REPORT NUMBER: 208-MGA-2004-005

VEHICLE SAFETY COMPLIANCE TESTING FOR
FMVSS 208, OCCUPANT CRASH PROTECTION
FMVSS 212, WINDSHIELD MOUNTING
FMVSS 219, WINDSHIELD INTRUSION (PARTIAL)
FMVSS 301, FUEL SYSTEM INTEGRITY

Toyota Motor Corp.
2004 Lexus RX330 MPV
NHTSA No.: C45102

PREPARED BY:
MGA RESEARCH CORPORATION
5000 WARREN ROAD
BURLINGTON, WI 53105

Test Dates: April 1 – June 3, 2004
Final Report Date: October 5, 2004

FINAL REPORT

PREPARED FOR:
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
OFFICE OF ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
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Prepared by: _____________________________  Date:  October 5, 2004
Jeff Lewandowski, Project Engineer

Reviewed by: _____________________________  Date:  October 5, 2004
David Winkelbauer, Facility Director

FINAL REPORT ACCEPTED BY OVSC:

Accepted By: __________________________________

Acceptance Date: ______________________________
**Abstract**

Compliance tests were conducted on the subject 2004 Lexus RX330 in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP208-12 for the determination of FMVSS 208 compliance. Test failures identified were as follows:

**TEST FAILURES:**

None

**Key Words**

Frontal Impact
40 kmph Vehicle Safety Compliance Testing
FMVSS 208, “Occupant Crash Protection”
FMVSS 212, “Windshield Mounting”
FMVSS 219, (partial), “Windshield Zone Intrusion”
FMVSS 301, “Fuel System Integrity”

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SECTION 1
PURPOSE OF COMPLIANCE TEST

This Federal Motor Vehicle Safety Standard (FMVSS) 208 compliance test is part of a program conducted for the National Highway Traffic Safety Administration (NHTSA) by MGA Research Corporation (MGA) under Contract No. DTNH22-03-D-11002. The purpose of this test was to determine whether the subject vehicle, a 2004 Lexus RX330, NHTSA No. C45102, meets certain performance requirements of FMVSS 208, "Occupant Crash Protection"; FMVSS 212, "Windshield Mounting"; FMVSS 219, "Windshield Zone Intrusion"; and FMVSS 301, "Fuel System Integrity". The compliance test was conducted in accordance with OVSC Laboratory Test Procedure No. TP208-12 dated January 14, 2003.
SECTION 2
TESTS PERFORMED

Test Vehicle: 2004 Lexus RX330  
NHTSA No.: C45102  
Test Program: FMVSS 208 Compliance  
Test Dates: 4/01-6/03/04

The following checked items indicate the tests that were performed:

1. Rear outboard seating position seat belts (S4.1.1.2(b) & (S4.2.4)
2. Air bag labels (S4.5.1)
3. Readiness indicator (S4.5.2)
4. Passenger air bag manual cut-off device (S4.5.4)
5. Lap belt lockability (S7.1.1.5)
6. Seat belt warning system (S7.3)
7. Seat belt contact force (S7.4.4)
8. Seat belt latch plate access (S7.4.4)
9. Seat belt retraction (S7.4.5)
10. Seat belt guides and hardware (S7.4.6)
11. Suppression tests with 12-month-old CRABI dummy (Part 572, Subpart R)
12. Suppression tests with newborn infant (Part 572, Subpart K)
13. Suppression tests with 3-year-old dummy (Part 572, Subpart P)
14. Suppression tests with 6-year-old dummy (Part 572, Subpart N)
15. Test of reactivation of the passenger air bag system with an unbelted 5th percentile female dummy
16. Low risk deployment test with 12-month-old dummy (Part 572, Subpart R)
17. Low risk deployment test with 3-year-old dummy (Part 572, Subpart P)
18. Low risk deployment test with 6-year-old dummy (Part 572, Subpart N)
19. Low risk deployment test with 5th female dummy (Part 572, Subpart O)
20. Impact Tests

Frontal Oblique

- Belted 50th male dummy driver and passenger (0 to 48 kmph)  
  (S5.1.1(a))
- Unbelted 50th male dummy driver and passenger (0 to 48 kmph)  
  (S5.1.2(a)(1))
- Unbelted 50th male dummy driver and passenger (32 to 40 kmph)  
  (S5.1.2(a)(1) or S5.1.2(b))

Frontal 0°

- Belted 50th male dummy driver (0 to 48 kmph) (S5.1.1.(b)(1) or  
  S5.1.1(a))
- Belted 50th male dummy passenger (0 to 48 kmph) (S5.1.1.(b)(1)  
  or S5.1.1(a))
- Belted 5th female dummy driver (0 to 48 kmph) (S16.1(a))
- Belted 5th female dummy passenger (0 to 48 kmph) (S16.1(a))
- Belted 50th male dummy driver and passenger (0 to 56 kmph)  
  (S5.1.1.(b)(2))
- Unbelted 50th male dummy driver and passenger (0 to 48 kmph)  
  (S5.1.2(a)(1))
- Unbelted 50th male dummy driver (32 to 40 kmph) (S5.1.2.(a)(2) or  
  S5.1.2(b))
- Unbelted 50th male dummy passenger (32 to 40 kmph)  
  (S5.1.2.(a)(2) or S5.1.2(b))
For the crash tests, the vehicle was instrumented with 8 accelerometers. The accelerometer data from the vehicle and dummies were sampled at 10,000 samples per second and processed as specified in SAE J211/1 MAR95 and FMVSS 208, S4.13.

The dynamic tests were recorded using high-speed film and high-speed digital video.

The vehicle appears to meet all of the performance requirements to which it was tested.
SECTION 3

INJURY RESULT SUMMARY FOR FMVSS 208 TESTS

Test Vehicle: 2004 Lexus RX330
Test Program: FMVSS 208 Compliance
NHTSA No.: C45102
Test Dates: 4/15/-4/29/04

5th Percentile Female Low Risk Deployments

<table>
<thead>
<tr>
<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Measured Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIC15</td>
<td>700</td>
<td>36</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.3</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>60.9</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.3</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>50.7</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>1.3</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>16.8</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2070 N</td>
<td>896</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>43</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>13</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>6</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>58</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>52</td>
</tr>
</tbody>
</table>

Second stage fire time of 30 ms; Injuries calculated on 0 ms to 155 ms

<table>
<thead>
<tr>
<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Measured Value</th>
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<tbody>
<tr>
<td>HIC15</td>
<td>700</td>
<td>160</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.8</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>48.7</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.4</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>77.7</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>12.4</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
<td>1.0</td>
<td>0.3</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>79.8</td>
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<tr>
<td>Neck Tension</td>
<td>2070 N</td>
<td>1014</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>220</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>11</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>21</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>130</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>173</td>
</tr>
</tbody>
</table>

Second stage fire time of 30 ms; Injuries calculated on 0 ms to 155 ms
SECTION 3...(continued)

INJURY RESULT SUMMARY FOR FMVSS 208 TESTS

Test Vehicle: 2004 Lexus RX330
Test Program: FMVSS 208 Compliance
NHTSA No.: C45102
Test Date: 06/03/04

40 kmph Frontal Crash

Impact Angle: Zero degrees

Belted Dummies: _X_ Yes (Rear Passenger) _X_ No (Driver and Front Passenger)
Speed Range: ___ 0 to 40 kmph _X_ 32 to 40 kmph
___ 0 to 48 kmph ___ 0 to 56 kmph

Test Speed: 39.6 kmph Test Weight: 2060.7 kg

Driver Dummy: _X_ 5th female ___ 50th male
Passenger Dummy: _X_ 5th female ___ 50th male
Center Rear Passenger Dummy: ___ 5th female _X_ 50th male

5th Percentile Female Frontal Crash Test
Vehicles certified to S16.1(a), S16.1(b), or S18.1

<table>
<thead>
<tr>
<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Driver</th>
<th>Passenger</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIC15</td>
<td>700</td>
<td>51</td>
<td>91</td>
</tr>
<tr>
<td>N_{te}</td>
<td>1.0</td>
<td>0.4</td>
<td>0.2</td>
</tr>
<tr>
<td>N_{tf}</td>
<td>1.0</td>
<td>0.1</td>
<td>0.4</td>
</tr>
<tr>
<td>N_{ne}</td>
<td>1.0</td>
<td>0.1</td>
<td>0.3</td>
</tr>
<tr>
<td>N_{nf}</td>
<td>1.0</td>
<td>0.1</td>
<td>0.6</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2620 N</td>
<td>965</td>
<td>528</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>244</td>
<td>838</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>40</td>
<td>33</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>23</td>
<td>6</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>2490</td>
<td>4107</td>
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<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>4653</td>
<td>4977</td>
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50th Percentile Male Center Rear Passenger Frontal Crash Test

<table>
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<tr>
<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Center Rear Passenger</th>
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<tbody>
<tr>
<td>HIC15</td>
<td>700</td>
<td>414</td>
</tr>
<tr>
<td>N_{te}</td>
<td>1.0</td>
<td>0.5</td>
</tr>
<tr>
<td>N_{tf}</td>
<td>1.0</td>
<td>0.7</td>
</tr>
<tr>
<td>N_{ne}</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>N_{nf}</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>4170 N</td>
<td>2323</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>4000 N</td>
<td>50</td>
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<tr>
<td>Chest g</td>
<td>60 g</td>
<td>37</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>63 mm</td>
<td>27</td>
</tr>
<tr>
<td>Left Femur</td>
<td>10,000 N</td>
<td>44</td>
</tr>
<tr>
<td>Right Femur</td>
<td>10,000 N</td>
<td>4</td>
</tr>
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SECTION 4
DISCUSSION OF TESTS

Test Vehicle: 2004 Lexus RX330
Test Program: FMVSS 208 Compliance
NHTSA No.: C45102
Test Date: 4/01-6/03/04

The vehicle met all tested performance requirements.

A blanket and visor were not used in the suppression testing because they did not affect the weight sensing system used on the vehicle.

Empty seat detection during Suppression testing was performed with the Toyota ODB II diagnostic tool.

A 50th percentile dummy (S/N 401) was positioned as a Center Rear Passenger during the 25 mph frontal crash test. Two MHD sensors were used to measure dynamic center rear seatback rotation during the crash event.

There were no other unexpected events or items to discuss.
<table>
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<th>Test Vehicle:</th>
<th>2004 Lexus RX330</th>
<th>NHTSA No.:</th>
<th>C45102</th>
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<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
<td>Test Dates:</td>
<td>4/01-6/03/04</td>
</tr>
</tbody>
</table>
DATA SHEET 1
COTR VEHICLE WORK ORDER

Test Vehicle: 2004 Lexus RX330
Test Program: FMVSS 208 Compliance
COTR Signature: Charles R. Case

NHTSA No.: C45102
Test Dates: 4/01-6/03/04

Test to be performed for this vehicle are checked below:

1. Rear Outboard Seating Position Seat Belts (S4.1.2(b)) & (S4.2.4)
2. Air Bag Labels (S4.5.1)
3. Readiness Indicator (S4.5.2)
4. Passenger Air Bag Manual Cut-off Device (S4.5.4)
5. Lap Belt Lockability (S7.1.1.5)
6. Seat Belt Warning System (S7.3)
7. Seat Belt Contact Force (S7.4.4)
8. Seat Belt Latch Plate Access (S7.4.5)
9. Seat Belt Retraction (S7.4.6)
10. Seat Belt Guides and Hardware (S7.4.6)
11. Suppression tests with 12-month-old CRABI dummy (Part 572, Subpart R) using the following indicated child restraints.
   Section B
   - Britax Handle with Care 191
     Full Rearward X Mid Position X Full Forward
   - Century Assura 4553
     Full Rearward X Mid Position X Full Forward
   - Century Avanta SE 41530
     Full Rearward X Mid Position X Full Forward
   - Century Smart Fit 4543
     Full Rearward X Mid Position X Full Forward
   - Cosco Arriva 02727
     Full Rearward X Mid Position X Full Forward
   - Cosco Opus 35 02603
     Full Rearward X Mid Position X Full Forward
   - Evenflo Discovery Adjust Right 212
     Full Rearward X Mid Position X Full Forward
   - Evenflo First Choice 204
     Full Rearward X Mid Position X Full Forward
   - Evenflo On My Way Position Right V 282
     Full Rearward X Mid Position X Full Forward
   - Graco Infant 8457
     Full Rearward X Mid Position X Full Forward
   Section C
   - Britax Roundabout 161
     Full Rearward X Mid Position X Full Forward
   - Century Encore 4612
     Full Rearward X Mid Position X Full Forward
   - Century STE 1000 4416
     Full Rearward X Mid Position X Full Forward
   - Cosco Olympian 02803
     Full Rearward X Mid Position X Full Forward
   - Cosco Touriva 02519
     Full Rearward X Mid Position X Full Forward
   - Evenflo Horizon V 425
     Full Rearward X Mid Position X Full Forward
   - Evenflo Medallion 254
     Full Rearward X Mid Position X Full Forward
12. Suppression tests with newborn infant (Part 572, Subpart K) using the following indicated child restraints.
   Section A
   - Cosco Dream Ride 02-719
     Full Rearward X Mid Position X Full Forward
13. Suppression tests with 3-year-old dummy (Part 572, Subpart P) using the following indicated child restraints where a child restraint is required.
<table>
<thead>
<tr>
<th>Section C</th>
<th>Britax Roundabout 161</th>
<th>Full Rearward</th>
<th>X</th>
<th>Mid Position</th>
<th>X</th>
<th>Full Forward</th>
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<tbody>
<tr>
<td>X</td>
<td>Century Encore 4612</td>
<td>Full Rearward</td>
<td>X</td>
<td>Mid Position</td>
<td>X</td>
<td>Full Forward</td>
</tr>
<tr>
<td>X</td>
<td>Century STE 1000 4416</td>
<td>Full Rearward</td>
<td>X</td>
<td>Mid Position</td>
<td>X</td>
<td>Full Forward</td>
</tr>
<tr>
<td>X</td>
<td>Cosco Olympian 02803</td>
<td>Full Rearward</td>
<td>X</td>
<td>Mid Position</td>
<td>X</td>
<td>Full Forward</td>
</tr>
<tr>
<td>X</td>
<td>Cosco Touriva 02519</td>
<td>Full Rearward</td>
<td>X</td>
<td>Mid Position</td>
<td>X</td>
<td>Full Forward</td>
</tr>
<tr>
<td>X</td>
<td>Evenflo Horizon V 425</td>
<td>Full Rearward</td>
<td>X</td>
<td>Mid Position</td>
<td>X</td>
<td>Full Forward</td>
</tr>
<tr>
<td>X</td>
<td>Evenflo Medallion 254</td>
<td>Full Rearward</td>
<td>X</td>
<td>Mid Position</td>
<td>X</td>
<td>Full Forward</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section D</th>
<th>Britax Roadster 9004</th>
<th>Full Rearward</th>
<th>X</th>
<th>Mid Position</th>
<th>X</th>
<th>Full Forward</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Century Next Step 4920</td>
<td>Full Rearward</td>
<td>X</td>
<td>Mid Position</td>
<td>X</td>
<td>Full Forward</td>
</tr>
<tr>
<td>X</td>
<td>Cosco High Back Booster 02-442</td>
<td>Full Rearward</td>
<td>X</td>
<td>Mid Position</td>
<td>X</td>
<td>Full Forward</td>
</tr>
<tr>
<td>X</td>
<td>Evenflo Right Fit 245</td>
<td>Full Rearward</td>
<td>X</td>
<td>Mid Position</td>
<td>X</td>
<td>Full Forward</td>
</tr>
</tbody>
</table>

14. Suppression tests with representative 3-year-old child using the following indicated child restraints where a child restraint is required. (Appendix H, Data Sheet 16H and 17H)

<table>
<thead>
<tr>
<th>Section C</th>
<th>Britax Roundabout 161</th>
<th>Full Rearward</th>
<th>X</th>
<th>Mid Position</th>
<th>X</th>
<th>Full Forward</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Century Encore 4612</td>
<td>Full Rearward</td>
<td>X</td>
<td>Mid Position</td>
<td>X</td>
<td>Full Forward</td>
</tr>
<tr>
<td>X</td>
<td>Century STE 1000 4416</td>
<td>Full Rearward</td>
<td>X</td>
<td>Mid Position</td>
<td>X</td>
<td>Full Forward</td>
</tr>
<tr>
<td>X</td>
<td>Cosco Olympian 02803</td>
<td>Full Rearward</td>
<td>X</td>
<td>Mid Position</td>
<td>X</td>
<td>Full Forward</td>
</tr>
<tr>
<td>X</td>
<td>Cosco Touriva 02519</td>
<td>Full Rearward</td>
<td>X</td>
<td>Mid Position</td>
<td>X</td>
<td>Full Forward</td>
</tr>
<tr>
<td>X</td>
<td>Evenflo Horizon V 425</td>
<td>Full Rearward</td>
<td>X</td>
<td>Mid Position</td>
<td>X</td>
<td>Full Forward</td>
</tr>
<tr>
<td>X</td>
<td>Evenflo Medallion 254</td>
<td>Full Rearward</td>
<td>X</td>
<td>Mid Position</td>
<td>X</td>
<td>Full Forward</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section D</th>
<th>Britax Roadster 9004</th>
<th>Full Rearward</th>
<th>X</th>
<th>Mid Position</th>
<th>X</th>
<th>Full Forward</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Century Next Step 4920</td>
<td>Full Rearward</td>
<td>X</td>
<td>Mid Position</td>
<td>X</td>
<td>Full Forward</td>
</tr>
<tr>
<td>X</td>
<td>Cosco High Back Booster 02-442</td>
<td>Full Rearward</td>
<td>X</td>
<td>Mid Position</td>
<td>X</td>
<td>Full Forward</td>
</tr>
<tr>
<td>X</td>
<td>Evenflo Right Fit 245</td>
<td>Full Rearward</td>
<td>X</td>
<td>Mid Position</td>
<td>X</td>
<td>Full Forward</td>
</tr>
</tbody>
</table>

15. Suppression tests with 3-year-old dummy (Part 572, Subpart P) in the following Forward, Middle, and Rearward seat track positions

| X                         | Sitting on seat with back against seat back (S22.2.2.1) |
| X                         | Sitting on seat with back against reclined seat back (S22.2.2.2) |
| X                         | Sitting on seat with back not against seat back (S22.2.2.3) |
| X                         | Sitting on seat edge, spine vertical, hands by the child’s side (S22.2.2.4) |
| X                         | Standing on seat, facing forward (S22.2.2.5) |
| X                         | Kneeling on seat facing forward (S22.2.2.6) |
| X                         | Kneeling on seat facing rearward (S22.2.2.7) |
| X                         | Lying on seat (S22.2.2.8) |

16. Suppression tests with representative 3-year-old child in the following positions

| X                         | Sitting on seat with back against seat back (S22.2.2.1) |
| X                         | Sitting on seat with back against reclined seat back (S22.2.2.2) |
| X                         | Sitting on seat with back not against seat back (S22.2.2.3) |
| X                         | Sitting on seat edge, spine vertical, hands by the child’s side (S22.2.2.4) |
| X                         | Standing on seat, facing forward (S22.2.2.5) |
| X                         | Kneeling on seat facing forward (S22.2.2.6) |
| X                         | Kneeling on seat facing rearward (S22.2.2.7) |
| X                         | Lying on seat (S22.2.2.8) |

17. Suppression tests with 6-year-old dummy (Part 572, Subpart N) using the following indicated child restraints where a child restraint is required.
18. Suppression tests with representative 6-year-old child using the following indicated child restraints where a child restraint is required.

<table>
<thead>
<tr>
<th>Section D</th>
<th>Britax Roadster 9004</th>
<th>Full Rearward</th>
<th>Mid Position</th>
<th>Full Forward</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Century Next Step 4920</td>
<td>Full Rearward</td>
<td>Mid Position</td>
<td>Full Forward</td>
</tr>
<tr>
<td></td>
<td>Cosco High Back Booster 02-442</td>
<td>Full Rearward</td>
<td>Mid Position</td>
<td>Full Forward</td>
</tr>
<tr>
<td></td>
<td>Evenflo Right Fit 245</td>
<td>Full Rearward</td>
<td>Mid Position</td>
<td>Full Forward</td>
</tr>
</tbody>
</table>

19. Suppression tests with 6-year-old dummy (Part 572, Subpart N) in the following Forward, Middle, and Rearward seat track positions:

- Sitting on seat with back against seat back (S22.2.2.1)
- Sitting on seat with back against reclined seat back (S22.2.2.2)
- Sitting on seat edge, spine vertical, hands by the child’s side (S22.2.2.4)
- Sitting back in the seat and leaning on the right front passenger door (S24.2.3)

20. Suppression tests with representative 6-year-old child in the following positions:

- Sitting on seat with back against seat back (S22.2.2.1)
- Sitting on seat with back against reclined seat back (S22.2.2.2)
- Sitting on seat edge, spine vertical, hands by the child’s side (S22.2.2.4)
- Sitting back in the seat and leaning on the right front passenger door (S24.2.3)

21. Test of Reactivation of the Passenger Air Bag System with an Unbelted 5th percentile female dummy (S20.3, 22.3, S24.3). Perform this test after the following suppression tests: After each restraint.

22. Test of Reactivation of the passenger air bag system with a representative 5th percentile female (S20.3, 22.3, S24.3). Perform this test after the following suppression tests:

23. Low risk deployment test with 12-month-old dummy (Part 572, Subpart R) using the following indicated child restraints.
24. Low risk deployment test with 3-year-old dummy (Part 572, Subpart P) in the following positions
   - Position 1
   - Position 2

25. Low risk deployment test with 6-year-old dummy (Part 572, Subpart N) in the following positions
   - Position 1
   - Position 2

26. Low risk deployment test with 5th percentile female dummy (Part 572, Subpart O) in the following positions
   - Position 1
   - Position 2

27. Impact Tests
   - Frontal Oblique – Test Speed:
     - Belted 50th male dummy driver and passenger (0 to 48 kmph) (S5.1.1(a))
     - Unbelted 50th male dummy driver and passenger (0 to 48 kmph) (S5.1.2(a)(1))
     - Unbelted 50th male dummy driver and passenger (32 to 40 kmph) (S5.1.2(a) (1) or S5.1.2(b))

   - Frontal 0° - Test Speed: 39.6 kmph
     - Belted 50th male dummy driver (0 to 48 kmph) (S5.1.1.(b)(1) or S5.1.1(a))
     - Belted 50th male dummy passenger (0 to 48 kmph) (S5.1.1.(b)(1) or S5.1.1(a))
     - Belted 5th female dummy driver (0 to 48 kmph) (S16.1(a))
     - Belted 5th female dummy passenger (0 to 48 kmph) (S16.1(a))
     - Belted 50th male dummy driver and passenger (0 to 56 kmph) (S5.1.1.(b)(2))
     - Unbelted 50th male dummy driver and passenger (0 to 48 kmph) (S5.1.2(a) (1))
     - Unbelted 50th male dummy driver (32 to 40 kmph) (S5.1.2.(a)(2) or S5.1.2(b))
     - Unbelted 50th male dummy passenger (32 to 40 kmph) (S5.1.2.(a)(2) or S5.1.2(b))
     - Unbelted 5th female dummy driver (32 to 40 kmph) (S16.1(b))
     - Unbelted 5th female dummy passenger (32 to 40 kmph) (S16.1(b))
     - 40% Offset 0° Belted 5th male dummy driver and passenger (0 to 40 kmph) (S18.1)

   - Test Speed:

28. Sled Test: Unbelted 50th male dummy driver and passenger (S13)

29. FMVSS 204 Indicant Test

30. FMVSS 212 Indicant Test

31. FMVSS 219 Indicant Test

32. FMVSS 301 Indicant Frontal Test
## DATA SHEET 2
### REPORT OF VEHICLE CONDITION

<table>
<thead>
<tr>
<th>Test Vehicle:</th>
<th>2004 Lexus RX330</th>
<th>NHTSA No.:</th>
<th>C45102</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
<td>Test Dates:</td>
<td>4/01-6/03/04</td>
</tr>
</tbody>
</table>

**CONTRACT NO.** DTNH22-03-D-11002  
**Date:** 6/10/04  
**FROM (Lab and rep name):** MGA Research Corporation  
**TO:** NHTSA, OVSC (NVS-220)

**PURPOSE:** (X) Initial Receipt   (   ) Received via Transfer   (X ) Present vehicle condition

### MODEL YEAR/MAKE/MODEL/BODY STYLE:

| 2004 Lexus RX330 |

### MANUFACTURE DATE:

| 10/03 |

### NHTSA NO.:

| C45102 |

### GVWR:

| 2380 kg (5245 lbs) |

### BODY COLOR:

| Crystal White |

### VIN:

| JTJHA31U940045394 |

### GAWR (Fr):

| 1300 kg (2865 lbs) |

### GAWR (Rr):

| 1300 kg (2865 lbs) |

### ODOMETER READINGS:

| ARRIVAL (miles): 91 | DATE: 1/16/04 |
| COMPLETION (miles): 96 | DATE: 6/03/04 |

### PURCHASE PRICE:

| ($) 37,153 |

### DEALER'S NAME:

| Lexus of Highland Park; 3840 Skokie Valley Rd.; Highland Park, IL 60035 |

### A. All options listed on window sticker are present on the test vehicle:

| _X_ Yes   ___No |

### B. Tires and wheel rims are new and the same as listed:

| _X_ Yes   ___No |

### C. There are no dents or other interior or exterior flaws:

| _X_ Yes   ___No |

### D. The vehicle has been properly prepared and is in running condition:

| _X_ Yes   ___No |

### E. Keyless remote is available and working:

| _X_ Yes   ___No |

### F. The glove box contains an owner's manual, warranty document, consumer information, and extra set of keys:

| _X_ Yes   ___No |

### G. Proper fuel filler cap is supplied on the test vehicle:

| _X_ Yes   ___No |

### H. Using permanent marker, identify vehicle with NHTSA number and FMVSS test type(s) on roof line above driver door or for school buses, place a placard with NHTSA number inside the windshield and to the exterior front and rear side of bus:

| _X_ Yes   ___No |

### I. Place vehicle in storage area:

| _X_ Yes   ___No |

### J. Inspect the vehicle’s interior and exterior, including all windows, seats, doors, etc. to confirm that each system is complete and functional per the manufacturer’s specifications. Any damage, misadjustment, or other unusual condition that could influence the test program or test results shall be recorded. Report any abnormal condition to the NHTSA COTR before beginning any test:

| _X_ Vehicle OK   ___Conditions reported below |

Test Vehicle: 2004 Lexus RX330  
Test Program: FMVSS 208 Compliance  
NHTSA No.: C45102  
Test Dates: 4/01-6/03/04
REPORT OF VEHICLE CONDITION AT THE COMPLETION OF TESTING

LIST OF FMVSS TESTS PERFORMED BY THIS LAB: FMVSS 208, 212, 219, 301
VEHICLE: 2004 Lexus RX330
NHTSA NO. C45102

REMARKS:

Equipment that is no longer on the test vehicle as noted on previous page:
Rear Combination lamp (fender and luggage door side), tool & jack, both outside mirrors,
luggage door inner trim, luggage room side trim lower, deck board & tray, luggage cover, spare
tire, spare tire cover, hub covers, rear wiper motor, and rear most part of exhaust The EDR was
removed.

Explanation for equipment removal:
Components removed for instrumentation installation and to meet target weight. The EDR was
sent to Rowan University in New Jersey for analysis.

Test Vehicle Condition:
25 mph frontal impact damage- front suspension & structure damaged, hood & front quarter
panels damaged, radiator damaged, air bags & pretensioners deployed, Stoddard in fuel system

RECORDED BY: Jeff Lewandowski
DATE: 6/10/2004
APPROVED BY: David Winkelbauer
DATE: 6/10/2004

# # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #

RELEASE OF TEST VEHICLE
The vehicle described above is released from MGA to be delivered to:

Date:  
Time:  
Odometer:  
Lab Rep’s Signature:  
Title:  
Carrier/Customer Rep:  
Date:  

13
**DATA SHEET 3**

**CERTIFICATION LABEL AND TIRE PLACARD INFORMATION**

<table>
<thead>
<tr>
<th>Test Vehicle</th>
<th>2004 Lexus RX330</th>
<th>NHTSA No.:</th>
<th>C45102</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Program</td>
<td>FMVSS 208 Compliance</td>
<td>Test Date:</td>
<td>6/03/04</td>
</tr>
<tr>
<td>Test Technician</td>
<td>Clark Subrt</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Certification Label</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Manufacturer:</strong></td>
</tr>
<tr>
<td><strong>Date of Manufacture:</strong></td>
</tr>
<tr>
<td><strong>VIN:</strong></td>
</tr>
<tr>
<td><strong>Vehicle Certified As:</strong></td>
</tr>
<tr>
<td><strong>Front Axle GVWR:</strong></td>
</tr>
<tr>
<td><strong>Rear Axle GVWR:</strong></td>
</tr>
<tr>
<td><strong>Total GVWR:</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Tire Placard</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Not applicable, vehicle is not a passenger car and does not have a tire placard.</strong></td>
</tr>
<tr>
<td><strong>This is not a passenger car, but all or part of this information is still contained on a vehicle label and is reported here.</strong></td>
</tr>
<tr>
<td><strong>Vehicle Capacity Weight:</strong></td>
</tr>
<tr>
<td><strong>Designated Seating Capacity Front:</strong></td>
</tr>
<tr>
<td><strong>Designated Seating Capacity Rear:</strong></td>
</tr>
<tr>
<td><strong>Total Designated Seating Capacity:</strong></td>
</tr>
<tr>
<td><strong>Recommended Cold Tire Inflation Pressure Front:</strong></td>
</tr>
<tr>
<td><strong>Recommended Cold Tire Inflation Pressure Rear:</strong></td>
</tr>
<tr>
<td><strong>Recommended Tire Size:</strong></td>
</tr>
</tbody>
</table>

**Signature:**

**Date:** 06/03/04
### DATA SHEET 4

**REAR OUTBOARD SEATING POSITION SEAT BELTS**

<table>
<thead>
<tr>
<th>Test Vehicle:</th>
<th>2004 Lexus RX330</th>
<th>NHTSA No.:</th>
<th>C45102</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
<td>Test Date:</td>
<td>4/01/04</td>
</tr>
<tr>
<td>Test Technician:</td>
<td>Wayne Dahlke</td>
<td>Test Date:</td>
<td>4/01/04</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do all rear outboard seating positions have Type 2 seat belts?</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

If NO, describe the seat belt installed, the seat location, and any other information about the seat that would explain why a Type 2 seat belt was not installed.

**REMARKS:** NONE

Signature: [Signature]

Date: 04/01/04
DATA SHEET 5
AIR BAG LABELS (S4.5.1)

Test Vehicle: 2004 Lexus RX330  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke  
NHTSA No.: C45102  
Test Date: 4/01/04

1. Air bag maintenance label and owner’s manual instructions: (S4.5.1(a))
   1.1 Does the manufacturer recommend periodic maintenance or replacement of the air bag?
      - Yes, go to 1.2
      - No – go to 2
   1.2 Does the vehicle have a label specifying air bag maintenance or replacement?
      - Yes – Pass
      - No – Fail
   1.3 Does the label contain one of the following?
      - Yes – Pass
      - No – Fail
      Check applicable schedule:
      - Schedule on label specifies month and year (Record date______)
      - Schedule on label specified vehicle mileage (Record mileage______)
      - Schedule on label specifies interval measured from date on certification label
        (Record interval______)
   1.4 Is the label permanently affixed within the passenger compartment such that it cannot be removed without destroying or defacing the label or the sunvisor?
      - Yes – Pass
      - No – Fail
   1.5 Is the label lettered in English?
      - Yes – Pass
      - No – Fail
   1.6 Is the label in block capitals and numerals?
      - Yes – Pass
      - No – Fail
   1.7 Are the letters and numerals at least 3/32 inches high?
      - Yes – Pass
      - No – Fail
   1.8 Does the owner’s manual set forth the recommended schedule for maintenance or replacement?
   2. Does the owner’s manual: (S4.5.1(f))
      2.1 Include a description of the vehicle’s air bag system in an easily understandable format?
         - Yes – Pass
         - No – Fail
      2.2 Include a statement that the vehicle is equipped with an air bag and a lap/shoulder belt at the front outboard seating position?
         - Yes – Pass
2.3 Include a statement that the air bag is a supplement restraint at the front outboard seating position?
- Yes – Pass
- No – Fail

2.4 Emphasize that all occupants, including the driver, should always wear their seat belts whether or not an air bag is also provided at their seating positions to minimize the risk of severe injury or death in the event of a crash?
- Yes – Pass
- No – Fail

2.5 Provide any necessary precautions regarding the proper positioning of occupants, including children, at seating positions equipped with air bags to ensure maximum safety protection for those occupants?
- Yes – Pass
- No – Fail

2.6 Explain that no objects should be placed over or near the air bag on the steering wheel or on the instrument panel, because any such objects could cause harm if the vehicle is in a crash severe enough to cause the air bag to inflate?
- Yes – Pass
- No – Fail

2.7 Is the vehicle certified to meet the requirements of S14.5, S15, S17, S19, S21, S23, and S25? (Obtain answer from COTR) (S4.5.1(f)(2))
- Yes – (Go to 2.7.1)
- No – (Go to 3.)

2.7.1 Explain the proper functioning of the advanced air bag system? (S4.5.1(f)(2))
- Yes – Pass
- No – Fail

2.7.2 Provide a summary of the actions that may affect the proper functioning of the system? (S4.5.1(f)(2))
- Yes – Pass
- No – Fail

2.7.3 Present and explain the main components of the advanced passenger air bag system? (S4.5.1(f)(2)(i))
- Yes – Pass
- No – Fail

2.7.4 Explain how the components function together as part of the advanced passenger air bag system? (S4.5.1(f)(2)(ii))
- Yes – Pass
- No – Fail

2.7.5 Contain the basic requirements for proper operation, including an explanation of the actions that may affect the proper functioning of the system? (S4.5.1(f)(2)(iii))
- Yes – Pass
- No – Fail

2.7.6 Is the vehicle certified to the requirements of S19.2, S21.2, or 23.2 (automatic suppression)?
- Yes, continue with 2.7.6
- No, go to 2.7.7
2.7.6.1 Contain a complete description of the passenger air bag suppression system installed in the vehicle, including a discussion of any suppression zone? (S4.5.1(f)(2)(iv))

- Yes – Pass
- No – Fail

2.7.6.2 Discuss the telltale light, specifying its location in the vehicle and explaining when the light is illuminated?

- Yes – Pass
- No – Fail

2.7.7 Explain the interaction of the advanced passenger air bag system with other vehicle components, such as seat belts, seats or other components? (S4.5.1(f)(2)(v))

- Yes – Pass
- No – Fail

2.7.8 Summarize the expected outcomes when child restraint systems, children and small teenagers or adults are both properly and improperly positioned in the passenger seat, including cautionary advice against improper placement of child restraint systems? (S4.5.1(f)(2)(vi))

- Yes – Pass
- No – Fail

2.7.9 Provide information on how to contact the vehicle manufacturer concerning modifications for persons with disabilities that may affect the advanced air bag system? (S4.5.1(f)(2)(vii))

- Yes – Pass
- No – Fail

3. Sun Visor Air Bag Warning Label (S4.5.1(b)) Check only one of the following:

- The vehicle is not certified to meet the requirements of S19, S21, and S23 (Obtain answer from COTR) (S4.5.1(b)(1)) Go to 3.1 and skip 3.2 and 3.3
- The vehicle is certified to meet the requirements of S19, S21, and S23 before 9/1/03. (Obtain answer from COTR) (S4.5.1(b)(2)) Go to 3.2 and skip 3.1 and 3.3
- The vehicle is certified to meet the requirements of S19, S21, and S23 on 9/1/03 or later. (Obtain answer from COTR) (S4.5.1(b)(3)) Go to 3.3 and skip 3.1 and 3.2

3.1 Vehicles not certified to meet the requirements of S19, S21, and S23.

3.1.1 Is the label permanently affixed (including permanent marking on the visor material or molding into the visor material) to either side of the sun visor at each front outboard seating position such that it cannot be removed without destroying or defacing it? (S4.5.1(b)(1))

- Driver Side, Yes – Pass
- Driver Side, No – Fail
- Passenger Side, Yes – Pass
- Passenger Side, No – Fail
3.1.2 Does the label conform in content to the label shown in either Figure 6A or 6B (Figure 6b is for vehicles with passenger air bag on-off switches), as appropriate, at each front outboard seating position? (S4.5.1(b)(1)) (Vehicles without back seats may omit the statement: “The back seat is the safest place for children.” (S4.5.1(b)(1)(iv))

![Figure 6a](image)

![Figure 6b](image)

3.1.3 Is the label heading area yellow with the word “WARNING” and the alert symbol in black? (S4.5.1(b)(1)(i))

<table>
<thead>
<tr>
<th></th>
<th>Driver Side, Yes – Pass</th>
<th>Driver Side, No – Fail</th>
<th>Passenger Side, Yes – Pass</th>
<th>Passenger Side, No – Fail</th>
</tr>
</thead>
</table>

3.1.4 Is the message area white with black text? (S4.5.1(b)(1)(ii))

<table>
<thead>
<tr>
<th></th>
<th>Driver Side, Yes – Pass</th>
<th>Driver Side, No – Fail</th>
<th>Passenger Side, Yes – Pass</th>
<th>Passenger Side, No – Fail</th>
</tr>
</thead>
</table>
3.1.5 Is the message area at least 30 cm²? (S4.5.1(b)(1)(ii))
   Driver Side: Length______, Width________
   Passenger Side: Length______, Width________
   Actual message area _________ cm²
   □ Driver Side, Yes – Pass
   □ Driver Side, No – Fail
   □ Passenger Side, Yes – Pass
   □ Passenger Side, No – Fail

3.1.6 Is the pictogram black with a red circle and slash on a white background? (S4.5.1(b)(2)(iii))
   □ Driver Side, Yes – Pass
   □ Driver Side, No – Fail
   □ Passenger Side, Yes – Pass
   □ Passenger Side, No – Fail

3.1.7 Is the pictogram at least 30 mm in diameter? (S4.5.1(b)(2)(iii))
   Actual diameter__________mm
   □ Driver Side, Yes – Pass
   □ Driver Side, No – Fail
   □ Passenger Side, Yes – Pass
   □ Passenger Side, No – Fail

3.2 Vehicles certified to meet the requirements of S19, S21, and S23 before 9/1/03.
3.2.1 Is the label permanently affixed (including permanent marking on the visor material or molding into the visor material) to either side of the sun visor at each front outboard seating position such that it cannot be removed without destroying or defacing the label or the sun visor? (S4.5.1(b)(2))
   □ Driver Side, Yes – Pass
   □ Driver Side, No – Fail
   □ Passenger Side, Yes – Pass
   □ Passenger Side, No – Fail
3.2.2 Does the label conform in content to the label shown in either Figure 8 or 11 at each front outboard seating position? (S4.5.1(b)(2)) (Vehicles without back seats may omit the statement: “The back seat is the safest place for children.” (S4.5.1(b)(2)(iv)) Vehicles without back seats or the back seat is too small to accommodate a rear-facing child restraint may omit the statement “Never put a rear-facing child seat in the front.”(S4.5.1(b)(2)(v))

<table>
<thead>
<tr>
<th>Driver Side, Yes – Pass</th>
<th>Driver Side, No – Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passenger Side, Yes – Pass</td>
<td>Passenger Side, No – Fail</td>
</tr>
</tbody>
</table>

3.2.3 Is the label heading area yellow with the word “WARNING” and the alert symbol in black? (S4.5.1(b)(2)(i))

<table>
<thead>
<tr>
<th>Driver Side, Yes – Pass</th>
<th>Driver Side, No – Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passenger Side, Yes – Pass</td>
<td>Passenger Side, No – Fail</td>
</tr>
</tbody>
</table>

3.2.4 Is the message area white with black text? (S4.5.1(b)(2)(ii))

<table>
<thead>
<tr>
<th>Driver Side, Yes – Pass</th>
<th>Driver Side, No – Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passenger Side, Yes – Pass</td>
<td>Passenger Side, No – Fail</td>
</tr>
</tbody>
</table>
3.2.5 Is the message area at least 30 cm²? (S4.5.1(b)(2)(ii))

Driver Side: Length__________, Width__________
Passenger Side: Length__________, Width__________
Actual message area _____________ cm²

- Driver Side, Yes – Pass
- Driver Side, No – Fail
- Passenger Side, Yes – Pass
- Passenger Side, No – Fail

3.2.6 Is the pictogram black on a white background? (S4.5.1(b)(2)(iii))

- Driver Side, Yes – Pass
- Driver Side, No – Fail
- Passenger Side, Yes – Pass
- Passenger Side, No – Fail

3.2.7 Is the pictogram at least 30 mm (1.2 inches) in length? (S4.5.1(b)(2)(iii))

Driver Side: Length__________
Passenger Side: Length__________

- Driver Side, Yes – Pass
- Driver Side, No – Fail
- Passenger Side, Yes – Pass
- Passenger Side, No – Fail

3.3 Vehicles certified to meet the requirements of S19, S21, and S23 on 9/1/03 and later. (S4.5.1(b)(3))

3.3.1 Is the label permanently affixed (including permanent marking on the visor material or molding into the visor material) to either side of the sun visor at each front outboard seating position such that it cannot be removed without destroying or defacing the label or the sun visor? (S4.5.1(b)(3))

- Driver Side, Yes – Pass
- Driver Side, No – Fail
- Passenger Side, Yes – Pass
- Passenger Side, No – Fail

3.3.2 Does the label conform in content to the label shown in either Figure 11 at each front outboard seating position? (S4.5.1(b)(2)) (Vehicles without back seats may omit the statement: “The back seat is the safest place for children.” (S4.5.1(b)(3)(iv)) Vehicles without back seats or the back seat is too small to accommodate a rear-facing child restraint may omit the statement “Never put a rear-facing child seat in the front.” (S4.5.1(b)(3)(v))
3.3.3 Is the label heading area yellow with the word “WARNING” and the alert symbol in black? (S4.5.1(b)(3)(i))

- Driver Side, Yes – Pass
- Driver Side, No – Fail
- Passenger Side, Yes – Pass
- Passenger Side, No – Fail

3.3.4 Is the message area white with black text? (S4.5.1(b)(3)(ii))

- Driver Side, Yes – Pass
- Driver Side, No – Fail
- Passenger Side, Yes – Pass
- Passenger Side, No – Fail

3.3.5 Is the message area at least 30 cm²? (S4.5.1(b)(3)(ii))

- Driver Side: Length 12.1 cm, Width 3.3 cm
- Passenger Side: Length 12.1 cm, Width 3.3 cm
- Driver Actual message area 39.93 cm²
- Passenger Actual message area 39.93 cm²

3.3.6 Is the pictogram black on a white background? (S4.5.1(b)(3)(iii))

- Driver Side, Yes – Pass
- Driver Side, No – Fail
- Passenger Side, Yes – Pass
- Passenger Side, No – Fail

3.3.7 Is the pictogram at least 30 mm (1.2 inches) in length? (S4.5.1(b)(3)(iii))

- Driver Side: Length 31 mm
- Passenger Side: Length 31 mm
- Driver Side, Yes – Pass
3.4 Is the same side of the sun visor that contains the air bag warning label free of other information with the exception of the air bag maintenance label and/or the rollover-warning label? (S4.5.1(b)(5)(i))

Driver Side, Yes – Pass
Driver Side, No – Fail
Passenger Side, Yes – Pass
Passenger Side, No – Fail

3.5 Is the sun visor free of other information about air bags or the need to wear seat belts with the exception of the air bag alert label and/or the rollover-warning label? (S4.5.1(b)(5)(ii))

Driver Side, Yes – Pass
Driver Side, No – Fail
Passenger Side, Yes – Pass
Passenger Side, No – Fail

3.6 Does the driver side visor contain a rollover-warning label on the same side of the visor as the air bag warning label?
___ Yes, go to 3.6.1
___ No, go to 4 (skipping 3.6.1 through 3.6.3)

3.6.1 Are both the rollover-warning label and the air bag warning label surrounded by a continuous solid-lined border?
___ Yes, go to 3.6.2 and skip 3.6.3
___ No, go to 3.6.3 and skip 3.6.2

3.6.2 Is the shortest distance from the border of the rollover label to the border of the air bag warning label at least 1 cm? (575.105 (d)(1)(iv)(B))

___________ actual distance

3.6.3 Is the shortest distance from any of the lettering or graphics on the rollover-warning label to any of the lettering or graphics of the air bag warning label at least 3 cm? (575.105 (d)(1)(iv)(A))

___________ actual distance
_Yes-Pass _No-FAIL

4. Air Bag Alert Label (S4.5.1(c) (A “Rollover Warning Label” or “Rollover Alert Label” may be on the same side of the driver’s sun visor as the “Air Bag Alert Label.” 575.105(d))

4.1 Is the sun visor warning label visible when the sun visor is in the stowed position?
___ If yes for driver and passenger, go to 5.
___ Driver Side, Yes – Pass
___ Driver Side, No – Fail
4.2 Is the air bag alert label permanently affixed (including permanent marking on the visor material or molding into the visor material) to the sun visor at each front outboard seating position such that it cannot be removed without destroying or defacing the label or the sun visor? (S4.5.1(c))

4.3 Is the air bag alert label visible when the visor is in the stowed position? (S4.5.1(c))

4.4 Does the label conform in content to the label shown in Figure 6C? (S4.5.1(c))

4.5 Is the message area black with yellow text? (S4.5.1(c)(1)}
4.6 Is the message area at least 20 cm$^2$? (S4.5.1(c)(1))

Driver Side: Length 9.8cm, Width 3.0cm
Passenger Side: Length 9.8cm, Width 3.0cm
Actual message area 29.4 cm$^2$

- Driver Side, Yes – Pass
- Driver Side, No – Fail
- Passenger Side, Yes – Pass
- Passenger Side, No – Fail

4.7 Is the pictogram black with a red circle and slash on a white background? (S4.5.1(c)(2))

- Driver Side, Yes – Pass
- Driver Side, No – Fail
- Passenger Side, Yes – Pass
- Passenger Side, No – Fail

4.8 Is the pictogram at least 20 mm in diameter? (S4.5.1(c)(2))

Driver Side Diameter 21 mm
Passenger Side Diameter 21 mm

- Driver Side, Yes – Pass
- Driver Side, No – Fail
- Passenger Side, Yes – Pass
- Passenger Side, No – Fail

5. Label on the Dashboard

5.1 Is the vehicle certified to meet the requirements of S19, S21, and S23? (Obtain answer from COTR) (S4.5.1(3)(2))

- Yes, go to 5.1.1 and skip 5.2
- No, go to 5.2, skipping 5.1.1 through 5.1.6

5.1.1 Does the vehicle have a label on the dash or steering wheel hub? (S4.5.1(e)(2))

- Yes – Pass
- No – Fail

5.1.2 Is the label clearly visible from all front seating positions? (S4.5.1(e)(2))

- Yes – Pass
- No - Fail

5.1.3 Does the label conform in content to the label shown in Figure 9? (S4.5.1(e)(2))

Vehicles without back seats may omit the statement: “The back seat is the safest place for children.” (S4.5.1(e)(2)(iii))

- Yes – Pass
- No - Fail
5.1.4 Is the heading area yellow with black text? (S4.5.1(e)(2)(i))
- Yes – Pass
- No - Fail

5.1.5 Is the message white with black text? (S4.5.1(e)(2)(ii))
- Yes – Pass
- No - Fail

5.1.6 Is the message area at least 30 cm²? (S4.5.1(e)(2)(ii))
- Yes – Pass
- No - Fail

5.2 Does the vehicle have a label on the dash or steering wheel hub? (S4.5.1(e)(1))
- Yes – Pass
- No - Fail

5.2.1 Is the label clearly visible from all front seating positions? (S4.5.1(e)(1))
- Yes – Pass
- No - Fail

5.2.2 Does the label conform in content to the label shown in Figure 7? (S4.5.1(e)(1)(iii))
- Yes – Pass
- No - Fail
5.2.3 Is the heading area yellow with the word “WARNING” and the alert symbol in black? (S4.5.1(e)(1)(i))
- Yes – Pass
- No - Fail

5.2.4 Is the message white with black text? (S4.5.1(e)(1)(ii))
- Yes – Pass
- No - Fail

5.2.5 Is the message area at least 30 cm²? (S4.5.1(e)(1)(ii))
- Yes – Pass
- No - Fail

Length_______, Width_______
Actual message area __________ cm²

I certify that I have read and performed each instruction.

Signature: __________________________
Date:  04/01/04
DATA SHEET 6
FMVSS 208 READINESS INDICATOR (S4.5.2)

Test Vehicle: 2004 Lexus RX330  
NHTSA No.: C45102  
Test Program: FMVSS 208 Compliance  
Test Date: 4/01/04  
Test Technician: Wayne Dahlke

An occupant restraint system that deploys in the event of a crash shall have a monitoring system with a readiness indicator. A totally mechanical system is exempt from this requirement. (11/8/94 legal interpretation to Lawrence F. Hennegerger on behalf of Breed)

1. Is the system totally mechanical? If Yes, this data sheet is complete.
   - Yes
   - No

2. Describe the location of the readiness indicator: Top left side of instrument cluster

3. Is the readiness indicator clearly visible to the driver?
   - Yes – Pass
   - No - Fail

4. Is a list of the elements in the occupant restraint system, being monitored by the readiness indicator, provided on a label or in the owner’s manual?
   - Yes – Pass
   - No - Fail

5. Does the vehicle have an on-off switch for the passenger air bag?
   - If Yes, go to 6
   - If No, this form is complete.

6. Is the air bag readiness indicator off when the passenger air bag switch is in the off position?
   - Yes – Pass
   - No - Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]
Date: 04/01/04
DATA SHEET 7
PASSENGER AIR BAG MANUAL CUT-OFF DEVICE (S4.5.4)

1. Is the vehicle equipped with an on-off switch that deactivates the air bag installed at the right front outboard seating position?
   - Yes, go to 2
   - X No, this sheet is complete

2. Does the vehicle have any forward-facing rear designated seating positions? (S4.5.4(a))
   - Yes, go to 3
   - No, go to 4

3. Verification of the lack of room for a child restraint in the rear seat behind the driver’s seat. (S4.5.4(b))
   - 3.1 Position the seat’s adjustable lumbar supports to that the lumbar support is in its lowest, retracted or deflated adjustment position (S8.1.3)
     - N/A, no lumbar adjustment
   - 3.2 Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.02)
     - N/A, no additional support adjustment
   - 3.3 If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S16.2.10.3.1)
     - N/A, no independent fore-aft seat cushion adjustment
   - 3.4 If the seat cushion height adjusts independent of the seat back, set this adjustment to the full down position (S16.2.10.3.1)
     - N/A, no independent seat cushion height adjustment
   - 3.5 Put the seat in its full rearward position. (S16.2.10.3.1)
     - N/A, the seat does not have a fore-aft adjustment
   - 3.6 If the seat height is adjustable, put it in the full down position. (S16.2.10.3.1)
     - N/A, no seat height adjustment
   - 3.7 Draw a horizontal reference line on the side of the seat cushion.
   - 3.8 Using only the controls that change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward.
     - N/A – the seat does not have a fore-aft adjustment.
   - 3.9 Using only the controls that change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the middle fore-aft position. (S8.1.2)
     - N/A – the seat does not have fore-aft adjustment.

Test Vehicle: 2004 Lexus RX330
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke
Test Date: 4/01/04
NHTSA No.: C45102
Mid position
If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat:

3.10 If seat adjustments, other than fore-aft, are present and the horizontal reference line is no longer horizontal, use those adjustments to maintain the reference line as closely as possible to the horizontal.

N/A – No adjustments

Angle of reference line as tested:

3.11 The seat back angle, if adjustable, is set at the manufacturer’s nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S4.5.4.1 (b) and S8.1.3)

N/A – No seat back angle adjustment

Manufacturers design seat back angle:

Tested seat back angle:

3.12 Is the driver seat a bucket seat?

Yes, go to 3.12.1 and skip 3.12.2

No, go to 3.12.2 and skip 3.12.1

3.12.1 Bucket Seats:

3.12.1.1 Locate and mark a vertical Plane B through the longitudinal centerline of the seat driver’s seat cushion. (S22.2.1.3) The longitudinal centerline of a bucket seat cushion is determined at the widest part of the seat cushion. Measure perpendicular to the longitudinal centerline of the vehicle.

Record the width of the seat:

Record the distance from the edge of the seat to Plane B:

3.12.1.2 Locate the longitudinal horizontal line in plane B that is tangent to the highest point of the rear seat cushion behind the driver’s seat. Measure along this line from the front of the seat back of the rear seat to the rear of the seat back of the driver’s seat.

Distance (mm):

Less than 720 mm – Pass

More then 720 mm – Fail

Go to 4

3.12.2 Bench seats (including split bench seats):

3.12.2.1 Locate and mark a vertical Plane B through the center of the steering wheel parallel to the vehicle longitudinal centerline.

3.12.2.2 Locate the longitudinal horizontal line in plane B that is tangent to the highest point of the rear seat cushion. Measure along this line from the front of the seat back of the rear seat to the rear of the seat back of the front seat.

Distance (mm):

Less than 720 mm – Pass

More then 720 mm – Fail

Go to 4

4. Does the device turn the air bag on and off using the vehicle’s ignition key? (S4.5.4.2)

Yes – Pass
5. Is the on-off device separate from the ignition switch? (S4.5.4.2)
   - Yes – Pass
   - No – Fail

6. Is there a telltale light that comes on when the passenger air bag is turned off? (S4.5.4.2)
   - Yes – Pass
   - No – Fail

7. Telltale light (S4.5.4.3)
   7.1 Is the light yellow? S4.5.4.3(a))
      - Yes – Pass
      - No – Fail
   7.2 Are the words “PASSENGER AIR BAG OFF” (S4.5.4.3(b)) on the telltale?
      - Yes – Pass, go to 7.3
      - No – go to 7.2.2
   7.2.1 within 25 mm of the telltale?
      - Yes – Pass
      - No – Fail
   7.3 Does the telltale remain illuminated while the air bag is turned off? (S4.5.4.3(c)) (Leave the air bag off for 5 minutes.)
      - Yes – Pass
      - No – Fail
   7.4 Is the telltale illuminated while the air bag is turned on? (S4.5.4.3(d))
      - Yes – Fail
      - No – Pass
   7.5 Is the telltale combined with the air bag readiness indicator? (S4.5.4.3(e))
      - Yes – Fail
      - No – Pass

8. Owner’s Manual
   8.1 Does the owner’s manual contain complete instructions on the operation of the on-off switch? (S4.5.4.4(a))
      - Yes – Pass
      - No – Fail
   8.2 Does the owner’s manual contain a statement that the on-off switch should only be used when a member of one of the following risk groups is occupying the right front passenger seating position? (S4.5.4.4(b))
      - Infants: there is no back seat
      - the rear seat is too small to accommodate a child restraint
      - there is a medical condition that must be monitored constantly
      - Children aged 1 to 12: there is no back seat
      - space is not always available in the rear seat
      - there is a medical condition that must be monitored constantly
      - Medical condition: medical risk causes special risk for passenger
      - greater risk for harm than with the air bag on
REMOKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 04/01/04
DATA SHEET 8

LAP BELT LOCKABILITY

Passenger cars, trucks, buses, and multipurpose passenger vehicles with a GVWR of 10,000 pounds or less. (S7.1.1.5)

Test Vehicle: 2004 Lexus RX330
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke
NHTSA No.: C45102
Test Date: 4/01/04

Designated Seating Position: Front Passenger

<table>
<thead>
<tr>
<th>Designation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>N/A – no retractor is at this position</td>
</tr>
<tr>
<td>X</td>
<td>N/A – the retractor is an automatic locking retractor ONLY</td>
</tr>
<tr>
<td>X</td>
<td>Record test fore-aft seat position: Full Rear (S7.1.1.5(c)(1)) (Any position is acceptable)</td>
</tr>
<tr>
<td>X</td>
<td>Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT have to be attached by the vehicle user to the seat belt webbing, retractor, or any other part of the vehicle. (S7.1.1.5(a)) Yes – Pass</td>
</tr>
<tr>
<td>-</td>
<td>No – Fail</td>
</tr>
<tr>
<td>X</td>
<td>Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT require inverting, twisting or deforming of the belt webbing. (S7.1.1.5(a)) Yes – Pass</td>
</tr>
<tr>
<td>-</td>
<td>No – Fail</td>
</tr>
<tr>
<td>X</td>
<td>Buckle the seat belt. (S7.1.1.5(c)(1))</td>
</tr>
<tr>
<td>X</td>
<td>Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2))</td>
</tr>
<tr>
<td>X</td>
<td>Locate a reference point B on the attachment hardware or retractor assembly at the other end of the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))</td>
</tr>
<tr>
<td>X</td>
<td>Does the vehicle user need to take some action to activate the locking feature on the lap belt portion of the seat belt in any forward-facing seat or seat that can be adjusted to forward-facing? Yes, go to 7.1</td>
</tr>
<tr>
<td>-</td>
<td>No, go to 8</td>
</tr>
<tr>
<td>X</td>
<td>Does the vehicle owner’s manual include a description in words and/or diagrams describing how to activate the locking feature so that the seat belt assembly can tightly secure a child restraint system and how to deactivate the locking feature to remove the child restraint system. (S7.1.1.5(b)) Yes – Pass</td>
</tr>
<tr>
<td>-</td>
<td>No – Fail</td>
</tr>
</tbody>
</table>
| X           | Adjust the lap belt or lap belt portion of the seat belt assembly according to any procedures recommended in the vehicle owner’s manual to activate any locking feature so that the webbing between points A and B is at the maximum length allowed by the belt system. (S7.1.1.5(c)(2) & S7.1.1.5(c)(1))
9. Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))
   Measured distance between A and B (inches): 72.75

10. Readjust the belt system so that the webbing between points A and B is at any length that is 5 inches or more shorter than the maximum length of the webbing. (S7.1.1.5(c)(3))

11. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))
   Measured force application angle (Spec. 5-15 degrees): 11.7

12. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))
   Measured distance between A and B (inches): 44.875

13. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractor is installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))
   Record onset rate (lb/sec) (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5)): 15
   Measured distance between A and B (inches) (S7.1.1.5(c)(6)): 45.5

14. Subtract the measurement in 12 from the measurement in 13. Is the difference 2 inches or less? (S7.1.1.5(c)(7))
   13 - 12 = 0.625
   Yes – Pass
   No – Fail

15. Subtract the measurement in 9 from the measurement in 13. Is the difference 3 inches or more? (S7.1.1.5(c)(8))
   9 - 13 = 27.25
   Yes – Pass
   No – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 04/01/04
DATA SHEET 8

LAP BELT LOCKABILITY

Passenger cars, trucks, buses, and multipurpose passenger vehicles with a GVWR of 10,000 pounds or less. (S7.1.1.5)

Test Vehicle: 2004 Lexus RX330  
NHTSA No.: C45102  
Test Program: FMVSS 208 Compliance  
Test Date: 04/01/04  
Test Technician: Wayne Dahlke

Complete one of these forms for each designated seating position that can be adjusted to forward-facing or that is a forward-facing seat, other than the driver’s seat (S7.1.1.5(a), and that has seat belt retractors that are not solely automatic locking retractors. (S7.1.1.5(c))

<table>
<thead>
<tr>
<th>DESIGNATED SEATING POSITION:</th>
<th>Left Rear Passenger</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Record test fore-aft seat position: Full Rear (S7.1.1.5(c)(1)) (Any position is acceptable)</td>
<td>X Yes – Pass  No – Fail</td>
</tr>
<tr>
<td>2. Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT have to be attached by the vehicle user to the seat belt webbing, retractor, or any other part of the vehicle. (S7.1.1.5(a))</td>
<td>X Yes – Pass  No – Fail</td>
</tr>
<tr>
<td>3. Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT require inverting, twisting or deforming of the belt webbing. (S7.1.1.5(a))</td>
<td>X Yes – Pass  No – Fail</td>
</tr>
<tr>
<td>4. Buckle the seat belt. (S7.1.1.5(c)(1))</td>
<td>X Yes, go to 7.1  No, go to 8</td>
</tr>
<tr>
<td>5. Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2))</td>
<td>X</td>
</tr>
<tr>
<td>6. Locate a reference point B on the attachment hardware or retractor assembly at the other end of the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))</td>
<td>X</td>
</tr>
<tr>
<td>7. Does the vehicle user need to take some action to activate the locking feature on the lap belt portion of the seat belt in any forward-facing seat or seat that can be adjusted to forward-facing?</td>
<td>X Yes, go to 7.1  No, go to 8</td>
</tr>
<tr>
<td>7.1 Does the vehicle owner’s manual include a description in words and/or diagrams describing how to activate the locking feature so that the seat belt assembly can tightly secure a child restraint system and how to deactivate the locking feature to remove the child restraint system. (S7.1.1.5(b))</td>
<td>X Yes – Pass  No – Fail</td>
</tr>
<tr>
<td>8. Adjust the lap belt or lap belt portion of the seat belt assembly according to any procedures recommended in the vehicle owner’s manual to activate any locking feature so that the webbing between points A and B is at the maximum length allowed by the belt system. (S7.1.1.5(c)(2) &amp; S7.1.1.5(c)(1))</td>
<td>X</td>
</tr>
</tbody>
</table>
9. Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))

Measured distance between A and B (inches): 70.5

10. Readjust the belt system so that the webbing between points A and B is at any length that is 5 inches or more shorter than the maximum length of the webbing. (S7.1.1.5(c)(3))

11. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))

Measured force application angle (Spec. 5-15 degrees):

12. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))

Measured distance between A and B (inches): 47.5

13. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking restraints are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))

Record onset rate (lb/sec) (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5)): 15

Measured distance between A and B (inches) (S7.1.1.5(c)(6)): 48.375

14. Subtract the measurement in 12 from the measurement in 13. Is the difference 2 inches or less? (S7.1.1.5(c)(7))

13 - 12 = 0.875

Yes – Pass
No – Fail

15. Subtract the measurement in 9 from the measurement in 13. Is the difference 3 inches or more? (S7.1.1.5(c)(8))

9 - 13 = 22.125

Yes – Pass
No – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 04/01/04
DATA SHEET 8

LAP BELT LOCKABILITY
Passenger cars, trucks, buses, and multipurpose passenger Vehicles with a GVWR of 10,000 pounds or less. (S7.1.1.5)

<table>
<thead>
<tr>
<th>Test Vehicle:</th>
<th>2004 Lexus RX330</th>
<th>NHTSA No.:</th>
<th>C45102</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
<td>Test Date:</td>
<td>4/01/04</td>
</tr>
<tr>
<td>Test Technician:</td>
<td>Wayne Dahlke</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Complete one of these forms for each designated seating position that can be adjusted to forward-facing or that is a forward-facing seat, other than the driver’s seat (S7.1.1.5(a), and that has seat belt retractors that are not solely automatic locking retractors. (S7.1.1.5(c))

**DESIGNATED SEATING POSITION: Center Rear Passenger**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A – no retractor is at this position</td>
<td></td>
</tr>
<tr>
<td>N/A – the retractor is an automatic locking retractor ONLY</td>
<td></td>
</tr>
<tr>
<td>1. Record test fore-aft seat position: Not Adjustable</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(S7.1.1.5(c)(1)) (Any position is acceptable)</td>
</tr>
<tr>
<td>2. Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT have to be attached by the vehicle user to the seat belt webbing, retractor, or any other part of the vehicle. (S7.1.1.5 (a))</td>
<td></td>
</tr>
<tr>
<td>X Yes – Pass</td>
<td></td>
</tr>
<tr>
<td>No – Fail</td>
<td></td>
</tr>
<tr>
<td>3. Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT require inverting, twisting or deforming of the belt webbing. (S7.1.1.5 (a))</td>
<td></td>
</tr>
<tr>
<td>X Yes – Pass</td>
<td></td>
</tr>
<tr>
<td>No – Fail</td>
<td></td>
</tr>
<tr>
<td>4. Buckle the seat belt. (S7.1.1.5(c)(1))</td>
<td></td>
</tr>
<tr>
<td>X X 5. Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2))</td>
<td></td>
</tr>
<tr>
<td>X 6. Locate a reference point B on the attachment hardware or retractor assembly at the other end of the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))</td>
<td></td>
</tr>
<tr>
<td>X 7. Does the vehicle user need to take some action to activate the locking feature on the lap belt portion of the seat belt in any forward-facing seat or seat that can be adjusted to forward-facing?</td>
<td></td>
</tr>
<tr>
<td>X Yes, go to 7.1</td>
<td></td>
</tr>
<tr>
<td>No, go to 8</td>
<td></td>
</tr>
<tr>
<td>7.1 Does the vehicle owner’s manual include a description in words and/or diagrams describing how to activate the locking feature so that the seat belt assembly can tightly secure a child restraint system and how to deactivate the locking feature to remove the child restraint system. (S7.1.1.5(b))</td>
<td></td>
</tr>
<tr>
<td>X Yes – Pass</td>
<td></td>
</tr>
<tr>
<td>No – Fail</td>
<td></td>
</tr>
<tr>
<td>8. Adjust the lap belt or lap belt portion of the seat belt assembly according to any procedures recommended in the vehicle owner’s manual to activate any locking feature so that the webbing between points A and B is at the maximum length allowed by the belt system. (S7.1.1.5(c)(2) &amp; S7.1.1.5(c)(1))</td>
<td></td>
</tr>
</tbody>
</table>

Test Vehicle: 2004 Lexus RX330
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke
NHTSA No.: C45102
Test Date: 4/01/04
9. Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))
   Measured distance between A and B (inches): 77.25

10. Readjust the belt system so that the webbing between points A and B is at any length that is 5 inches or more shorter than the maximum length of the webbing. (S7.1.1.5(c)(3))

11. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))
   Measured force application angle (Spec. 5-15 degrees):

12. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))
   Measured distance between A and B (inches): 33.125

13. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))
   Record onset rate (lb/sec) (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5)):
   Measured distance between A and B (inches) (S7.1.1.5(c)(6)): 33.75

14. Subtract the measurement in 12 from the measurement in 13. Is the difference 2 inches or less? (S7.1.1.5(c)(7))
   13 - 12 = 0.625
   Yes – Pass
   No – Fail

15. Subtract the measurement in 9 from the measurement in 13. Is the difference 3 inches or more? (S7.1.1.5(c)(8))
   9 - 13 = 43.5
   Yes – Pass
   No – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 04/01/04
DATA SHEET 8
LAP BELT LOCKABILITY
Passenger cars, trucks, buses, and multipurpose passenger Vehicles with a GVWR of 10,000 pounds or less. (S7.1.1.5)

| Test Vehicle: | 2004 Lexus RX330 |
| NHTSA No.:    | C45102           |
| Test Program: | FMVSS 208 Compliance |
| Test Date:    | 4/01/04          |
| Test Technician: | Wayne Dahlke |

Complete one of these forms for each designated seating position that can be adjusted to forward-facing or that is a forward-facing seat, other than the driver’s seat (S7.1.1.5(a), and that has seat belt retractors that are not solely automatic locking retractors. (S7.1.1.5(c))

<table>
<thead>
<tr>
<th>DESIGNATED SEATING POSITION:</th>
<th>Right Rear Passenger</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A – no retractor is at this position</td>
<td></td>
</tr>
<tr>
<td>N/A – the retractor is an automatic locking retractor ONLY</td>
<td></td>
</tr>
<tr>
<td><strong>1.</strong> Record test fore-aft seat position: Not Adjustable (S7.1.1.5(c)(1)) (Any position is acceptable)</td>
<td></td>
</tr>
<tr>
<td><strong>X</strong> Yes – Pass</td>
<td></td>
</tr>
<tr>
<td><strong>X</strong> No – Fail</td>
<td></td>
</tr>
<tr>
<td><strong>2.</strong> Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT have to be attached by the vehicle user to the seat belt webbing, retractor, or any other part of the vehicle. (S7.1.1.5 (a))</td>
<td></td>
</tr>
<tr>
<td><strong>X</strong> Yes – Pass</td>
<td></td>
</tr>
<tr>
<td><strong>X</strong> No – Fail</td>
<td></td>
</tr>
<tr>
<td><strong>3.</strong> Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT require inverting, twisting or deforming of the belt webbing. (S7.1.1.5 (a))</td>
<td></td>
</tr>
<tr>
<td><strong>X</strong> Yes – Pass</td>
<td></td>
</tr>
<tr>
<td><strong>X</strong> No – Fail</td>
<td></td>
</tr>
<tr>
<td><strong>4.</strong> Buckle the seat belt. (S7.1.1.5(c)(1))</td>
<td></td>
</tr>
<tr>
<td><strong>X</strong> Yes, go to 7.1</td>
<td></td>
</tr>
<tr>
<td><strong>X</strong> No, go to 8</td>
<td></td>
</tr>
<tr>
<td><strong>5.</strong> Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2))</td>
<td></td>
</tr>
<tr>
<td><strong>X</strong> Yes – Pass</td>
<td></td>
</tr>
<tr>
<td><strong>X</strong> No – Fail</td>
<td></td>
</tr>
<tr>
<td><strong>6.</strong> Locate a reference point B on the attachment hardware or retractor assembly at the other end of the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))</td>
<td></td>
</tr>
<tr>
<td><strong>X</strong> Yes – Pass</td>
<td></td>
</tr>
<tr>
<td><strong>X</strong> No – Fail</td>
<td></td>
</tr>
<tr>
<td><strong>7.</strong> Does the vehicle user need to take some action to activate the locking feature on the lap belt portion of the seat belt in any forward-facing seat or seat that can be adjusted to forward-facing?</td>
<td></td>
</tr>
<tr>
<td><strong>X</strong> Yes, go to 7.1</td>
<td></td>
</tr>
<tr>
<td><strong>X</strong> No, go to 8</td>
<td></td>
</tr>
<tr>
<td><strong>7.1</strong> Does the vehicle owner’s manual include a description in words and/or diagrams describing how to activate the locking feature so that the seat belt assembly can tightly secure a child restraint system and how to deactivate the locking feature to remove the child restraint system. (S7.1.1.5(b))</td>
<td></td>
</tr>
<tr>
<td><strong>X</strong> Yes – Pass</td>
<td></td>
</tr>
<tr>
<td><strong>X</strong> No – Fail</td>
<td></td>
</tr>
<tr>
<td><strong>8.</strong> Adjust the lap belt or lap belt portion of the seat belt assembly according to any procedures recommended in the vehicle owner’s manual to activate any locking feature so that the webbing between points A and B is at the maximum length allowed by the belt system. (S7.1.1.5(c)(2) &amp; S7.1.1.5(c)(1))</td>
<td></td>
</tr>
</tbody>
</table>
9. Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))
   Measured distance between A and B (inches): 69

10. Readjust the belt system so that the webbing between points A and B is at any length that is 5 inches or more shorter than the maximum length of the webbing. (S7.1.1.5(c)(3))

11. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))
   Measured force application angle (Spec. 5-15 degrees): 12

12. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))
   Measured distance between A and B (inches): 43.5

13. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))
   Record onset rate (lb/sec) (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5)): 15
   Measured distance between A and B (inches) (S7.1.1.5(c)(6)): 44

14. Subtract the measurement in 12 from the measurement in 13. Is the difference 2 inches or less? (S7.1.1.5(c)(7))
   13 - 12 = 0.5
   Yes – Pass
   No – Fail

15. Subtract the measurement in 9 from the measurement in 13. Is the difference 3 inches or more? (S7.1.1.5(c)(8))
   9 - 13 = 25
   Yes – Pass
   No – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 04/01/04
DATA SHEET 9  
FMVSS 208 SEAT BELT WARNING SYSTEM CHECK (S7.3)

Test Vehicle: 2004 Lexus RX 330  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke

1. The occupant is in the driver’s seat.
2. The seat belt is in the stowed position.
3. The key is in the “on” or “start” position.
4. The time duration of the audible signal beginning with key “on” or “start” is  
   Seconds: 7.0
5. The occupant is in the driver’s seat.
6. The seat belt is in the stowed position.
7. The key is in the “on” or “start” position.
8. The time duration of the warning light beginning with key “on” or “start” is  
   Seconds: Stays On
9. The occupant is in the driver’s seat.
10. The seat belt is in the latched position and with at least 4 inches of belt webbing extended.
11. The key is in the “on” or “start” position.
12. The time duration of the audible signal beginning with key “on” or “start” is  
    Seconds: 0.0
13. The occupant is in the driver’s seat.
14. The seat belt is in the latched position and with at least 4 inches of belt webbing extended.
15. The key is in the “on” or “start” position.
16. The time duration of the warning light beginning with key “on” or “start” is  
    Seconds: 0.0
17. Complete the following table with the data from 4, 8, 12, and 16 to determine which  
    option is used.

| S7.3 (a)(1) | Belt latched & key on or start | Item 16: 0.0 | 0 seconds* | Item 12: 0.0 | 0 seconds** |
| S7.3 (a)(2) | Belt latched & key on or start | Item 16: 0.0 | 4 to 8 seconds | Item 12: 0.0 | 0 seconds** |

* 49 USCS @ 30124 does NOT allow an audible signal to operate for more than 8 seconds.
** 0 seconds means the light or audible signal are NOT permitted to operate under these conditions.
See 7/12/00 interpretation to Patrick Raher of Hogan and Hartson

NHTSA No.: C45102  
Test Date: 4/01/04
Test Vehicle: 2004 Lexus RX 330  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke

<table>
<thead>
<tr>
<th>Warning light specification</th>
<th>Audible signal</th>
<th>Audible signal specification*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item 16: 0.0</td>
<td>Item 12: 0.0</td>
<td>0 seconds**</td>
</tr>
<tr>
<td>Item 8: Stays On</td>
<td>Item 4: 7.0</td>
<td>4 to 8 seconds</td>
</tr>
<tr>
<td>Item 16: 0.0</td>
<td>Item 12: 0.0</td>
<td>4 to 8 seconds</td>
</tr>
<tr>
<td>Item 8: Stays On</td>
<td>Item 4: 7.0</td>
<td>4 to 8 seconds</td>
</tr>
</tbody>
</table>
18. The seat belt warning system meets the requirements of (manufacturers may comply with either section)

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>S7.3 (a)(1)</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>S7.3 (a)(2)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FAIL – does not meet the requirements of either option</td>
<td></td>
</tr>
</tbody>
</table>

19. Note wording of visual warning: (S7.3(a)(1) and S7.3(a)(2))

|   | Fasten seat belts |   |
|   | Fasten belts |   |
| X | Symbol 101 |   |
|   | FAIL – does not use any of the above wording or symbol |   |

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________  
Date: 04/01/04
Test all Type 2 seat belts other than those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

**DESIGNATED SEATING POSITION:** Left Front Driver

1. **Does the vehicle incorporate a webbing tension-relieving device?**
   - X Yes, this form is complete
   - No, continue with this check sheet

2. **Position the seat’s adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)**
   - X N/A, no lumbar adjustment

3. **Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2)**
   - X N/A, no additional support adjustment

4. **Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2)**
   - X N/A, no independent fore-aft seat cushion adjustment

5. **If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S16.2.10.3.1)**
   - X N/A, no independent seat cushion height adjustment

6. **Put the seat in its full rearward position. (S16.2.10.3.1)**
   - X N/A, the seat does not have a fore-aft adjustment

7. **If the seat cushion height adjusts independent of the seat back, set this adjustment to the full down position. (S16.2.10.3.1)**
   - X N/A, no seat height adjustment

8. **Draw a horizontal reference line on the side of the seat cushion.**

9. **Using only the controls that change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward.**
   - X N/A, the seat does not have a fore-aft adjustment

10. **Using only the controls that change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the middle fore-aft position for this test. (S8.1.2)**
Mid position
If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat:

11. If seat adjustments other than fore-aft are present and the horizontal reference line is no longer horizontal, use those adjustments to maintain the reference line as closely as possible to the horizontal. (S16.2.10.3.2.1)

   N/A, no adjustments
   Reference line angle as tested: Zero

12. The seat back angle, if adjustable, is set at the manufacturer’s nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S4.5.4.1 (b) and S8.1.3)

   N/A, no seat back angle adjustment
   Manufacturer’s design seat back angle: 3° on head rest
   Tested seat back angle: 3° on head rest

13. Position the test dummies according to dummy position placement instructions in Appendix F.

14. Fasten the seat belt latch.

15. Pull either 12 inches of belt webbing or the maximum available amount of belt webbing, whichever is less, from the retractor and then release it, allowing the belt webbing to return to the dummy’s chest.

16. Locate the point where the centerline of the upper torso belt webbing crosses the midsagittal line on the dummy’s chest. At that point pull the belt webbing out 3 inches from the dummy’s chest and release until it is within one inch from the dummy’s chest. (S10.8) Using a force measuring gage with a full scale range of no more than 1.5 pounds, measure the contact force perpendicular to the dummy’s chest exerted by the belt webbing.

   Contact Force (lb): 0.24
   0.0 to 0.7 pounds – Pass
   Greater than 0.7 pounds - Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________
Date: 04/01/04
## DATA SHEET 10
### BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2004 Lexus RX330  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke

Test all Type 2 seat belts other than those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

### DESIGNATED SEATING POSITION: Right Front Passenger

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Does the vehicle incorporate a webbing tension-relieving device?</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Yes, this form is complete</td>
<td></td>
</tr>
<tr>
<td></td>
<td>No, continue with this check sheet</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Position the seat’s adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>N/A, no lumbar adjustment</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>N/A, no additional support adjustment</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>N/A, no independent fore-aft seat cushion adjustment</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S16.2.10.3.1)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>N/A, no independent seat cushion height adjustment</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Put the seat in its full rearward position. (S16.2.10.3.1)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>N/A, the seat does not have a fore-aft adjustment</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>If the seat cushion height adjusts independent of the seat back, set this adjustment to the full down position. (S16.2.10.3.1)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>N/A, no seat height adjustment</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Draw a horizontal reference line on the side of the seat cushion.</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Using only the controls that change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>N/A, the seat does not have a fore-aft adjustment</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Using only the controls that change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the middle fore-aft position for this test. (S8.1.2)</td>
<td></td>
</tr>
</tbody>
</table>
Mid position
If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat:

11. If seat adjustments other than fore-aft are present and the horizontal reference line is no longer horizontal, use those adjustments to maintain the reference line as closely as possible to the horizontal. (S16.2.10.3.2.1)
   N/A, no adjustments

Reference line angle as tested: Zero

12. The seat back angle, if adjustable, is set at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S4.5.4.1 (b) and S8.1.3)
   N/A, no seat back angle adjustment

Manufacturer's design seat back angle: 3° on head rest
Tested seat back angle: 3° on head rest

13. Position the test dummies according to dummy position placement instructions in Appendix F.

14. Fasten the seat belt latch.

15. Pull either 12 inches of belt webbing or the maximum available amount of belt webbing, whichever is less, from the retractor and then release it, allowing the belt webbing to return to the dummy's chest.

16. Locate the point where the centerline of the upper torso belt webbing crosses the midsagittal line on the dummy's chest. At that point pull the belt webbing out 3 inches from the dummy's chest and release until it is within one inch from the dummy's chest. (S10.8) Using a force measuring gage with a full scale range of no more than 1.5 pounds, measure the contact force perpendicular to the dummy's chest exerted by the belt webbing.
   Contact Force (lb): 0.2
   0.0 to 0.7 pounds – Pass
   Greater than 0.7 pounds - Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________
Date: 04/01/04
DATA SHEET 10
BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2004 Lexus RX330  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke

Test all Type 2 seat belts other than those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

<table>
<thead>
<tr>
<th>DESIGNATED SEATING POSITION: Left Rear Passenger</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Does the vehicle incorporate a webbing tension-relieving device?</td>
</tr>
<tr>
<td>X Yes, this form is complete</td>
</tr>
<tr>
<td>X No, continue with this check sheet</td>
</tr>
<tr>
<td>2. Position the seat’s adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)</td>
</tr>
<tr>
<td>X N/A, no lumbar adjustment</td>
</tr>
<tr>
<td>3. Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2)</td>
</tr>
<tr>
<td>X N/A, no additional support adjustment</td>
</tr>
<tr>
<td>4. Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2)</td>
</tr>
<tr>
<td>X N/A, no independent fore-aft seat cushion adjustment</td>
</tr>
<tr>
<td>5. If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S16.2.10.3.1)</td>
</tr>
<tr>
<td>X N/A, no independent seat cushion height adjustment</td>
</tr>
<tr>
<td>6. Put the seat in its full rearward position. (S16.2.10.3.1)</td>
</tr>
<tr>
<td>X N/A, the seat does not have a fore-aft adjustment</td>
</tr>
<tr>
<td>7. If the seat cushion height adjusts independent of the seat back, set this adjustment to the full down position. (S16.2.10.3.1)</td>
</tr>
<tr>
<td>X N/A, no seat height adjustment</td>
</tr>
<tr>
<td>8. Draw a horizontal reference line on the side of the seat cushion.</td>
</tr>
<tr>
<td>9. Using only the controls that change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward.</td>
</tr>
<tr>
<td>X N/A, the seat does not have a fore-aft adjustment</td>
</tr>
<tr>
<td>10. Using only the controls that change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the middle fore-aft position for this test. (S8.1.2)</td>
</tr>
</tbody>
</table>

Test Vehicle: 2004 Lexus RX330  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke  
Test Date: 4/01/04  
NHTSA No.: C45102
Mid position
If there is no mid position, put the seat in the closest adjustment position to the rear of
the midpoint. Describe the location of the seat: Not adjustable

11. If seat adjustments other than fore-aft are present and the horizontal reference line is no
longer horizontal, use those adjustments to maintain the reference line as closely as
possible to the horizontal. (S16.2.10.3.2.1)

N/A, no adjustments
Reference line angle as tested: Zero

12. The seat back angle, if adjustable, is set at the manufacturer's nominal design riding
position for a 50th percentile adult male in the manner specified by the manufacturer.
(S4.5.4.1 (b) and S8.1.3)

N/A, no seat back angle adjustment
Manufacturer's design seat back angle: 8° on head rest
Tested seat back angle: 9.3° on head rest

13. Position the test dummies according to dummy position placement instructions in
Appendix F.

14. Fasten the seat belt latch.

15. Pull either 12 inches of belt webbing or the maximum available amount of belt webbing,
whichever is less, from the retractor and then release it, allowing the belt webbing to
return to the dummy's chest.

16. Locate the point where the centerline of the upper torso belt webbing crosses the
midsagittal line on the dummy's chest. At that point pull the belt webbing out 3 inches
from the dummy's chest and release until it is within one inch from the dummy's chest.
(S10.8) Using a force measuring gage with a full scale range of no more than 1.5
pounds, measure the contact force perpendicular to the dummy's chest exerted by the
belt webbing.

Contact Force (lb): 0.28
0.0 to 0.7 pounds – Pass
Greater than 0.7 pounds - Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________
Date: 04/01/04
Data Sheet 10

Belt Contact Force (S7.4.3)

Test all Type 2 seat belts other than those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

**Designated Seating Position:** Center Rear Passenger

1. Does the vehicle incorporate a webbing tension-relieving device?
   - [ ] Yes, this form is complete
   - [x] No, continue with this check sheet

2. Position the seat’s adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)
   - [x] N/A, no lumbar adjustment

3. Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2)
   - [x] N/A, no additional support adjustment

4. Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2)
   - [x] N/A, no independent fore-aft seat cushion adjustment

5. If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S16.2.10.3.1)
   - [x] N/A, no independent seat cushion height adjustment

6. Put the seat in its full rearward position. (S16.2.10.3.1)
   - [x] N/A, the seat does not have a fore-aft adjustment

7. If the seat cushion height adjusts independent of the seat back, set this adjustment to the full down position. (S16.2.10.3.1)
   - [x] N/A, no seat height adjustment

8. Draw a horizontal reference line on the side of the seat cushion.

9. Using only the controls that change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the midpoint), and R for full rearward.
   - [x] N/A, the seat does not have a fore-aft adjustment

10. Using only the controls that change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the middle fore-aft position for this test. (S8.1.2)

Test Vehicle: 2004 Lexus RX330
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

Test Date: 4/01/04
If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat: Not adjustable

11. If seat adjustments other than fore-aft are present and the horizontal reference line is no longer horizontal, use those adjustments to maintain the reference line as closely as possible to the horizontal. (S16.2.10.3.2.1)

N/A, no adjustments

Reference line angle as tested: Zero

12. The seat back angle, if adjustable, is set at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S4.5.4.1 (b) and S8.1.3)

N/A, no seat back angle adjustment

Manufacturer's design seat back angle: 8° on head rest

Tested seat back angle: 9.5° on head rest

13. Position the test dummies according to dummy position placement instructions in Appendix F.

14. Fasten the seat belt latch.

15. Pull either 12 inches of belt webbing or the maximum available amount of belt webbing, whichever is less, from the retractor and then release it, allowing the belt webbing to return to the dummy's chest.

16. Locate the point where the centerline of the upper torso belt webbing crosses the midsagittal line on the dummy's chest. At that point pull the belt webbing out 3 inches from the dummy's chest and release until it is within one inch from the dummy's chest. (S10.8) Using a force measuring gage with a full scale range of no more than 1.5 pounds, measure the contact force perpendicular to the dummy's chest exerted by the belt webbing.

Contact Force (lb): 0.3

0.0 to 0.7 pounds – Pass
Greater than 0.7 pounds - Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature:

Date: 04/01/04
DATA SHEET 10
BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2004 Lexus RX330  NHTSA No.: C45102
Test Program: FMVSS 208 Compliance  Test Date: 4/01/04
Test Technician: Wayne Dahlke

Test all Type 2 seat belts other than those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

DESIGNATED SEATING POSITION: Right Rear Passenger

1. Does the vehicle incorporate a webbing tension-relieving device?
   - Yes, this form is complete
   - No, continue with this check sheet

2. Position the seat’s adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)
   - N/A, no lumbar adjustment

3. Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2)
   - N/A, no additional support adjustment

4. Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2)
   - N/A, no independent fore-aft seat cushion adjustment

5. If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S16.2.10.3.1)
   - N/A, no independent seat cushion height adjustment

6. Put the seat in its full rearward position. (S16.2.10.3.1)
   - N/A, the seat does not have a fore-aft adjustment

7. If the seat cushion height adjusts independent of the seat back, set this adjustment to the full down position. (S16.2.10.3.1)
   - N/A, no seat height adjustment

8. Draw a horizontal reference line on the side of the seat cushion.

9. Using only the controls that change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward.
   - N/A, the seat does not have a fore-aft adjustment

10. Using only the controls that change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the middle fore-aft position for this test. (S8.1.2)
If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat: Not adjustable

If seat adjustments other than fore-aft are present and the horizontal reference line is no longer horizontal, use those adjustments to maintain the reference line as closely as possible to the horizontal. (S16.2.10.3.2.1)

N/A, no adjustments

Reference line angle as tested: Zero

The seat back angle, if adjustable, is set at the manufacturer’s nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S4.5.4.1 (b) and S8.1.3)

N/A, no seat back angle adjustment

Manufacturer’s design seat back angle: 8° on head rest

Tested seat back angle: 9.5° on head rest

Position the test dummies according to dummy position placement instructions in Appendix F.

Fasten the seat belt latch.

Pull either 12 inches of belt webbing or the maximum available amount of belt webbing, whichever is less, from the retractor and then release it, allowing the belt webbing to return to the dummy’s chest.

Locate the point where the centerline of the upper torso belt webbing crosses the midsagittal line on the dummy’s chest. At that point pull the belt webbing out 3 inches from the dummy’s chest and release until it is within one inch from the dummy’s chest. (S10.8) Using a force measuring gage with a full scale range of no more than 1.5 pounds, measure the contact force perpendicular to the dummy’s chest exerted by the belt webbing.

Contact Force (lb): 0.26

0.0 to 0.7 pounds – Pass

Greater than 0.7 pounds - Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: 

Date: 04/01/04
DATA SHEET 11
LATCH PLATE ACCESS (S7.4.4)

Test Vehicle: 2004 Lexus RX330  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke  
Test Date: 4/01/04

Test all front outboard seat belts other than those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

**DESIGNATED SEATING POSITION:** Left Front Driver

1. Position the seat’s adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (8.1.3)  
   - N/A, no lumbar adjustment

2. Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2)  
   - N/A, no additional support adjustment

3. If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S16.2.10.3.1)  
   - N/A, no independent fore-aft seat cushion adjustment

4. If the seat cushion height adjusts independent of the seat back, set this adjustment to the full down position. (S16.2.10.3.1)  
   - N/A, no independent seat cushion height adjustment

5. Put the seat in its full rearward position. (S16.2.10.3.1)  
   - N/A, the seat does not have a fore-aft adjustment

6. If the seat height is adjustable, put it in the full down position. (S16.2.10.3.1)  
   - N/A, no seat height adjustment

7. Draw a horizontal reference line on the side of the seat cushion

8. Using only the controls that change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward.  
   - N/A, the seat does not have a fore-aft adjustment

9. Using only the controls that change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the forward most fore-aft position for this test. (S10.7)

10. If seat adjustments, other than fore-aft, are present and the horizontal reference line is no longer horizontal, use those adjustments to maintain the reference line as closely as possible to the horizontal.  
   - N/A, no adjustments

Test Vehicle: 2004 Lexus RX330  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke  
Test Date: 4/01/04
11. The seat back angle, if adjustable, is set at the manufacturer’s nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S4.5.4.1 (b) and S8.1.3)

- N/A, no seat back angle adjustment

Manufacturer's design seat back angle: 3° on head rest

Tested seat back angle: 3° on head rest

12. Position the test dummy using the procedures in Appendix A. (Some modifications to the positioning procedure may need to be made because the seat is in its forward most position. Note on the Appendix A positioning check sheet any deviations necessary to position the Part 572, Subpart E dummy.) Include the positioning check sheet with this form.

13. Position the adjustable seat belt anchorage in the manufacturer’s nominal design position for a 50th percentile adult male occupant.

14. Attach the inboard reach string to the base of the head following the instructions on Figure 3.

15. Attach the outboard reach string to the torso sheath following the instructions on Figure 3.

16. Place the latch plate in the stowed position.

17. Extend inboard reach string in front of the dummy and then backward and outboard to the latch plate to generate an arc of the reach envelope of the test dummy’s arms. Is the latch plate within the reach envelope?

- Yes – Pass
- No

18. Extend outboard reach string in front of the dummy and then backward and outboard to the latch plate to generate an arc of the reach envelope of the test dummy’s arms. Is the latch plate within the reach envelope?

- Yes – Pass
- No

19. Is the latch plate within the inboard (item 17) or outboard (item 18) reach envelope?

- Yes – Pass
- No – Fail

20. Using the clearance test block, specified in Figure 4, is there sufficient clearance between the vehicle seat and the side of vehicle interior to allow the test block to move unhindered to the latch plate or buckle?

- Yes – Pass
- No – Fail
Figure 3. Location of Anchoring Points for Latchplate Reach Limiting Chains or Strings to Test for Latchplate Accessibility Using Subpart E Test Device
REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 04/01/04
Test Vehicle: 2004 Lexus RX330  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke  
NHTSA No.: C45102  
Test Date: 4/01/04

Test all front outboard seat belts other than those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

**DESIGNATED SEATING POSITION:** Right Front Passenger

1. Position the seat’s adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (8.1.3)  
   N/A, no lumbar adjustment

2. Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2)  
   N/A, no additional support adjustment

3. If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S16.2.10.3.1)  
   N/A, no independent fore-aft seat cushion adjustment

4. If the seat cushion height adjusts independent of the seat back, set this adjustment to the full down position. (S16.2.10.3.1)  
   N/A, no independent seat cushion height adjustment

5. Put the seat in its full rearward position. (S16.2.10.3.1)  
   N/A, the seat does not have a fore-aft adjustment

6. If the seat height is adjustable, put it in the full down position. (S16.2.10.3.1)  
   N/A, no seat height adjustment

7. Draw a horizontal reference line on the side of the seat cushion

8. Using only the controls that change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward.  
   N/A, the seat does not have a fore-aft adjustment.

9. Using only the controls that change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the forward most fore-aft position for this test. (S10.7)  

10. If seat adjustments, other than fore-aft, are present and the horizontal reference line is no longer horizontal, use those adjustments to maintain the reference line as closely as possible to the horizontal.

N/A, no adjustments
11. The seat back angle, if adjustable, is set at the manufacturer’s nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S4.5.4.1 (b) and S8.1.3)
   N/A, no seat back angle adjustment
   Manufacturer’s design seat back angle: 3° on head rest
   Tested seat back angle: 3° on head rest

12. Position the test dummy using the procedures in Appendix A. (Some modifications to the positioning procedure may need to be made because the seat is in its forward most position. Note on the Appendix A positioning check sheet any deviations necessary to position the Part 572, Subpart E dummy.) Include the positioning check sheet with this form.

13. Position the adjustable seat belt anchorage in the manufacturer’s nominal design position for a 50th percentile adult male occupant.

14. Attach the inboard reach string to the base of the head following the instructions on Figure 3.

15. Attach the outboard reach string to the torso sheath following the instructions on Figure 3.

16. Place the latch plate in the stowed position.

17. Extend inboard reach string in front of the dummy and then backward and outboard to the latch plate to generate an arc of the reach envelope of the test dummy’s arms. Is the latch plate within the reach envelope?
   Yes – Pass
   No

18. Extend outboard reach string in front of the dummy and then backward and outboard to the latch plate to generate an arc of the reach envelope of the test dummy’s arms. Is the latch plate within the reach envelope?
   Yes – Pass
   No

19. Is the latch plate within the inboard (item 17) or outboard (item 18) reach envelope?
   Yes – Pass
   No – Fail

20. Using the clearance test block, specified in Figure 4, is there sufficient clearance between the vehicle seat and the side of vehicle interior to allow the test block to move unhindered to the latch plate or buckle?
   Yes – Pass
   No – Fail
Figure 3. Location of Anchoring Points for Latchplate Reach Limiting Chains or Strings to Test for Latchplate Accessibility Using Subpart E Test Device
REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 04/01/04
DATA SHEET 12
SEAT BELT RETRACTION (S7.4.5)

Test Vehicle: 2004 Lexus RX330
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

Test all front outboard seat belts other than those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

DESIGNATED SEATING POSITION: Left Front Driver
GVWR: 2380 kg

1. Is the vehicle a passenger car or walk-in van-type vehicle?
   X Yes, this form is complete
   X No

2. Position the seat’s adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)
   X N/A, no lumbar adjustment

3. Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2)
   X N/A, no additional support adjustment

4. If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position.) (S16.2.10.3.1)
   X N/A, no independent fore-aft seat cushion adjustment

5. If the seat cushion height adjusts independent of the seat back, set this adjustment to the full down position. (S16.2.10.3.1)
   X N/A, no independent seat cushion height adjustment

6. Put the seat in its full rearward position.
   X N/A, the seat does not have a fore-aft adjustment

7. If the seat height is adjustable, put it in the full down position. (S8.1.2)
   X N/A, no seat adjustment

8. Draw a horizontal line on the side of the seat cushion.

9. Using only the controls that change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward.
   X N/A, the seat does not have a fore-aft adjustment

10. Using only the controls that change the seat in the fore-aft direction, place the seat in the middle fore-aft position. (S8.1.2)
    X If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat:

Test Vehicle:
Test Program:
Test Technician:
NHTSA No.:
Test Date:
4/01/04
11. If seat adjustments, other than fore-aft, are present and the reference line is no longer horizontal, use those adjustments to maintain the reference line as closely as possible to the horizontal. (S16.2.10.3.2)

   N/A – no seat adjustment

   Reference angle as tested: Zero

12. The seat back angle, if adjustable, is set at the manufacturer’s nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S8.1.3)

   N/A – no seat back angle adjustment

   Manufacturer’s design seat back angle: 3° on head rest

   Tested seat back angle: 3° on head rest

13. If adjustable, set the head restraint at the full up and full forward position. (S8.1.3) Any adjustment of the head restraint shall be used to position it full forward. For example, if it rotates, rotate it such that the head restraint extends as far forward as possible.

   N/A – no head restraint adjustment

14. Place any adjustable seat belt anchorages at the vehicle manufacturer’s nominal design position for a 50th percentile adult male occupant (S8.1.3)

   N/A – no adjustable upper seat belt anchorage

   Manufacturer’s specified anchorage position: 2nd down from topmost

   Tested anchorage position: 2nd down from topmost

15. Is the driver seat a bucket seat?

   X Yes, go to 15.1 and skip 15.2.

   No, go to 15.2 and skip 15.1

15.1 Bucket seats - Locate and mark a vertical Plane B through the longitudinal centerline of the seat. The longitudinal centerline of a bucket seat cushion is determined at the widest part of the seat cushion. Measure perpendicular to the longitudinal centerline of the vehicle.

   Record the width of the seat: 524 mm

   Record the distance from the edge of the seat to Plane B: 262 mm

15.2 Bench seats (including split bench seats):

   Driver seat: Locate and mark a vertical Plane B through the center of the steering wheel parallel to the vehicle longitudinal centerline.

   Passenger seat: Locate and mark a vertical longitudinal Plane B on the seat that is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel.

   Distance from the vehicle centerline to the center of the steering wheel:

   Distance from the vehicle centerline to Plane B:

16. Stow outboard armrests that are capable of being stowed. (S7.4.5)

17. Remove the arms of a Subpart E dummy and place it in the seat such that the midsagittal plane is coincident with Plane B and the upper torso rests against the seat back. (S10.4.1.1 & S10.4.1.2)

18. Rest the thighs on the seat cushion
19. Position the H-point of the dummy within 0.5 inch of the vertical dimension and 0.5 inch of the horizontal dimension of a point 0.25 inch below the H-point determined by using the equipment and procedures specified in SAE J826 (APR 1980). (S10.4.2.1) Then measure the pelvic angle with respect to the horizontal using the pelvic angle gage. Adjust the dummy position until these three measurements are within the specifications. (S10.4.2.1 and S10.4.2.2)

- Horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
- Vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
- Pelvic angle (20° to 25°) (S10.4.2.1)
- Vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
- Pelvic angle (20° to 25°) (S10.4.2.2)

20. Set the distance between the outboard knee clevis flange surfaces at 10.6 inches.

- Measured distance (10.6 inches) (S10.5): 10.5

21. To the extent practicable keep the thighs and the legs in a vertical plane (S10.5) and rest the thighs on the seat cushion while resting the feet on the floorpan or toe board.

22. Fasten the seat belt around the dummy.

23. Remove all slack from the lap belt portion. (S10.9)

24. Pull the upper torso webbing out of the retractor and allow it to retract; repeat this four times. (S10.9)

25. Apply a 2 to 4 pound tension load to the lap belt. (S10.9)

- Pound load applied: 3

26. Is the belt system equipped with a tension relieving device?

- Yes – Continue
- No – Go to 27

26.1 Introduce the maximum amount of slack into the upper torso belt that is recommended by the vehicle manufacturer in the vehicle owner’s manual. (S10.9). Go to 25.

27. Check the statement that applies to this test vehicle:

27.1 Check the statement that applies to this test vehicle:
- The torso and lap belt webbing of the seat belt system automatically retracts to a stowed position when the adjacent vehicle door is in an open position and the seat belt latch plate is released.
  - Pass
  - Neither A or B apply
  - Fail

28. With the webbing and hardware in the stowed position are the webbing and hardware prevented from being pinched when the door is closed?

- Yes – Pass
- No – Fail
29. If this test vehicle has an open body (without doors) and has a belt system with a tension-relieving device, does the belt system fully retract when the tension-relieving device is deactivated?

X N/A

Yes – Pass

No – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 04/01/04
DATA SHEET 12
SEAT BELT RETRACTION (S7.4.5)

Test Vehicle: 2004 Lexus RX330
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

NHTSA No.: C45102
Test Date: 4/01/04

Test all front outboard seat belts other than those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

DESIGNATED SEATING POSITION: Right Front Passenger
GVWR: 2380 kg

1. Is the vehicle a passenger car or walk-in van-type vehicle?
   - Yes, this form is complete
   - X No

2. Position the seat’s adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)
   - X N/A, no lumbar adjustment

3. Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2)
   - X N/A, no additional support adjustment

4. If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position.) (S16.2.10.3.1)
   - X N/A, no independent fore-aft seat cushion adjustment

5. If the seat cushion height adjusts independent of the seat back, set this adjustment to the full down position. (S16.2.10.3.1)
   - X N/A, no independent seat cushion height adjustment

6. Put the seat in its full rearward position.
   - X N/A, the seat does not have a fore-aft adjustment

7. If the seat height is adjustable, put it in the full down position. (S8.1.2)
   - X N/A, no seat adjustment

8. Draw a horizontal line on the side of the seat cushion.

9. Using only the controls that change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward.
   - X N/A, the seat does not have a fore-aft adjustment

10. Using only the controls that change the seat in the fore-aft direction, place the seat in the middle fore-aft position. (S8.1.2)
    - If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat:
11. If seat adjustments, other than fore-aft, are present and the reference line is no longer horizontal, use those adjustments to maintain the reference line as closely as possible to the horizontal. (S16.2.10.3.2)

N/A – no seat adjustment

Reference angle as tested: Zero

12. The seat back angle, if adjustable, is set at the manufacturer’s nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S8.1.3)

N/A – no seat back angle adjustment

Manufacturer’s design seat back angle: 3° on head rest

Tested seat back angle: 3° on head rest

13. If adjustable, set the head restraint at the full up and full forward position. (S8.1.3) Any adjustment of the head restraint shall be used to position it full forward. For example, if it rotates, rotate it such that the head restraint extends as far forward as possible.

N/A – no head restraint adjustment

14. Place any adjustable seat belt anchorages at the vehicle manufacturer’s nominal design position for a 50th percentile adult male occupant (S8.1.3)

N/A – no adjustable upper seat belt anchorage

Manufacturer’s specified anchorage position: 2nd down from topmost

Tested anchorage position: 2nd down from topmost

15. Is the driver seat a bucket seat?

Yes, go to 15.1 and skip 15.2.

No, go to 15.2 and skip 15.1

15.1 Bucket seats - Locate and mark a vertical Plane B through the longitudinal centerline of the seat. The longitudinal centerline of a bucket seat cushion is determined at the widest part of the seat cushion. Measure perpendicular to the longitudinal centerline of the vehicle.

Record the width of the seat:: 526 mm

Record the distance from the edge of the seat to Plane B: 263 mm

15.2 Bench seats (including split bench seats):

Driver seat: Locate and mark a vertical Plane B through the center of the steering wheel parallel to the vehicle longitudinal centerline.

Passenger seat: Locate and mark a vertical longitudinal Plane B on the seat that is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel.

Distance from the vehicle centerline to the center of the steering wheel:

Distance from the vehicle centerline to Plane B:

16. Stow outboard armrests that are capable of being stowed. (S7.4.5)

17. Remove the arms of a Subpart E dummy and place it in the seat such that the midsagittal plane is coincident with Plane B and the upper torso rests against the seat back. (S10.4.1.1 & S10.4.1.2)

18. Rest the thighs on the seat cushion
19. Position the H-point of the dummy within 0.5 inch of the vertical dimension and 0.5 inch of the horizontal dimension of a point 0.25 inch below the H-point determined by using the equipment and procedures specified in SAE J826 (APR 1980). Then measure the pelvic angle with respect to the horizontal using the pelvic angle gage. Adjust the dummy position until these three measurements are within the specifications. (S10.4.2.1 and S10.4.2.2)

- Horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
- Vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
- Pelvic angle (20° to 25°) (S10.4.2.1)
- Vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
- Pelvic angle (20° to 25°) (S10.4.2.2)

20. Set the distance between the outboard knee clevis flange surfaces at 10.6 inches.

- Measured distance (10.6 inches) (S10.5): 10.5

21. To the extent practicable keep the thighs and the legs in a vertical plane (S10.5) and rest the thighs on the seat cushion while resting the feet on the floorpan or toe board.

22. Fasten the seat belt around the dummy.

23. Remove all slack from the lap belt portion. (S10.9)

24. Pull the upper torso webbing out of the retractor and allow it to retract; repeat this four times. (S10.9)

25. Apply a 2 to 4 pound tension load to the lap belt. (S10.9)

- Pound load applied: 4

26. Is the belt system equipped with a tension relieving device?

- Yes, continue
- No, go to 27

26.1 Introduce the maximum amount of slack into the upper torso belt that is recommended by the vehicle manufacturer in the vehicle owner’s manual. (S10.9). Go to 25.

27. Check the statement that applies to this test vehicle:

27.1 Check the statement that applies to this test vehicle:

- The torso and lap belt webbing of the seat belt system automatically retracts to a stowed position when the adjacent vehicle door is in an open position and the seat belt latch plate is released.
  - Pass
- The torso and lap belt webbing of the seat belt system automatically retracts when the seat belt latch plate is released.
  - Pass
- Neither A or B apply
  - Fail
- With the webbing and hardware in the stowed position are the webbing and hardware prevented from being pinched when the door is closed?
  - Yes – Pass
  - No – Fail
29. If this test vehicle has an open body (without doors) and has a belt system with a tension-relieving device, does the belt system fully retract when the tension-relieving device is deactivated?

- [X] N/A
- [ ] Yes – Pass
- [ ] No – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 04/01/04
DATA SHEET 13
SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2004 Lexus RX330  Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke  NHTSA No.: C45102  Test Date: 4/01/04

Test seat belts except those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

DESIGNATED SEATING POSITION: Left Front Driver

1. Is the seat cushion movable so that the seat back serves a function other than seating? (S7.4.6.1 (b))
   - Yes, this form is complete
   - No, go to 2

2. Is the seat removable? (S7.4.6.1(b))
   - Yes, this form is complete
   - No, go to 3

3. Is the seat movable so that the space formerly occupied by the seat can be used for a secondary function? (S7.4.6.1(b))
   - Yes, this form is complete
   - No, go to 4

4. Is the webbing designed to pass through the seat cushion or between the seat cushion and seat back? (S7.4.6.1(a))
   - Yes, go to 5
   - No, this form is complete

5. Does one of the following three parts, the seat belt latch plate, the buckle, or the seat belt webbing, stay on top of or above the seat cushion under normal conditions (i.e., conditions other than when belt hardware is intentionally pushed behind the seat by a vehicle occupant)? (S7.4.6.1(a))
   - Yes – Pass
   - No – Fail
   Identify the part(s) on top or above the seat.
   - Seat belt latch plate
   - Buckle
   - Seat belt webbing

6. Are the remaining two seat belt parts accessible under normal conditions?
   - Yes – Pass
   - No – Fail

7. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the belt is completely retracted or, if the belt is nonretractable, the belt is unlatched. (S7.4.6.2)
8. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat is moved to any position to which it is designed to be adjusted. (S7.4.6.2)
   Yes – Pass
   No – Fail

9. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat back, if foldable, is folded forward as far as possible and then moved backward into position. (S7.4.6.2)
   Yes – Pass
   No – Fail

10. Is the inboard receptacle end of the seat belt assembly, installed in the front outboard designated seating position, accessible with the center armrest in any position to which it can be adjusted (without moving the armrest)? (S7.4.6.2)
    Yes – Pass
    No – Fail
    N/A – Rear seat

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 04/01/04
DATA SHEET 13
SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2004 Lexus RX330  
NHTSA No.: C45102  
Test Program: FMVSS 208 Compliance  
Test Date: 4/01/04  
Test Technician: Wayne Dahlke

Test seat belts except those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

DESIGNATED SEATING POSITION: Right Front Passenger

1. Is the seat cushion movable so that the seat back serves a function other than seating? (S7.4.6.1 (b))
   - [X] Yes, this form is complete
   - [X] No, go to 2

2. Is the seat removable? (S7.4.6.1(b))
   - [X] Yes, this form is complete
   - [X] No, go to 3

3. Is the seat movable so that the space formerly occupied by the seat can be used for a secondary function? (S7.4.6.1(b))
   - [X] Yes, this form is complete
   - [X] No, go to 4

4. Is the webbing designed to pass through the seat cushion or between the seat cushion and seat back? (S7.4.6.1(a))
   - [X] Yes, go to 5
   - [X] No, this form is complete

5. Does one of the following three parts, the seat belt latch plate, the buckle, or the seat belt webbing, stay on top of or above the seat cushion under normal conditions (i.e., conditions other than when belt hardware is intentionally pushed behind the seat by a vehicle occupant)? (S7.4.6.1(a))
   - [ ] Yes – Pass
   - [ ] No – Fail
   Identify the part(s) on top or above the seat.
   - [ ] Seat belt latch plate
   - [ ] Buckle
   - [ ] Seat belt webbing

6. Are the remaining two seat belt parts accessible under normal conditions?
   - [ ] Yes – Pass
   - [ ] No – Fail

7. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the belt is completely retracted or, if the belt is nonretractable, the belt is unlatched. (S7.4.6.2)
   - [ ] Yes – Pass
   - [ ] No – Fail
8. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat is moved to any position to which it is designed to be adjusted. (S7.4.6.2)
   Yes – Pass
   No – Fail

9. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat back, if foldable, is folded forward as far as possible and then moved backward into position. (S7.4.6.2)
   Yes – Pass
   No – Fail

10. Is the inboard receptacle end of the seat belt assembly, installed in the front outboard designated seating position, accessible with the center armrest in any position to which it can be adjusted (without moving the armrest)? (S7.4.6.2)
    Yes – Pass
    No – Fail
    N/A – Rear seat

REMARKS:

I certify that I have read and performed each instruction.

Signature:  

Date:  04/01/04
Test seat belts except those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

**DESIGNATED SEATING POSITION:** Left Rear Passenger

1. Is the seat cushion movable so that the seat back serves a function other than seating? (S7.4.6.1 (b))
   - No, go to 2

2. Is the seat removable? (S7.4.6.1(b))
   - No, go to 3

3. Is the seat movable so that the space formerly occupied by the seat can be used for a secondary function? (S7.4.6.1(b))
   - No, go to 4

4. Is the webbing designed to pass through the seat cushion or between the seat cushion and seat back? (S7.4.6.1(a))
   - Yes, go to 5

5. Does one of the following three parts, the seat belt latch plate, the buckle, or the seat belt webbing, stay on top of or above the seat cushion under normal conditions (i.e., conditions other than when belt hardware is intentionally pushed behind the seat by a vehicle occupant)? (S7.4.6.1(a))
   - Yes – Pass
   - No – Fail
   Identify the part(s) on top or above the seat.
   - Seat belt latch plate
   - Buckle
   - Seat belt webbing

6. Are the remaining two seat belt parts accessible under normal conditions?
   - Yes – Pass
   - No – Fail

7. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the belt is completely retracted or, if the belt is nonretractable, the belt is unlatched. (S7.4.6.2)
   - Yes – Pass
   - No – Fail
8. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat is moved to any position to which it is designed to be adjusted. (S7.4.6.2)
   - Yes – Pass
   - No – Fail

9. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat back, if foldable, is folded forward as far as possible and then moved backward into position. (S7.4.6.2)
   - Yes – Pass
   - No – Fail

10. Is the inboard receptacle end of the seat belt assembly, installed in the front outboard designated seating position, accessible with the center armrest in any position to which it can be adjusted (without moving the armrest)? (S7.4.6.2)
    - Yes – Pass
    - No – Fail
    - N/A – Rear seat

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________
Date:  04/01/04
Test seat belts except those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

**DESIGNATED SEATING POSITION:** Center Rear Passenger

1. **Is the seat cushion movable so that the seat back serves a function other than seating?** (S7.4.6.1 (b))
   - [ ] Yes, this form is complete
   - [X] No, go to 2

2. **Is the seat removable?** (S7.4.6.1(b))
   - [ ] Yes, this form is complete
   - [X] No, go to 3

3. **Is the seat movable so that the space formerly occupied by the seat can be used for a secondary function?** (S7.4.6.1(b))
   - [X] Yes, this form is complete
   - [ ] No, go to 4

4. **Is the webbing designed to pass through the seat cushion or between the seat cushion and seat back?** (S7.4.6.1(a))
   - [ ] Yes, go to 5
   - [ ] No, this form is complete

5. **Does one of the following three parts, the seat belt latch plate, the buckle, or the seat belt webbing, stay on top of or above the seat cushion under normal conditions (i.e., conditions other than when belt hardware is intentionally pushed behind the seat by a vehicle occupant)?** (S7.4.6.1(a))
   - [ ] Yes – Pass
   - [ ] No – Fail
   
   Identify the part(s) on top or above the seat.
   - [ ] Seat belt latch plate
   - [ ] Buckle
   - [ ] Seat belt webbing

6. **Are the remaining two seat belt parts accessible under normal conditions?**
   - [ ] Yes – Pass
   - [ ] No – Fail

7. **The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the belt is completely retracted or, if the belt is nonretractable, the belt is unlatched.** (S7.4.6.2)
   - [X] Yes – Pass
   - [ ] No – Fail
8. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat is moved to any position to which it is designed to be adjusted. (S7.4.6.2)
   - Yes – Pass
   - No – Fail

9. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat back, if foldable, is folded forward as far as possible and then moved backward into position. (S7.4.6.2)
   - Yes – Pass
   - No – Fail

10. Is the inboard receptacle end of the seat belt assembly, installed in the front outboard designated seating position, accessible with the center armrest in any position to which it can be adjusted (without moving the armrest)? (S7.4.6.2)
    - Yes – Pass
    - No – Fail
    - N/A – Rear seat

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 04/01/04
Test seat belts except those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

**DESIGNATED SEATING POSITION:** Right Rear Passenger

1. Is the seat cushion movable so that the seat back serves a function other than seating? (S7.4.6.1(b))
   - Yes, this form is complete
   - No, go to 2

2. Is the seat removable? (S7.4.6.1(b))
   - Yes, this form is complete
   - No, go to 3

3. Is the seat movable so that the space formerly occupied by the seat can be used for a secondary function? (S7.4.6.1(b))
   - Yes, this form is complete
   - No, go to 4

4. Is the webbing designed to pass through the seat cushion or between the seat cushion and seat back? (S7.4.6.1(a))
   - Yes, go to 5
   - No, this form is complete

5. Does one of the following three parts, the seat belt latch plate, the buckle, or the seat belt webbing, stay on top of or above the seat cushion under normal conditions (i.e., conditions other than when belt hardware is intentionally pushed behind the seat by a vehicle occupant)? (S7.4.6.1(a))
   - Yes – Pass
   - No – Fail

   Identify the part(s) on top or above the seat.

   - Seat belt latch plate
   - Buckle
   - Seat belt webbing

6. Are the remaining two seat belt parts accessible under normal conditions?
   - Yes – Pass
   - No – Fail

7. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the belt is completely retracted or, if the belt is nonretractable, the belt is unlatched. (S7.4.6.2)
   - Yes – Pass
   - No – Fail
8. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat is moved to any position to which it is designed to be adjusted. (S7.4.6.2)  
   Yes – Pass  
   No – Fail  

9. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat back, if foldable, is folded forward as far as possible and then moved backward into position. (S7.4.6.2)  
   Yes – Pass  
   No – Fail  

10. Is the inboard receptacle end of the seat belt assembly, installed in the front outboard designated seating position, accessible with the center armrest in any position to which it can be adjusted (without moving the armrest)? (S7.4.6.2)  
    Yes – Pass  
    No – Fail  
    N/A – Rear seat  

REMARKS:  
I certify that I have read and performed each instruction.  

Signature: [Signature]  
Date: 04/01/04
1. Driver Designated Seating Position:
   - 1.1 Position the seat’s adjustable lumbar supports so that the lumbar supports are in the lowest, retracted or deflated adjustment positions. (S16.2.10.1)
     - N/A – No lumbar adjustment
   - 1.2 Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position (S16.2.10.2)
     - N/A – No additional support adjustment
   - 1.3 Mark a point (seat cushion reference point) on the side of the seat cushion that is between 150 mm and 250 mm from the front edge of the seat cushion.
   - 1.4 Draw a line (seat cushion reference line) through the seat cushion reference point.
   - 1.5 Using only the controls that primarily move the seat in the fore-aft direction, move the seat cushion reference point to the rearmost position.
   - 1.6 If the seat cushion adjusts fore-aft, independent of the seat back, use only the controls that primarily move the seat cushion in the fore-aft direction to move the seat cushion reference point to the rearmost position (S16.2.10.3)
     - N/A – No independent fore-aft seat cushion adjustment
   - 1.7 Using any part of any control, other than the parts just used for fore-aft positioning, determine the range of angles of the seat cushion reference line and set the seat cushion reference line at the mid-angle.
     - Maximum Angle: 9.4 Degrees, Nose Down
     - Minimum Angle: Zero Degrees
     - Mid-angle: 4.7 Degrees, Nose Down
   - 1.8 If the seat and/or seat cushion height is adjustable, use any part of any control other than those which primarily move the seat or seat cushion fore-aft, to put the seat cushion reference point in its lowest position with the seat cushion reference line angle at the mid-angle found in 1.7.
     - N/A – No seat height adjustment
   - 1.9 Using only the controls that primarily move the seat in the fore-aft direction, verify the seat is in the rearmost position.
   - 1.10 Using only the controls that primarily move the seat in the fore-aft direction, mark for future reference the fore-aft seat positions. Mark each position so that there is a visual indication when the seat is at a particular position. For manual seats, move the seat forward one detent at a time and mark each detent. For power seats, mark only the rearmost, middle, and foremost positions. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the closest adjustment position to the rear of the mid-point), and R for rearmost.
   - 1.11 Use only the controls that primarily move the seat in the fore-aft direction to place the seat in the rearmost position.
   - 1.12 Using any controls, other than the controls that primarily move the seat and/or seat cushion in the fore-aft direction, find and visually mark for future reference the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.7.
1.13 Using only the controls that primarily move the seat and/or seat cushion in the fore-aft direction, place the seat in the mid-fore-aft position.

1.14 Using any controls, other than the controls that primarily move the seat in the fore-aft direction, find and visually mark for future reference the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.7.

1.15 Using only the controls that change the seat in the fore-aft direction, place the seat in the foremost position.

1.16 Using any controls, other than the controls that primarily move the seat in the fore-aft direction, find and visually mark for future reference the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.7.

1.17 Visually mark for future reference the seat back angle, if adjustable, at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer.

N/A – No seat back angle adjustment
Manufacturer's design seat back angle: 3

1.18 Is the seat a bucket seat?

Yes, go to 1.18.1 and skip 1.18.2
No, go to 1.18.2 and skip 1.18.1

1.18.1 Bucket seats:
Locate and mark for future reference the longitudinal centerline of the seat cushion.
The longitudinal centerline of a bucket seat cushion is determined at the widest part of the seat cushion. Measure perpendicular to the longitudinal centerline of the vehicle. (S16.3.1.10)

Record the width of the seat cushion: 526 mm
One half the width of the seat cushion is: 263 mm
Record the distance from the edge of the seat cushion to the seat mark: 263 mm

1.18.2 Bench seats:
Locate and mark for future reference the longitudinal line on the seat cushion that marks the longitudinal vertical plane through the centerline of the steering wheel.

2. Passenger Designated Seating Position

2.1 Is the seat adjustable independent of the driver seating position?

Yes, go to 2.2
No, go to 2.18

2.2 Position the seat's adjustable lumbar supports so that the lumbar supports are in the lowest, retracted or deflated adjustment positions (S16.2.10.1, S20.1.9.1, S22.1.7.1)

N/A – No lumbar adjustment

2.3 Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2, S20.1.9.2, S22.1.7.2)

N/A – No additional support adjustment

2.4 Mark a point (seat cushion reference point) on the side of the seat cushion that is between 150 mm and 250 mm from the front edge of the seat cushion.

2.5 Draw a line (seat cushion reference line) through the seat cushion reference point.

2.6 Using only the controls that primarily move the seat in the fore-aft direction, move the seat cushion reference point to the rearmost position.
2.7 If the seat cushion adjusts fore-aft, independent of the seat back, use only the controls that primarily move the seat cushion in the fore-aft direction to move the seat cushion reference point to the rearmost position (S16.2.10.3, S20.1.9.3, S22.1.7.3) N/A – No independent fore-aft seat cushion adjustment.

2.8 Using any part of the control, other than the parts just used for fore-aft positioning, determine the range of angles of the seat cushion reference line and set the seat cushion reference line at the mid-angle.

Maximum Angle: Zero Degrees
Minimum Angle: Zero Degrees
Mid-angle: Zero Degrees

2.9 If the seat and/or seat cushion height is adjustable, use any part of any control other than those which primarily move the seat or seat cushion fore-aft, to put the seat cushion reference point in its lowest position with the seat cushion reference line angle at the mid-range angle.

N/A – No seat height adjustment

2.10 Using only the controls that primarily move the seat and/or seat cushion in the fore-aft direction, verify the seat is in the rearmost position.

2.11 Using only the controls that primarily move the seat in the fore-aft direction, mark for future reference the fore-aft seat positions. Mark each position so that there is a visual indication when the seat is at a particular position. For manual seats, move the seat forward one detent at a time and mark each detent. For power seats, mark only the rearmost, middle, and foremost positions. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the closest adjustment position to the rear of the mid-point), and R for rearmost.

2.12 Using only the controls that primarily move the seat in the fore-aft direction, place the seat in the rearmost position.

2.13 Using any controls, other than the controls that primarily move the seat in the fore-aft direction, find and visually mark for future reference the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 2.8.

N/A – No seat height adjustment Go to 2.18

2.14 Using only the controls that primarily move the seat in the fore-aft direction, place the seat in the mid-fore-aft position.

2.15 Using any controls, other than the controls that primarily move the seat in the fore-aft direction, find and visually mark for future reference the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 2.8.

2.16 Using only the controls that change the seat in the fore-aft direction, place the seat in the foremost position.

2.17 Using any controls, other than the controls that primarily move the seat in the fore-aft direction, find and visually mark for future reference the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 2.8.

2.18 Visually mark for future reference the seat back angle, if adjustable, at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer.
N/A – No seat back angle adjustment

N/A – The seat back angle adjustment is controlled by the setting of the driver seat back angle.

Manufacturer’s design seat back angle: 3

Actual seat back angle: 3.1

2.19 Is the seat a bucket seat?

☐ Yes, go to 2.19.1 and skip 2.19.2

☐ No, go to 2.19.2 and skip 2.19.1

2.19.1 Bucket seats:

☐ Locate and mark for future reference the longitudinal centerline of the seat cushion. (S20.2.1.3, S22.2.1.3) The longitudinal centerline of a bucket seat cushion is determined at the widest part of the seat cushion. Measure perpendicular to the longitudinal centerline of the vehicle. (S20.1.10)

Record the width of the seat cushion: 526 mm

One half the width of the seat cushion is: 263 mm

3. Head Restraints

☐ N/A, vehicle contains automatic head restraints

☐ N/A, there is no head restraint adjustment

3.1 Left outboard

3.1.1 Adjust the head restraint to its lowest position. (S16.3.4.2)

3.1.2 Any adjustment of the head restraint shall be used to position it full forward. For example, if it rotates, rotate it such that the head restraint extends as far forward as possible. Mark the foremost position.

3.1.3 Measure the vertical distance from the top most point of the head restraint to the bottom most point. Locate and mark a horizontal plane through the midpoint of this distance.

Vertical height of head restraint (mm): 208

Mid-point height (mm): 104

3.2 Right outboard

3.2.1 Adjust the head restraint to its lowest position. (S16.3.4.2)

3.2.2 Any adjustment of the head restraint shall be used to position it full forward. For example, if it rotates, rotate it such that the head restraint extends as far forward as possible. Mark the foremost position.

3.2.3 Measure the vertical distance from the top most point of the head restraint to the bottom most point. Locate and mark a horizontal plane through the midpoint of this distance.
Vertical height of head restraint (mm): 209
Mid-point height (mm): 104

4. Steering Wheel

4.1 Is the steering wheel adjustable up and down and/or in and out?
X Yes, go to 4.2
□ No, this form is complete

4.2 Find and mark for future reference each up and down position. Label three of the positions with the following: H for highest, M for mid-position (if there is no mid-position, label the next lowest adjustment position), and L for lowest.
□ N/A, steering wheel is not adjustable up and down

4.3 Find and mark for future references each in and out position. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the next rearmost adjustment position), and R for rearmost.
□ N/A, steering wheel is not adjustable in and out

5. Driver Low Risk Deployment
□ N/A, no low risk deployment tests scheduled

5.1 Position the steering wheel so the front wheels are in the straight-ahead position. (S26.2.1)

5.2 Position any adjustable parts of the steering controls to the mid-position as determined in item 3 above. If a mid-position adjustment is not achievable, position the controls to the next lowest detent position. (S26.2.1)

5.3 Locate the vertical plane parallel to the vehicle longitudinal centerline through the geometric center of the opening through which the driver air bag deploys into the occupant compartment. This is referred to as "Plane E". (Check determination method below.) (S26.2.6)
□ Plane E determined using manufacturer’s information supplied by the COTR. (Found in Appendix D on page D-42) OR □ Plane E determined by test lab personnel and approved by the COTR. (Include supporting documentation in the test report.)

<table>
<thead>
<tr>
<th>&quot;Plane E&quot; Measurement::</th>
<th>Ey (mm)</th>
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<tbody>
<tr>
<td>Measured:</td>
<td></td>
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<tr>
<td>Specified:</td>
<td></td>
</tr>
<tr>
<td>Verify Measured Equals Specified +/- 6mm:</td>
<td></td>
</tr>
</tbody>
</table>

5.4 Locate the horizontal plane through the highest point of the air bag module cover. This is referred to as "Plane F." (Check determination method below.) (S26.2.6)
□ Plane F determined using manufacturer’s information supplied by the COTR. (Found in Appendix D on page D-42) OR □ Plane F determined by test lab personnel and approved by the COTR. (Include supporting documentation in the test report.)

<table>
<thead>
<tr>
<th>&quot;Plane F&quot; Measurement::</th>
<th>Fz (mm)</th>
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<tr>
<td>Specified:</td>
<td></td>
</tr>
<tr>
<td>Verify Measured Equals Specified +/- 6mm:</td>
<td></td>
</tr>
</tbody>
</table>
6. Passenger Low Risk Deployment – Planes C and D
   X N/A, no low risk deployment tests scheduled

6.1 Locate the horizontal plane through the geometric center of the opening through which the right front air bag deploys into the occupant compartment. This is referred to as "Plane C." (Check location method below.) (S22.4.1.3)
   Plane C located using manufacturer’s information supplied by the COTR. (Include manufacturer’s information in the test report.) OR
   Plane C located by test lab personnel and approved by the COTR. (Include supporting documentation in the test report.)

<table>
<thead>
<tr>
<th>Cz (mm)</th>
<th>“Plane C” Measurement:</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Specified:</td>
</tr>
<tr>
<td></td>
<td>Verify Measured Equals Specified +/- 6mm:</td>
</tr>
</tbody>
</table>

6.2 Locate the vertical plane parallel to the vehicle longitudinal centerline through the geometric center of the opening through which the right front air bag deploys into the occupant compartment. This is referred to as "Plane D." (Check determination method below.) (S22.4.1.2)
   Plane D determined using manufacturer’s information supplied by the COTR. (Include manufacturer’s information in the test report.) OR
   Plane D determined by test lab personnel and approved by the COTR. (Include supporting documentation in the test report.)

<table>
<thead>
<tr>
<th>Dy (mm)</th>
<th>“Plane D” Measurement:</th>
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<tbody>
<tr>
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<td>Measured:</td>
</tr>
<tr>
<td></td>
<td>Specified:</td>
</tr>
<tr>
<td></td>
<td>Verify Measured Equals Specified +/- 6mm:</td>
</tr>
</tbody>
</table>

6.3 Mark the intersection of Planes C and D on the instrument panel.

7. 5’th Female Dummy
   Mark a point on the chin of the dummy 40 mm below the center of the mouth. (Chin Point) (S26.2.6)

8. 6-Year-Old Dummy
   Locate and mark a point on the front of the dummy’s chest jacket on the midsaggital plane which is 139 mm (5.5 in) ± 3 mm (± 0.1 in) along the surface of the skin down from the top of the skin at the neck line. Designate this point as "Point 1." (S24.4.1.1)

   “Point 1” measurement (mm): |

9. 3-Year-Old Dummy
   Locate and mark a point on the front of the dummy’s chest jacket on the midsaggital plane which is 114 mm (4.5 in) ± 3 mm (± 0.1 in) along the surface of the skin down from the top of the skin at the neck line. Designate this point as "Point 1." (S22.4.1.1)

   “Point 1” measurement (mm +/- 3 mm): |

REMARKS:
I certify that I have read and performed each instruction.

Signature: ____________________  Date: 06/03/04
DATA SHEET 15 SUMMARY
Suppression Test Using 12-month-old CRABI Dummy  (Part 572, Subpart R)
Section B  Rear Facing CRS

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>TEST DATE:</th>
<th>4-12-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>TECHNICIANS:</td>
<td>MGA</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>DUMMY SERIAL NO.:</td>
<td>12 Month Old</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>CHILD RESTRAINT NAME:</th>
<th>Britax</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHILD RESTRAINT MODEL:</td>
<td>Handle With Care 191</td>
</tr>
<tr>
<td>DATE OF MANUFACTURE:</td>
<td>5-26-2000</td>
</tr>
</tbody>
</table>

Base: __On  __Off  _X_ N/A-Restraint does not have a removable base

Manufacturer’s design seat back angle: 3.0° On Headrest Post
Tested seat back angle: 3.0° On Headrest Post
Manufacturer’s specified anchorage position: 2nd Down
Tested anchorage position: 2nd Down

A blanket and visor were not used in the suppression testing because they did not affect the weight sensing system used on the vehicle.

### Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>Handle Down</th>
<th>Handle Up</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward (60mm)*</td>
<td>134</td>
<td>Suppressed</td>
<td>N/A</td>
</tr>
<tr>
<td>Rear</td>
<td>Middle</td>
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<td>Suppressed</td>
<td>N/A</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>130</td>
<td>Suppressed</td>
<td>N/A</td>
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<tr>
<td>Unbelted</td>
<td>Forward (60mm)*</td>
<td>N/A</td>
<td>Suppressed</td>
<td>N/A</td>
</tr>
<tr>
<td>Rear</td>
<td>Middle</td>
<td>N/A</td>
<td>Suppressed</td>
<td>N/A</td>
</tr>
<tr>
<td>Facing</td>
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<td>Unbelted</td>
<td>Forward (50mm)*</td>
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<tr>
<td>Forward</td>
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<td>Suppressed</td>
<td>N/A</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN513)

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 = Full Forward; 240 = Full Rearward; 240mm total Seat Slide travel)
**DATA SHEET 15 SUMMARY**

Suppression Test Using 12-month-old CRABI Dummy  (Part 572, Subpart R)

Section B  Rear Facing CRS

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C45102</th>
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<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL/TB</td>
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<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>082</td>
</tr>
</tbody>
</table>

**CHILD RESTRAINT NAME:** Evenflo  
**CHILD RESTRAINT MODEL:** First Choice 204  
**DATE OF MANUFACTURE:** 6-20-2000

Base: __On  __Off  _X_ N/A-Restraint does not have a removable base

Manufacturer’s design seat back angle: 3.0° On Headrest Post  
Tested seat back angle: 3.0° On Headrest Post

Manufacturer’s specified anchorage position: 2nd Down  
Tested anchorage position: 2nd Down

A blanket and visor were not used in the suppression testing because they did not affect the weight sensing system used on the vehicle.

### Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>Handle Down</th>
<th>Handle Up</th>
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<tbody>
<tr>
<td>Belted</td>
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<td>N/A</td>
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<tr>
<td>Facing</td>
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<td>Suppressed</td>
<td>N/A</td>
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<tr>
<td>Unbelted</td>
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<td>N/A</td>
<td>Does Not Fit</td>
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<tr>
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<td>N/A</td>
<td>Suppressed</td>
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<tr>
<td></td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN513)

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 = Full Forward; 240 = Full Rearward; 240mm total Seat Slide travel)
# DATA SHEET 15 SUMMARY

**Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart R)**

## Section B  Rear Facing CRS

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C45102</th>
<th>TEST DATE:</th>
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<tbody>
<tr>
<td>LABORATORY:</td>
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<td>TECHNICIANS:</td>
<td>JL/TB</td>
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<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>082</td>
</tr>
</tbody>
</table>

**CHILD RESTRAINT NAME:** Graco  
**CHILD RESTRAINT MODEL:** Infant 8457  
**DATE OF MANUFACTURE:** 8-31-2000

Base: **X** On  **N/A**-Restraint does not have a removable base

- **Manufacturer’s design seat back angle:** 3.0° On Headrest Post
- **Tested seat back angle:** 3.0° On Headrest Post
- **Manufacturer’s specified anchorage position:** 2nd Down
- **Tested anchorage position:** 2nd Down

A blanket and visor were not used in the suppression testing because they did not affect the weight sensing system used on the vehicle.

## Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>Handle Down</th>
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<tr>
<td>Belted Rear Facing</td>
<td>Forward (100mm)*</td>
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<td>Middle</td>
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<td>N/A</td>
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<td></td>
<td>Rearward</td>
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<td>Suppressed</td>
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<tr>
<td></td>
<td>Middle</td>
<td>N/A</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
<td>N/A</td>
</tr>
<tr>
<td>Unbelted Forward Facing</td>
<td>Forward (50mm)*</td>
<td>N/A</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>N/A</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
<td>N/A</td>
</tr>
</tbody>
</table>

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 = Full Forward; 240 = Full Rearward; 240mm total Seat Slide travel)
DATA SHEET 15 SUMMARY
Suppression Test Using 12-month-old CRABI Dummy  (Part 572, Subpart R)
Section B  Rear Facing CRS

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C45102</th>
<th>TEST DATE:</th>
<th>4-12-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL/TB</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>082</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CHILD RESTRAINT NAME:</th>
<th>Graco</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHILD RESTRAINT MODEL:</td>
<td>Infant 8457</td>
</tr>
<tr>
<td>DATE OF MANUFACTURE:</td>
<td>8-31-2000</td>
</tr>
</tbody>
</table>

Base: ___On  ___Off  ___N/A-Restraint does not have a removable base

Manufacturer’s design seat back angle: 3.0° On Headrest Post
Tested seat back angle: 3.0° On Headrest Post
Manufacturer’s specified anchorage position: 2nd Down
Tested anchorage position: 2nd Down

A blanket and visor were not used in the suppression testing because they did not affect the weight sensing system used on the vehicle.

### Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>Handle Down</th>
<th>Handle Up</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward</td>
<td>N/A</td>
<td>Does Not Fit</td>
<td>N/A</td>
</tr>
<tr>
<td>Rear</td>
<td>Middle</td>
<td>130</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>128</td>
<td>Suppressed</td>
<td>N/A</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Forward</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Rear</td>
<td>Middle</td>
<td>N/A</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN513)
DATA SHEET 15 SUMMARY
Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart R)
Section C Forward Facing Convertible CRS

<table>
<thead>
<tr>
<th>NHTSA No.</th>
<th>C45102</th>
<th>TEST DATE:</th>
<th>4-07-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL/TB</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>082</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CHILD RESTRAINT NAME:</th>
<th>Britax</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHILD RESTRAINT MODEL:</td>
<td>Roundabout 161</td>
</tr>
<tr>
<td>DATE OF MANUFACTURE:</td>
<td>7-21-2000</td>
</tr>
</tbody>
</table>

Base: __On __Off _X N/A-Restraint does not have a removable base

Manufacturer’s design seat back angle: 3.0° On Headrest Post
Tested seat back angle: 3.0° On Headrest Post
Manufacturer’s specified anchorage position: 2nd Down
Tested anchorage position: 2nd Down

A blanket was not used in the suppression testing because it did not affect the weight sensing system used on the vehicle.

Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>No Blanket</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward (50mm)*</td>
<td>130</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward</td>
<td>Middle</td>
<td>130</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>127</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Forward (50mm)*</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward</td>
<td>Middle</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Belted</td>
<td>Forward</td>
<td>130</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Rear</td>
<td>Middle</td>
<td>134</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>133</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Forward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Unbelted 5th percentile Female Dummy Reactivation was not performed.

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 = Full Forward; 240 = Full Rearward; 240mm total Seat Slide travel)
DATA SHEET 15 SUMMARY
Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart R)
Section C  Forward Facing Convertible CRS

<table>
<thead>
<tr>
<th>NHTSA No.</th>
<th>C45102</th>
<th>TEST DATE:</th>
<th>4-07-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL/TB</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>082</td>
</tr>
</tbody>
</table>

CHILD RESTRAINT NAME:  Century
CHILD RESTRAINT MODEL:  Encore 4612
DATE OF MANUFACTURE:  8-16-2000

Base: ___On ___Off ___X N/A-Restraint does not have a removable base

Manufacturer’s design seat back angle:  3.0° On Headrest Post
Tested seat back angle:  3.0° On Headrest Post
Manufacturer’s specified anchorage position:  2nd Down
Tested anchorage position:  2nd Down

A blanket was not used in the suppression testing because it did not affect the weight sensing system used on the vehicle.

**Test Summary**

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>No Blanket</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward (40mm)*</td>
<td>127</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward</td>
<td>Middle</td>
<td>130</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>131</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Forward (40mm)*</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward</td>
<td>Middle</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Belted</td>
<td>Rear</td>
<td>130</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Rear</td>
<td>Middle</td>
<td>132</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>132</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Rear</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Rear</td>
<td>Middle</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN513)

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 = Full Forward; 240 = Full Rearward; 240mm total Seat Slide travel)
DATA SHEET 15 SUMMARY
Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart R)
Section C Forward Facing Convertible CRS

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C45102</th>
<th>TEST DATE:</th>
<th>4-07-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL/TB</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>082</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CHILD RESTRAINT NAME:</th>
<th>Evenflo</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHILD RESTRAINT MODEL:</td>
<td>Medallion 254</td>
</tr>
<tr>
<td>DATE OF MANUFACTURE:</td>
<td>6-1-2000</td>
</tr>
</tbody>
</table>

Base: ___On ___Off __X N/A-Restraint does not have a removable base

Manufacturer’s design seat back angle: 3.0° On Headrest Post
Tested seat back angle: 3.0° On Headrest Post
Manufacturer’s specified anchorage position: 2nd Down
Tested anchorage position: 2nd Down

A blanket was not used in the suppression testing because it did not affect the weight sensing system used on the vehicle.

Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>No Blanket</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward (25mm)*</td>
<td>130</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward</td>
<td>Middle</td>
<td>127</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>129</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Forward (25mm)*</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward</td>
<td>Middle</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Belted</td>
<td>Rearward</td>
<td>130</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Rear</td>
<td>Middle</td>
<td>134</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>134</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Rear</td>
<td>Middle</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN513)

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 = Full Forward; 240 = Full Rearward; 240mm total Seat Slide travel)
DATA SHEET 16 SUMMARY
Suppression Test Using Newborn Infant Dummy  (Part 572, Subpart K)
Section A Car Bed

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C45102</th>
<th>TEST DATE:</th>
<th>4-12-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL/TB</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>Newborn Infant</td>
<td>DUMMY SERIAL NO.:</td>
<td>003</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAR BED NAME:</th>
<th>Cosco</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAR BED MODEL:</td>
<td>Dream Ride 02-719</td>
</tr>
<tr>
<td>DATE OF MANUFACTURE:</td>
<td>6-16-2000</td>
</tr>
</tbody>
</table>

Base: __On  __Off  _X_ N/A-Restraint does not have a removable base
(A car bed with a removable base shall be treated as two separate models, i.e. this form and test procedure will be completed with the base on and then repeated on a new form with the base off.

Manufacturer’s design seat back angle:    3.0° On Headrest Post
Tested seat back angle:                   3.0° On Headrest Post
Manufacturer’s specified anchorage position: 2^{nd} Down
Tested anchorage position:                 2^{nd} Down

A blanket and visor were not used in the suppression testing because they did not affect the weight sensing system used on the vehicle.

Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Handle Down</th>
<th>Handle Up</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Forward</td>
<td>Suppressed</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>Suppressed</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>Suppressed</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Successful Unbelted 5^{th} percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN513)
DATA SHEET 17 SUMMARY
Suppression Test Using 3 Year Old Dummy And Booster Seats (Part 572, Subpart P)
Section D  Forward Facing Belt Positioning Booster

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C45102</th>
<th>TEST DATE:</th>
<th>4-08-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL/TB</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>3 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>031</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BOOSTER SEAT NAME:</th>
<th>Century</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOOSTER SEAT MODEL:</td>
<td>Next Step 4920</td>
</tr>
<tr>
<td>DATE OF MANUFACTURE:</td>
<td>8-16-2000</td>
</tr>
</tbody>
</table>

Manufacturer’s design seat back angle: 3.0° On Headrest Post
Tested seat back angle: 3.0° On Headrest Post
Manufacturer’s specified anchorage position: 2nd Down
Tested anchorage position: 2nd Down

Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>No Blanket</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward (30mm)*</td>
<td>9</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward Facing Without Harness</td>
<td>Middle</td>
<td>12</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>14</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Belted</td>
<td>Forward (25mm)*</td>
<td>127</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward Facing Cinched With Harness</td>
<td>Middle</td>
<td>128</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>134</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN513)

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 = Full Forward; 240 = Full Rearward; 240mm total Seat Slide travel)
DATA SHEET 17 SUMMARY
Suppression Test Using 3 Year Old Dummy And Booster Seats (Part 572, Subpart P)
Section D  Forward Facing Toddler Belt Positioning Booster Seat

NHTSA No.: C45102  TEST DATE:  4-08-04
LABORATORY: MGA  TECHNICIANS: JL/TB
DUMMY TYPE: 3 Year Old  DUMMY SERIAL NO.: 031

BOOSTER SEAT NAME: Cosco
BOOSTER SEAT MODEL: High Back Booster 02-442
DATE OF MANUFACTURE: 4-28-2000

Manufacturer’s design seat back angle: 3.0° On Headrest Post
Tested seat back angle: 3.0° On Headrest Post
Manufacturer’s specified anchorage position: 2nd Down
Tested anchorage position: 2nd Down

Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>No Blanket</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward (50mm)*</td>
<td>10</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward Facing Without Harness</td>
<td>Middle</td>
<td>10</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>13</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Belted</td>
<td>Forward (40mm)*</td>
<td>130</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward Facing Cinched With Harness</td>
<td>Middle</td>
<td>134</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>134</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN513)

The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 = Full Forward; 240 = Full Rearward; 240mm total Seat Slide travel)
DATA SHEET 18 SUMMARY
Suppression Test Using 3 Year Old Dummy And Convertible Restraints (Part 572, Subpart P)
Section C  Forward Facing Convertible CRS

NHTSA No.: C45102 TEST DATE: 4-08-04
LABORATORY: MGA TECHNICIANS: JL/TB
DUMMY TYPE: 3 Year Old DUMMY SERIAL NO.: 031

CHILD RESTRAINT NAME: Britax
CHILD RESTRAINT MODEL: Roundabout 161
DATE OF MANUFACTURE: 7-21-2000

Manufacturer’s design seat back angle: 3.0° On Headrest Post
Tested seat back angle: 3.0° On Headrest Post
Manufacturer’s specified anchorage position: 2nd Down
Tested anchorage position: 2nd Down

Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward (75mm)*</td>
<td>130</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>131</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>134</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN513)

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 = Full Forward; 240 = Full Rearward; 240mm total Seat Slide travel)
DATA SHEET 18 SUMMARY
Suppression Test Using 3 Year Old Dummy And Convertible Restraints (Part 572, Subpart P)
Section C Forward Facing Convertible CRS

| NHTSA No.: | C45102 | TEST DATE: | 4-08-04 |
| LABORATORY: | MGA | TECHNICIANS: | JL/TB |
| DUMMY TYPE: | 3 Year Old | DUMMY SERIAL NO.: | 031 |

| CHILD RERAINT NAME: | Century |
| CHILD RESTRAINT MODEL: | Encore 4612 |
| DATE OF MANUFACTURE: | 8-16-2000 |

Manufacturer’s design seat back angle: 3.0° On Headrest Post
Tested seat back angle: 3.0° On Headrest Post
Manufacturer’s specified anchorage position: 2nd Down
Tested anchorage position: 2nd Down

Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward (50mm)*</td>
<td>127</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>130</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>129</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the middle position. (SN513)

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 = Full Forward; 240 = Full Rearward; 240mm total Seat Slide travel)
DATA SHEET 18 SUMMARY
Suppression Test Using 3 Year Old Dummy And Convertible Restraints (Part 572, Subpart P)
Section C  Forward Facing Convertible CRS

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C45102</th>
<th>TEST DATE:</th>
<th>4-08-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL/TB</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>3 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>031</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CHILD RESTRAINT NAME:</th>
<th>Evenflo</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHILD RESTRAINT MODEL:</td>
<td>Medallion 254</td>
</tr>
<tr>
<td>DATE OF MANUFACTURE:</td>
<td>6-1-2000</td>
</tr>
</tbody>
</table>

Manufacturer’s design seat back angle: 3.0° On Headrest Post
Tested seat back angle: 3.0° On Headrest Post
Manufacturer’s specified anchorage position: 2nd Down
Tested anchorage position: 2nd Down

Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward (30mm)*</td>
<td>128</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>134</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>130</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the foremost position. (SN513)

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 = Full Forward; 240 = Full Rearward; 240mm total Seat Slide travel)
### Test Summary

<table>
<thead>
<tr>
<th>Position</th>
<th>Seat Slide</th>
<th>Seat Back Angle</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position 1</td>
<td>Forward (60mm)*</td>
<td>3.0</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Sitting on seat with back against seat back</td>
<td>Middle</td>
<td>3.0</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>3.0</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Position 2</td>
<td>Forward</td>
<td>28.0</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Sitting on seat with back against reclined seat back</td>
<td>Middle</td>
<td>28.0</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>28.0</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Position 3</td>
<td>Forward (85mm)*</td>
<td>3.0</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Sitting on seat with back not against seat back</td>
<td>Middle</td>
<td>3.0</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>3.0</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Position 4</td>
<td>Forward</td>
<td>3.0</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Sitting on seat edge, spine vertical, hands at dummy's sides</td>
<td>Middle</td>
<td>3.0</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>3.0</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Position 5</td>
<td>Forward</td>
<td>3.0</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Standing on seat, facing forward</td>
<td>Middle</td>
<td>3.0</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>3.0</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Position 6</td>
<td>Forward</td>
<td>3.0</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Kneeling on seat, facing forward</td>
<td>Middle</td>
<td>3.0</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>3.0</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Position 7</td>
<td>Forward</td>
<td>3.0</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Kneeling on seat, facing rearward</td>
<td>Middle</td>
<td>3.0</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>3.0</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Position 8</td>
<td>Forward</td>
<td>3.0</td>
<td>N/A</td>
</tr>
<tr>
<td>Lying on seat. (Three designated seating positions only)</td>
<td>Middle</td>
<td>3.0</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>3.0</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the middle position. (SN513)

* The ATD would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 = Full Forward; 240 = Full Rearward; 240mm total Seat Slide travel)
DATA SHEET 20 SUMMARY
Suppression Test Using 6 Year Old Dummy And Booster Seats (Part 572, Subpart N)
Section D  Forward Facing Toddler Belt Positioning Booster Seat

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C45102</th>
<th>TEST DATE:</th>
<th>4-08-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JUTB</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>6 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>152</td>
</tr>
</tbody>
</table>

| BOOSTER SEAT NAME: | Century           | BOOSTER SEAT MODEL: | Next Step 4920 | DATE OF MANUFACTURE: | 8-16-2000 |

Manufacturer’s design seat back angle: 3.0° On Headrest Post
Tested seat back angle: 3.0° On Headrest Post
Manufacturer’s specified anchorage position: 2nd Down
Tested anchorage position: 2nd Down

<table>
<thead>
<tr>
<th>Test Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seat Belt</td>
</tr>
<tr>
<td>Belted</td>
</tr>
<tr>
<td>Forward</td>
</tr>
<tr>
<td>Middle</td>
</tr>
<tr>
<td>Rearward</td>
</tr>
</tbody>
</table>

| Unbelted   |            |              |          |
| Forward    |            | N/A          | Suppressed |
| Middle     |            | N/A          | Suppressed |
| Rearward   |            | N/A          | Suppressed |

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN513)
**DATA SHEET 20 SUMMARY**
Suppression Test Using 6 Year Old Dummy And Booster Seats (Part 572, Subpart N)
Section D  Forward Facing Toddler Belt Positioning Booster Seat

<table>
<thead>
<tr>
<th>NHTSA No.</th>
<th>C45102</th>
<th>TEST DATE:</th>
<th>4-08-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL/TB</td>
</tr>
<tr>
<td>DUMMY TYPE</td>
<td>6 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>152</td>
</tr>
<tr>
<td>BOOSTER SEAT NAME:</td>
<td>Cosco</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BOOSTER SEAT MODEL:</td>
<td>High Back Booster 02-442</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DATE OF MANUFACTURE:</td>
<td>4-28-2000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Manufacturer’s design seat back angle: 3.0° On Headrest Post
Tested seat back angle: 3.0° On Headrest Post
Manufacturer’s specified anchorage position: 2nd Down
Tested anchorage position: 2nd Down

**Test Summary**

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Forward</td>
<td>15</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>13</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>16</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN513)
DATA SHEET 20 SUMMARY

Suppression Test Using 6-Year-Old Dummy And Booster Seats (Part 572, Subpart N)
Section D  Forward Facing Toddler Belt Positioning Booster Seat

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C45102</th>
<th>TEST DATE:</th>
<th>4-08-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL/TB</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>6 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>152</td>
</tr>
<tr>
<td>BOOSTER SEAT NAME:</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>BOOSTER SEAT MODEL:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DATE OF MANUFACTURE:</td>
<td></td>
<td></td>
<td>6-26-2000</td>
</tr>
</tbody>
</table>

Manufacturer’s design seat back angle: 3.0° On Headrest Post
Tested seat back angle: 3.0° On Headrest Post
Manufacturer’s specified anchorage position: 2nd Down
Tested anchorage position: 2nd Down

Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Forward</td>
<td>11</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>16</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>14</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN513)
Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN513)

* The ATD would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft position with respect to the foremost position. (0 = Full Forward; 240 = Full Rearward; 240mm total Seat Slide travel)
DATA SHEET 27 SUMMARY
Low Risk Deployment Tests Using an Unbelted 5th Percentile Female Dummy (Part 572, Subpart O) (S26) Position 1 - Chin On Module (S26.2)

NHTSA No.: C45102  TEST DATE:  4-15-04
LABORATORY: MGA  TECHNICIANS: WD/DW/BR
DUMMY TYPE: 5th Percentile Female  DUMMY SERIAL NO.:  511

Manufacturer’s design seat back angle:  3.0° On Headrest Post
Tested seat back angle:  3.0° On Headrest Post
Tested seat position:  Full Aft

Tested steering wheel angle:  29.0°
Thorax cavity angle:  35.0°
Chin Point height:  6 mm Above Module

### Air Bag Deployment Timing

<table>
<thead>
<tr>
<th>Stage No.</th>
<th>Firing time (ms)</th>
<th>Recorded firing time (ms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>2</td>
<td>30.0</td>
<td>30.3</td>
</tr>
</tbody>
</table>

### 5th Percentile Female SN 511 Position 1 (Chin On Module)

<table>
<thead>
<tr>
<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Measured Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIC15</td>
<td>700</td>
<td>36</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.3</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>60.9</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.3</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>50.7</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>1.3</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>16.8</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2070 N</td>
<td>896</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>43</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>13</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>6</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>58</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>52</td>
</tr>
</tbody>
</table>

Calculated on data recorded for 125 ms after the initiation of the final stage of air bag deployment designed to deploy in any full frontal rigid barrier crash up to 26 km/h. (S4.11(d))
Second stage fire time of 30 ms; Injuries calculated on 0 ms to 155 ms
DATA SHEET 28 SUMMARY
Low Risk Deployment Tests Using an Unbelted 5th Percentile Female Dummy (Part 572, Subpart O) (S26) Position 2 - Chin On Rim (S26.3)

| NHTSA No.: | C45102 | TEST DATE: | 4-29-04 |
| LABORATORY: | MGA | TECHNICIANS: | WD/DW/BR |
| DUMMY TYPE: | 5th Percentile Female | DUMMY SERIAL NO.: | 506 |

Manufacturer’s design seat back angle: 3.0° On Headrest Post
Tested seat back angle: 3.0° On Headrest Post
Tested seat position: Full Aft

Tested steering wheel angle: 26.5°
Thorax cavity angle: 32.2°
Chin Point height: 0 mm Below Rim

### Air Bag Deployment Timing

<table>
<thead>
<tr>
<th>Stage No.</th>
<th>Firing time (ms)</th>
<th>Recorded firing time (ms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>2</td>
<td>30.0</td>
<td>30.3</td>
</tr>
</tbody>
</table>

### 5th Percentile Female SN 515 Position 2 (Chin On Rim) 1-30-04

<table>
<thead>
<tr>
<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Measured Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIC15</td>
<td>700</td>
<td>160</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.8</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>48.7</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.4</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
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<tr>
<td>Peak Nij (Nce)</td>
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<td>0.0</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>12.4</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
<td>1.0</td>
<td>0.3</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>79.8</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2070 N</td>
<td>1014</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>220</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>11</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>21</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>130</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>173</td>
</tr>
</tbody>
</table>

Calculated on data recorded for 125 ms after the initiation of the final stage of air bag deployment designed to deploy in any full frontal rigid barrier crash up to 26 km/h. (S4.11(d)) Second stage fire time of 30 ms; Injuries calculated on 0 ms to 155 ms
1. Fill the transmission with transmission fluid to the satisfactory range.
2. Drain fuel from vehicle.
3. Run the engine until fuel remaining in the fuel delivery system is used and the engine stops.
4. Record the useable fuel tank capacity supplied by the COTR.
   Useable Fuel Tank Capacity supplied by COTR: 72.5 liters (19.2 gallons)
5. Record the fuel tank capacity supplied in the owner's manual.
   Useable Fuel Tank Capacity in owner's manual: 72.5 liters (19.2 gallons)
6. Using purple dyed Stoddard solvent having the physical and chemical properties of Type 1 solvent or cleaning fluid, Table 1, ASTM Standard D484-71, "Standard Specifications for Hydrocarbon Dry-cleaning Solvents," or gasoline, fill the fuel tank.
   Amount Added: 72.5 liters (19.2 gallons)
7. Fill the coolant system to capacity.
8. Fill the engine with motor oil to the Max. mark on the dip stick.
9. Fill the brake reservoir with brake fluid to its normal level.
10. Fill the windshield washer reservoir to capacity.
11. Inflate the tires to the tire pressure on the tire placard. If no tire placard is available, inflate the tires to the recommended pressure in the owner’s manual.
   
   | Tire placard pressure: | RF: 30 psi | LF: 30 psi | RR: 30 psi | LR: 30 psi |
   | Owner’s manual pressure: | RF: 30 psi | LF: 30 psi | RR: 30 psi | LR: 30 psi |
   | Actual inflated pressure: | RF: 30 psi | LF: 30 psi | RR: 30 psi | LR: 30 psi |
12. Record the vehicle weight at each wheel to determine the unloaded vehicle weight (UVW), i.e. "as delivered" weight.
   
   | Right Front (kg): | 533.4 | Right Rear (kg): | 392.4 |
   | Left Front (kg): | 540.7 | Left Rear (kg): | 421.8 |
   | Total Front (kg): | 1074.1 | Total Rear (kg): | 814.2 |
   | % Total Weight: | 56.9 | % Total Weight: | 43.1 |
   | UVW = TOTAL FRONT PLUS TOTAL REAR (KG): | 1888.3 |
13. UVW Test Vehicle Attitude: (All dimensions in millimeters)
   13.1 Mark a point on the vehicle above the center of each wheel.
   13.2 Place the vehicle on a level surface.
13.3 Measure perpendicular to the level surface to the 4 points marked on the body and record the measurements

RF: 828  LF: 820  RR: 821  LR: 815

14. Calculate the Rated Cargo and Luggage Weight (RCLW): 80 kg

14.1 Does the vehicle have the vehicle capacity weight (VCW) on the certification label or tire placard?

X Yes, go to 14.3

X No, go to 14.2

14.2 VCW = Gross Vehicle Weight – UVW

VCW = __________ - __________ = __________

14.3 VCW = 420 kg (925 lbs)

14.4 Does the certification or tire placard contain the Designated Seating Capacity (DSC)?

X Yes, go to 14.6

X No, go to 14.5 and skip 14.6

14.5 DSC = Total number of seat belt assemblies = __________

14.6 DSC = 5

14.7 RCLW = VCW – (68 kg x DSC) = 420 kg - (68 kg x 5 ) = 80 kg

14.8 Is the vehicle certified as a truck, MPV or bus (see the certification label on the door jamb)?

X Yes, if the calculated RCLW is greater than 136 kg, use 136 kg as the RCLW. (S8.1.1)

X No, use the RCLW calculated in 14.7

15. Fully Loaded Weight (100% fuel fill): 2076.6 kg

15.1 Place the appropriate test dummy in both front outboard seating positions.

Driver:  X 5th female  __50th male

Passenger:  X 5th female  __50th male

15.2 Load the vehicle with the RCLW from 14.7 or 14.8 whichever is applicable.

15.3 Place the RCLW in the cargo area. Center the load over the longitudinal centerline of the vehicle. (S8.1.1 (d))

15.4 Record the vehicle weight at each wheel to determine the Fully Loaded Weight.

| Right Front (kg): | 566.5 | Right Rear (kg): | 452.7 |
| Left Front (kg): | 577.0 | Left Rear (kg): | 480.4 |
| Total Front (kg): | 1143.5 | Total Rear (kg): | 933.1 |
| % Total Weight: | 55.1 | % Total Weight: | 44.9 |
| % GVW | 54.6 | % GVW | 54.6 |

Fully Loaded Weight = Total Front Plus Total Rear (kg): 2076.6

16. Fully Loaded Test Vehicle Attitude: (All dimensions in millimeters)

16.1 Place the vehicle on a level surface.
16.2 Measure perpendicular to the level surface to the 4 points marked on the body (see 13.1 above) and record the measurements

<table>
<thead>
<tr>
<th>RF</th>
<th>LF</th>
<th>RR</th>
<th>LR</th>
</tr>
</thead>
<tbody>
<tr>
<td>818</td>
<td>812</td>
<td>804</td>
<td>800</td>
</tr>
</tbody>
</table>

17. Drain the fuel system

18. Using purple dyed Stoddard solvent having the physical and chemical properties of Type 1 solvent or cleaning fluid, Table 1, ASTM Standard D484-71, “Standard Specifications for Hydrocarbon Dry-cleaning Solvents,” fill the fuel tank to 92 - 94 percent of useable capacity.

Fuel tank capacity \( x \cdot 94 \) = 72.5 liters (19.2 gallons) \( x \cdot 94 \) = 68.1 liters (18.0 gallons)

Amount added 68.1 liters (18.0 gallons) 94%

19. Crank the engine to fill the fuel delivery system with Stoddard solvent

20. Calculate the test weight range.

20.1 Calculated Weight = UVW (see 12 above) + RCLW (see 14 above) + 2x(dummy weight)

\[ 2066.3 \text{ kg} = 1888.3 \text{ kg} + 80.0 \text{ kg} + 98.0 \text{ kg} \]

20.2 Test Weight Range = Calculated Weight (- 4.5 kg, - 9 kg.)

Max. Test Weight = Calculated Test Weight – 4.5 kg = 2061.8 kg

Min. Test Weight = Calculated Test Weight – 9 kg = 2057.3 kg

21. Remove the RCLW from the cargo area.

22. Drain transmission fluid, engine coolant, motor oil, and windshield washer fluid from the test vehicle so that Stoddard solvent leakage from the fuel system will be evident.

23. Vehicle Components Removed For Weight Reduction:

- Rear Combination lamp (fender and luggage door side), tool & jack, both outside mirrors, luggage door inner trim, luggage room side trim lower, deck board & tray, luggage cover, spare tire, spare tire cover, hub covers, rear wiper motor, and rear most part of exhaust

24. Secure the equipment and ballast in the load carrying area and distribute it, as nearly as possible, to obtain the proportion of axle weight indicated by the gross axle weight ratings and center it over the longitudinal centerline of the vehicle.

25. If necessary, add ballast to achieve the actual test weight.

N/A

Weight of Ballast:

26. Ballast, including test equipment, must be contained so that it will not shift during the impact event or interfere with data collection or interfere with high-speed film recordings or affect the structural integrity of the vehicle or do anything else to affect test results. Care must be taken to assure that any attachment hardware added to the vehicle is not in the vicinity of the fuel tank or lines.

27. Record the vehicle weight at each wheel to determine the actual test weight.

<table>
<thead>
<tr>
<th>Right Front (kg):</th>
<th>575.6</th>
<th>Right Rear (kg):</th>
<th>434.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Front (kg):</td>
<td>584.7</td>
<td>Left Rear (kg):</td>
<td>466.3</td>
</tr>
<tr>
<td>Total Front (kg):</td>
<td>1160.3</td>
<td>Total Rear (kg):</td>
<td>900.4</td>
</tr>
<tr>
<td>% Total Weight:</td>
<td>43.7</td>
<td>% Total Weight:</td>
<td>56.3</td>
</tr>
<tr>
<td>% GVW</td>
<td>54.6</td>
<td>% GVW</td>
<td>54.6</td>
</tr>
</tbody>
</table>

\[ (% \text{ GVW} = \text{Axle GVW divided by Vehicle GVW}) \]

TOTAL FRONT PLUS TOTAL REAR (kg): 2060.7
28. Is the test weight between the Max. Weight and the Min. Weight (See 20.2)?
   - Yes
   - No, explain why not.

29. Test Weight Vehicle Attitude: (all dimensions in millimeters)
   29.1 Place the vehicle on a level surface
   29.2 Measure perpendicular to the level surface to the 4 points marked on the body (see 13 above) and record the measurements

<table>
<thead>
<tr>
<th>RF</th>
<th>LF</th>
<th>RR</th>
<th>LR</th>
</tr>
</thead>
<tbody>
<tr>
<td>815</td>
<td>809</td>
<td>812</td>
<td>809</td>
</tr>
</tbody>
</table>

30. Summary of test attitude
   30.1 AS DELIVERED:

<table>
<thead>
<tr>
<th>RF</th>
<th>LF</th>
<th>RR</th>
<th>LR</th>
</tr>
</thead>
<tbody>
<tr>
<td>828</td>
<td>820</td>
<td>821</td>
<td>815</td>
</tr>
</tbody>
</table>

   AS TESTED:

<table>
<thead>
<tr>
<th>RF</th>
<th>LF</th>
<th>RR</th>
<th>LR</th>
</tr>
</thead>
<tbody>
<tr>
<td>815</td>
<td>808</td>
<td>812</td>
<td>809</td>
</tr>
</tbody>
</table>

   FULLY LOADED:

<table>
<thead>
<tr>
<th>RF</th>
<th>LF</th>
<th>RR</th>
<th>LR</th>
</tr>
</thead>
<tbody>
<tr>
<td>818</td>
<td>812</td>
<td>804</td>
<td>800</td>
</tr>
</tbody>
</table>

30.2 Is the "as tested" test attitude equal to or between the "fully loaded" and "as delivered" attitude?
   - Yes
   - No, explain why not. Mass distribution altered by 50th% Center Rear Passenger

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 06/03/04
1. Find the location where the vertical plane parallel to the longitudinal centerline of the vehicle and through the center of the left front outboard seating position intersects the left rear seat cross member. Install an accelerometer at this intersection on the rear seat cross member to record x-direction accelerations. Record the location on the following chart.

2. Find the location where the vertical plane parallel to the longitudinal centerline of the vehicle and through the center of the right front outboard seating position intersects the right rear seat cross member. Install an accelerometer at this intersection on the rear seat cross member to record x-direction accelerations. Record the location on the following chart.

3. Find the location where a vertical plane through the longitudinal centerline of the vehicle and a vertical transverse plane through the center of the two wheels on opposite sides of the engine intersect at the top of the engine. Install an accelerometer at this intersection to record x-direction accelerations. Record the location on the following chart.

4. Find the location where a vertical plane through the longitudinal centerline of the vehicle and a vertical transverse plane through the center of the two wheels on opposite sides of the engine intersect the bottom of the engine. Install an accelerometer at this intersection to record x-direction accelerations. Record the location on the following chart.

5. Install an accelerometer on the right front brake caliper to record x-direction accelerations. Record the location on the following chart.

6. Find the location where a vertical plane through the longitudinal centerline of the vehicle intersects the top of the instrument panel. Install an accelerometer at this intersection to record x-direction accelerations. Record the location on the following chart.

7. Install an accelerometer on the left front brake caliper to record x-direction accelerations. Record the location on the following chart.

8. Find the location where a vertical plane through the longitudinal centerline of the vehicle intersects the floor of the trunk. Install an accelerometer on the trunk floor at this intersection to record z-direction accelerations. Record the location on the following chart.

REMARKS:

I certify that I have read and performed each instruction.

Signature:  
Date: 06/03/04
Dimensions Corresponding To The Letters “A” Through “K” (Excluding “I”) Are Recorded In The Table On The Following Page. Accelerometers Corresponding To The Numbers 1 Through 8 Are Specified On The Preceding Page.
### DATA SHEET 31

**VEHICLE ACCELEROMETER LOCATION AND MEASUREMENTS**

<table>
<thead>
<tr>
<th>DIMENSION</th>
<th>LENGTH (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PRETEST VALUES</strong></td>
<td></td>
</tr>
<tr>
<td>A (LH Rear Seat Xmbr)</td>
<td>405</td>
</tr>
<tr>
<td>B (RH Rear Seat Xmbr)</td>
<td>405</td>
</tr>
<tr>
<td>C (Engine Top)</td>
<td>4088</td>
</tr>
<tr>
<td>D (Engine Bottom)</td>
<td>3931</td>
</tr>
<tr>
<td>E (Caliper)</td>
<td></td>
</tr>
<tr>
<td>Right Side</td>
<td>3867</td>
</tr>
<tr>
<td>Left Side</td>
<td>3867</td>
</tr>
<tr>
<td>F (Left Caliper)</td>
<td>690</td>
</tr>
<tr>
<td>G (IP)</td>
<td>3014</td>
</tr>
<tr>
<td>H (Seat)</td>
<td>1820</td>
</tr>
<tr>
<td>J (Right Caliper)</td>
<td>690</td>
</tr>
<tr>
<td>K (Trunk)</td>
<td>906</td>
</tr>
<tr>
<td><strong>POST TEST VALUES</strong></td>
<td></td>
</tr>
<tr>
<td>A (LH Rear Seat Xmbr)</td>
<td>405</td>
</tr>
<tr>
<td>B (RH Rear Seat Xmbr)</td>
<td>405</td>
</tr>
<tr>
<td>C (Engine Top)</td>
<td>3999</td>
</tr>
<tr>
<td>D (Engine Bottom)</td>
<td>3896</td>
</tr>
<tr>
<td>E (Caliper)</td>
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</tr>
<tr>
<td>Right Side</td>
<td>3869</td>
</tr>
<tr>
<td>Left Side</td>
<td>3860</td>
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<tr>
<td>F (Left Caliper)</td>
<td>677</td>
</tr>
<tr>
<td>G (IP)</td>
<td>3010</td>
</tr>
<tr>
<td>H (Seat)</td>
<td>1820</td>
</tr>
<tr>
<td>J (Right Caliper)</td>
<td>677</td>
</tr>
<tr>
<td>K (Trunk)</td>
<td>906</td>
</tr>
</tbody>
</table>
DATA SHEET 32
PHOTOGRAPHIC TARGETS

Test Vehicle: 2004 Lexus RX330
Test Program: FMVSS 208 Compliance
Test Technician: Clark Subrt

NHTSA No.: C45102
Test Date: 6/03/04

IMPACT ANGLE: Zero Degrees
BELTED DUMMIES (YES/NO): No – Front Occupants    Yes – Center Rear Passenger
TEST SPEED: X 32 to 40 kmph  _ 0 to 48 kmph  __ 0 to 56 kmph
DRIVER DUMMY: _X 5th female  _X 50th Male
PASSENGER DUMMY: _X 5th female  X 50th Male Ctr Rear

1. FMVSS 208 vehicle targeting requirements (See Figures 28A and 28B)
   1.1 Targets A1 and A2 are on flat rectangular panels.
   1.2 Three circular targets at least 90 mm in diameter and with black and yellow quadrants are mounted at the front on the outboard sides of A1 and A2. The center of each circular target is 100 mm from the one next to it.
   Distance between targets (mm): 100 mm
   1.3 Three circular targets at least 90 mm in diameter and with black and yellow quadrants are mounted at the back on the outboard sides of on A1 and A2. The center of each circular target is 100 mm from the one next to it.
   Distance between targets (mm): 100 mm
   1.4 The distance between the first circular target at the front of A1 and A2 and the last circular target at the back of A1 and A2 is at least 915 mm.
   Distance between the first and last circular targets (mm): 915 mm
   1.5 Firmly fix target A1 on the vehicle roof in the vertical longitudinal plane that is coincident with the midsagittal plane of the driver dummy.
   1.6 Firmly fix target A2 on the vehicle roof in the vertical longitudinal plane that is coincident with the midsagittal plane of the passenger dummy.
   1.7 Two circular targets (C1 and C2) at least 90 mm in diameter and with black and yellow quadrants are mounted on the outside of the driver door. The centers of each circular target are at least 610 mm apart.
   Distance between targets (mm): 610 mm
   1.8 Two circular targets (C1 and C2) at least 90 mm in diameter and with black and yellow quadrants are mounted on the outside of the passenger door. The centers of each circular target are at least 610 mm apart.
   Distance between targets (mm): 610 mm
   1.9 Place tape with squares having alternating colors on the top portion of the steering wheel.
   1.10 Chalk the bottom portion of the steering wheel
   1.11 Is this an offset test?
      YES, continue with this section
      NO, go to 2.
   1.12 Measure the width of the vehicle.
   Vehicle width (mm):
1.13 Find the centerline of the vehicle. (½ of the vehicle width)

1.14 Find the line parallel to the centerline of the vehicle and 0.1 x vehicle width from the centerline of the vehicle.

1.15 Apply 25 mm wide tape with alternating black and yellow squares parallel to and on each side of the line found in 1.14. The edge of each tape shall be 50 mm from the line found in 1.14. The tape shall extend from the bottom of the bumper to the front edge of the windshield. (Figure 28D

2. Barrier Targeting

2.1 Fix two stationary targets D1 and D2 to the barrier as shown in the Figure 28A. One target is in the vertical longitudinal plane that is coincident with the midsagittal plane of the driver dummy. The other is in the vertical longitudinal plane that is coincident with the midsagittal plane of the passenger dummy

2.2 Targets D1 and D2 are on a rectangular panel.

2.3 Three circular targets at least 90 mm in diameter and with black and yellow quadrants are mounted on the sides of the rectangular panel away from the longitudinal centerline of the vehicle. The center of each circular target is 100 mm from the one next to it.

Distance between circular targets on D1 (mm): 100mm
Distance between circular targets on D2 (mm): 100mm

3. FMVSS 208 Dummy Targeting Requirements

3.1 Place a circular target with black and yellow quadrants on both sides of the driver dummy head as close as possible to the center of gravity of the head in the x and z direction (relative to the measuring directions of the accelerometers).

3.2 Place a circular target with black and yellow quadrants on both sides of the passenger dummy head as close as possible to the center of gravity of the head in the x and z direction (relative to the measuring directions of the accelerometers).

3.3 Place a circular target with black and yellow quadrants on the outboard shoulder of the driver dummy. Place the target as high up on the arm as possible at the intersection of the arm and shoulder. The sleeve of the shirt on the dummy may be cut to make the target visible, but do not remove any material.

3.4 Place a circular target with black and yellow quadrants on the outboard shoulder of the passenger dummy. Place the target as high up on the arm as possible at the intersection of the arm and shoulder. The sleeve of the shirt on the dummy may be cut to make the target visible, but do not remove any material.

4. FMVSS 204 Targeting Requirements

4.1 Is an FMVSS 204 indicant test ordered on the “COTR Vehicle Work Order?”

Yes, continue with this form.

X No, this form is complete. (Removed at manufacturer’s request with COTR approval)

4.2 Resection panel (Figure 28C)

4.2.1 The panel deviates no more than 6 mm from perfect flatness when suspended vertically

4.2.2 The 8 targets on the panel are circular targets at least 90 mm in diameter and with black and yellow quadrants.

4.2.3 The center of each of the 4 outer targets are placed within 1 mm of the corners of a square measuring 914 mm on each side.

4.2.4 Locate another square with 228 mm sides and with the center of this square coincident with the center of the 914 mm square.

4.2.5 The center of the 4 inner targets are placed at the midpoints of each of the 228 mm sides.
4.3  Place a circular target at least 90 mm in diameter and with black and yellow quadrants on a material (cardboard, metal, etc.) that can be taped to the top of the steering column.

4.4  Tape the target from 4.3 to the top of the steering column in a manner that does not interfere with the movement of the steering column in a crash.

REMARKS: Center Rear Passenger Dummy Target Information:

Horizontal distance from camera to dummy reference targets:  783 mm
Horizontal distance from camera to vehicle reference targets:  1215 mm
Distance between 1" reference targets:  76 mm
Reference targets were placed on inch tape for continuous reference.

I certify that I have read and performed each instruction.

Signature:  [Signature]

Date:  06/03/04
REFERENCE PHOTO TARGETS

CONCRETE BARRIER

MONORAIL

COVERED PHOTO PIT

LEFT SIDE VIEW

915 mm

100 mm  100 mm

610 mm

A1

B

C1

C2
RESECTION PANEL TARGETING ALIGNMENT

CAR TOP TARGETS A1 & A2

RESECTION CONTROL POINTS PANEL

STEERING COLUMN TARGET B

REAR VIEW

TEST RUN STEERING COLUMN CAMERA VIEW OF TYPICAL TIME ZERO VEHICLE POSITION

LEFT SIDE VIEW
PRE-RUN STEERING COLUMN HIGH SPEED CAMERA VIEW

LEFT SIDE VIEW

914 mm
<table>
<thead>
<tr>
<th>CAMERA NO.</th>
<th>VIEW</th>
<th>CAMERA POSITIONS (mm) *</th>
<th>LENS (mm)</th>
<th>SPEED (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Real Time Left Side View</td>
<td></td>
<td>13</td>
<td>24</td>
</tr>
<tr>
<td>2</td>
<td>Left Side View (Barrier face to front seat backs)</td>
<td>-960 2970 1700</td>
<td>25</td>
<td>1000</td>
</tr>
<tr>
<td>3</td>
<td>Left Side View (Driver)</td>
<td>-1430 3910 1710</td>
<td>50</td>
<td>1010</td>
</tr>
<tr>
<td>4</td>
<td>Left Side View (B-post aimed toward center of steering wheel)</td>
<td>-5090 5000 2100</td>
<td>50</td>
<td>1047</td>
</tr>
<tr>
<td>5</td>
<td>Left Side View (Steering Column)</td>
<td>-2020 3410 1557</td>
<td>25</td>
<td>1000</td>
</tr>
<tr>
<td>6</td>
<td>Left Side View (Steering Column)</td>
<td>-1980 3340 1030</td>
<td>25</td>
<td>990</td>
</tr>
<tr>
<td>7</td>
<td>Right Side View (Overall)</td>
<td>2200 -2210 1605</td>
<td>13</td>
<td>1000</td>
</tr>
<tr>
<td>8</td>
<td>Right Side View (Passenger)</td>
<td>-1700 -10100 1700</td>
<td>24</td>
<td>1190</td>
</tr>
<tr>
<td>9</td>
<td>Right Side View (Angle)</td>
<td>-5022 -5420 2050</td>
<td>50</td>
<td>1005</td>
</tr>
<tr>
<td>10</td>
<td>Right Side View (Front door)</td>
<td>-1090 -2900 1605</td>
<td>13</td>
<td>952</td>
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<tr>
<td>11</td>
<td>Front View Windshield</td>
<td>150 0 2860</td>
<td>13</td>
<td>939</td>
</tr>
<tr>
<td>12</td>
<td>Front View Driver</td>
<td>120 430 1730</td>
<td>13</td>
<td>1005</td>
</tr>
<tr>
<td>13</td>
<td>Front View Passenger</td>
<td>100 -470 1730</td>
<td>13</td>
<td>1010</td>
</tr>
<tr>
<td>14</td>
<td>Overhead Barrier Impact View</td>
<td>0 0 4340</td>
<td>13</td>
<td>1000</td>
</tr>
<tr>
<td>15</td>
<td>Pit Camera Engine View</td>
<td>-850 0 -3060</td>
<td>13</td>
<td>1010</td>
</tr>
<tr>
<td>16</td>
<td>Pit Camera Fuel Tank View</td>
<td>-2480 0 -3020</td>
<td>13</td>
<td>**</td>
</tr>
<tr>
<td>17</td>
<td>Onboard Rear Passenger View</td>
<td></td>
<td>10</td>
<td>500</td>
</tr>
</tbody>
</table>

* X - film plane to barrier face
Y - film plane to monorail centerline
Z - film plane to ground

** No timing marks
DATA SHEET 34
APPENDIX G
DUMMY POSITIONING PROCEDURES
FOR 5th% DRIVER TEST DUMMY CONFORMING TO SUBPART O OF PART 572

Test Vehicle: 2004 Lexus RX330  
Test Program: FMVSS 208 Compliance  
Test Technician: Eric Peschman

<table>
<thead>
<tr>
<th>IMPACT ANGLE:</th>
<th>Zero Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>BELTED DUMMIES (YES/NO):</td>
<td>No – Front Occupants Yes – Center Rear Passenger</td>
</tr>
<tr>
<td>TEST SPEED:</td>
<td>X 32 to 40 kmph</td>
</tr>
<tr>
<td></td>
<td>_ 0 to 48 kmph</td>
</tr>
<tr>
<td></td>
<td>_ 0 to 56 kmph</td>
</tr>
<tr>
<td>DRIVER DUMMY:</td>
<td>X 5th female</td>
</tr>
<tr>
<td></td>
<td>_ 50th Male</td>
</tr>
<tr>
<td>PASSENGER DUMMY:</td>
<td>X 5th female</td>
</tr>
<tr>
<td></td>
<td>_ 50th Male Ctr Rear</td>
</tr>
</tbody>
</table>

X 1. Position the seat’s adjustable lumbar supports so that the lumbar supports are in the lowest, retracted or deflated adjustment position. (S16.2.10.1)
   __ N/A – No lumbar adjustment

X 2. Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2)
   __ N/A – No additional support adjustment

X 3. If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S16.2.10.3.1)
   __ N/A – No independent fore-aft seat cushion adjustment

X 4. Use the seat markings determined during the completion of Data Sheet 14 to set the rearmost fore-aft position, mid-height position and the seat cushion mid-angle. (S16.3.2.1.1)

X 5. If the vehicle has an adjustable accelerator pedal, place it in the full forward position. (S16.3.2.2.1)
   __ N/A accelerator pedal not adjustable

X 6. Set the steering wheel hub at the geometric center of the full range of driving positions including any telescoping positions as determined in data sheet 14. (S16.2.9)

X 7. Fully recline the seat back. (S16.3.2.1.2)
   __ N/A seat back not adjustable.

X 8. Place the dummy in the seat with the legs at an angle of 120 degrees to the thighs. The calves should not be touching the seat cushion. (S16.3.2.1.2)

X 9. Position the dummy in the seat such that the midsagittal plane is coincident with the longitudinal seat cushion markings as determined in item 1.18 of Data Sheet 14 (S16.3.2.1.3 and S16.3.2.1.4)

X 10. Hold down the dummy’s thighs and push rearward on the upper torso to maximize the pelvic angle. (S16.3.2.1.5)

X 11. Set the angle between the legs and the thighs to 120 degrees. (S16.3.2.1.6)
X 12. Set the transverse distance between the centers of the front of the knees at 160 to 170 mm. (6.3 to 6.7 inches) Center the knee separation with respect to the longitudinal seat cushion marking as determined in item 1.18 of Data Sheet 14. (S16.3.2.1.6) Record Knee Separation  170 mm

X 13. Push rearward on the dummy’s knees until the pelvis contacts the seat back, or the backs of the calves contact the seat cushion, whichever occurs first. (S16.3.2.1.6)
  __Pelvis contacted seat back.
  X Calves contacted seat cushion.

X 14. Gently rock the upper torso ± 5 degrees (approximately 51 mm (2 inches)) side to side three time. (S16.3.2.1.7)

X 15. If needed, extend the legs until the feet do not contact the floor pan. The thighs should be resting on the seat cushion. (S16.3.2.1.8)

X 16. Position the right foot until the foot is in line with a longitudinal vertical plane passing through the center of the accelerator pedal. Maintain the leg and thigh in a vertical plane. (S16.3.2.1.8)

X 17. Rotate the left leg and thigh laterally to equalize the distance between each knee and the longitudinal seat cushion marking as determined in item 1.18 of Data Sheet 14. (S16.3.2.1.8)

X 18. Attempt to return the seat to the foremost fore-aft position, mid-height, and seat cushion mid-angle. The foot may contact and depress the accelerator and/or change the angle of the foot with respect to the leg. (S16.3.2.1.8)
  __Foremost position achieved. Proceed to step 23.
  __Foremost not achieved because of foot interference. Proceed to step 20.
  __Foremost not achieved because of steering wheel contact.

X 19. If the dummy’s legs contact the steering wheel, move the steering wheel up the minimum amount required to avoid contact. If the steering wheel is not adjustable separate the knees the minimum required to avoid contact. (S16.3.2.1.8)
  __X N/A- there was no leg contact
  __Steering wheel repositioned
  __Knees separated

X 20. If the left foot interferes with the clutch or brake pedals, rotate the left foot about the leg to provide clearance. If this is not sufficient, rotate the thigh outboard at the hip the minimum amount required for clearance. (S16.3.2.1.8)
  __X N/A, No foot interference with pedals.
  __Foot adjusted to provide clearance.
  __Foot and Thigh adjusted to provide clearance.
X 21. Continue to move the seat. Use seat controls to line up the seat markings determined during the completion of Data Sheet 14 to set the foremost fore-aft position, mid-height position and the seat cushion mid-angle. If the dummy contacts the interior move the seat rearward until a maximum clearance of 5 mm (0.2 inches) is achieved or the seat is in the closest detent position that does not cause dummy contact. (S16.3.2.1.8)

Foremost, mid-height position and the seat cushion mid-angle reached

- Dummy contact. Clearance set at maximum of 5mm
  Measured Clearance______________

- Dummy Contact. Seat set at nearest detent position.
  Seat position ___ detent positions rearward of foremost
  (Foremost is position zero)

X 22. If the steering wheel was repositioned in step 19, return the steering wheel to the original position. If the steering wheel contacts the dummy before reaching the original position, position the wheel until a maximum clearance of 5mm (.2 inches) is achieved, or the steering wheel is in the closest detent position that does not cause dummy contact. (S16.3.2.1.8)

N/A Steering wheel was not repositioned.

- Original position achieved.

- Dummy contact. Clearance set at maximum of 5mm
  Measured Clearance______________

- Dummy Contact. Steering wheel set at nearest detent position.
  Steering wheel position ___ detent positions upward of original position.
  (Original position is position zero)

X 23. If the seat back is adjustable, rotate the seat back forward while holding the thighs in place. Continue rotating the seat back forward until the transverse instrument platform of the dummy head is level ± 0.5 degrees. If the head cannot be leveled using the seat back adjustment, or the seat back is not adjustable, use the lower neck bracket adjustment to level the head. If a level position cannot be achieved, minimize the angle. (S16.3.2.1.9)

Head Level Achieved. (Check all that apply)
  - Head leveled using the adjustable seat back
  - Head leveled using the neck bracket.
    Head Angle _______0.3________ degrees

- Head Level NOT Achieved. (Check all that apply)
  - Head adjusted using the adjustable seat back
  - Head adjusted using the neck bracket.
    Head Angle ____________ degrees

X 24. Verify the pelvis is not interfering with the seat bight. (S16.3.2.1.9)

- No interference
  - Pelvis moved forward the minimum amount so that it is not caught in the seat bight.
25. Verify the dummy abdomen is properly installed. (S16.3.2.1.9)
   Abdomen still seated properly into dummy
   Abdomen was adjusted because it was not seated properly into dummy

26. Head Angle
   N/A, neither the pelvis nor the abdomen were adjusted.

26.1 Head still level (Go to 27)

26.2 Head level adjusted
   Head Level Achieved. (Check all that apply)
   Head leveled using the adjustable seat back
   Head leveled using the neck bracket.
   Head Angle ____________ degrees

   Head Level NOT Achieved. (Check all that apply)
   Head level adjusted using the adjustable seat back
   Head level adjusted using the neck bracket.
   Head Angle ____________ degrees

27. If the dummy torso contacts the steering wheel while performing step 23, reposition the steering wheel in the following order to eliminate contact.
   N/A, No dummy torso contact with the steering wheel.

27.1 Adjust telescoping mechanism.
   N/A No telescoping adjustment.
   Adjustment performed (fill in appropriate change)
   Steering wheel moved ____ detent positions in the forward direction.
   Steering wheel moved ____ mm in the forward direction.

27.2 Adjust tilt mechanism.
   N/A No tilt adjustment.
   No adjustment performed.
   Adjustment performed.
   Steering wheel moved ____ detent positions Upward/Downward.
   Steering wheel moved ____ degrees Upward/Downward

27.3 Adjust Seat in the aft direction.
   No Adjustment performed.
   Seat moved aft ____ mm from original position.
   Seat moved aft ____ detent positions from the original position.

28. Measure and set the pelvic angle using the pelvic angle gage TE-2504. The pelvic angle should be 20.0 degrees ± 2.5 degrees. If the pelvic angle cannot be set to the specified range because the head will not be level, adjust the pelvis as closely as possible to the angle range, but keep the head level.
   Pelvic angle set to 20.0 degrees ± 2.5 degrees.
   Pelvic angle of 20.0 degrees not achieved, the angular difference was minimized.
   Record the pelvic angle. 26.5 degrees
X 29. Check the dummy for contact with the interior after completing adjustments.
   X No contact.
   __Dummy in contact with interior.
      __Seat moved aft ___ mm from the previous position.
      __Seat moved aft ___ detent positions from the previous position.

X 30. Check the dummy to see if additional interior clearance is obtained, allowing the seat to be moved forward.
   X N/A, Seat already at foremost position.
   __Clearance unchanged. No adjustments required.
   __Additional clearance available
      __Seat moved Forward ___ mm from the previous position.
      __Seat moved Forward ___ detent positions from the previous position.

X 31. Driver’s foot positioning, right foot. Place the foot perpendicular to the leg and determine if the heel contacts the floor pan at any leg position. If the heel contacts the floor pan proceed to step 32 otherwise, proceed to step 33.

X 32. Perform the following steps until either all steps are completed, or the foot contacts the accelerator pedal. Step 32.6 shall be completed in all cases.

X 32.1 With the rear of the heel contacting the floor pan, move the foot forward until pedal contact occurs or the foot is at the full forward position.

__32.2 If the vehicle has an adjustable accelerator pedal, move the pedals rearward until pedal contact occurs or the pedals reach the full rearward position. Not Applicable

__32.3 Extend the leg, allowing the heel to lose contact with the floor until the foot contacts the pedal. Do not raise the toe of the foot higher than the top of the accelerator pedal. If the foot does not contact the pedal, proceed to the next step. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward.

__32.4 Angle the foot to achieve contact between the foot and the pedal. If the foot does not contact the pedal, return the foot to the perpendicular orientation. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward.

__32.5 Align the centerline of the foot with the vertical-longitudinal plane passing through the center of the accelerator pedal. Place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward.

X 32.6 Record foot position
   X Pedal Contact achieved. Contact occurred at step 32.1.
   X Heel contacts floor pan
      __Heel set _____ mm from floor pan.
   __ Pedal Contact not achieved. Heel set _____ mm from the floor pan.
FIGURE G1

_33.  Perform the following steps until either all steps are completed, or the foot contacts the accelerator pedal. Step 33.5 shall be completed in all cases.

_33.1 Extend the leg until the foot contacts the pedal. Do not raise the toe of the foot higher than the top of the accelerator pedal. If the foot does not contact the pedal, proceed to the next step. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward.

_33.2 If the vehicle has an adjustable accelerator pedal, move the pedals rearward until pedal contact occurs or the pedals reach the full rearward position. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward.

_33.3 Angle the foot to achieve contact between the foot and the pedal. If the foot does not contact the pedal, return the foot to the perpendicular orientation. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward.

_33.4 Align the centerline of the foot in the same horizontal plane as the centerline of the accelerator pedal. Place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward.
33.5 Record foot position
   __Pedal Contact achieved. Contact occurred at step 32.1.
   __ Heel set ______ mm from floor pan.

   __Pedal Contact not achieved. Heel set ______ mm from the floor pan.

X 34. Driver's foot positioning, left foot.

X 34.1 Place the foot perpendicular to the leg and determine if the heel contacts the floor pan at any leg position. If the heel contacts the floor pan proceed to step 34.2, otherwise position the leg as perpendicular to the thigh as possible with the foot parallel to the floor pan.

X 34.2 Place the foot on the toe board with the heel resting on the floor pan as close to the intersection of the floor pan and the toe board as possible. Adjust the angle of the foot if necessary to contact the toe board. If the foot will not contact the toe board, set the foot perpendicular to the leg, and set the heel on the floor pan as far forward as possible. Do not place the foot on the wheel well projection or footrest. If the pedals interfere with the placement of the foot, reposition the foot by rotating the foot about the leg, or rotate the leg outboard about the hip if necessary.
   __ Foot rotated about the leg
   __ Foot rotated about the leg, and the leg rotated about the hip.
   X No pedal interference

X 34.3 Record foot position.
   __ Heel does not contact floor pan.
   __ Foot placed on toe board.
   X Foot placed on floor pan.

X 35. Driver arm/hand positioning.

X 35.1 Place the dummy's upper arms adjacent to the torso with the arm centerlines as close to a vertical longitudinal plane as possible. (S16.3.2.3.1)

X 35.2 Place the palms of the dummy in contact with the outer part of the steering wheel rim at its horizontal centerline with the thumbs over the steering wheel rim. (S16.3.2.3.2)

X 35.3 If it is not possible to position the thumbs inside the steering wheel rim at its horizontal centerline, then position them above and as close to the horizontal centerline of the steering wheel rim as possible. (S16.3.2.3.3)

X 35.4 Lightly tape the hands to the steering wheel rim so that if the hand of the test dummy is pushed upward by a force of not less than 9 N (2 lb) and not more than 22 N (5 lb), the tape releases the hand from the steering wheel rim. S16.3.2.3.4

X 36. Adjustable head restraints
   __ N/A, there is no head restraint adjustment

   __36.1 If the head restraint has an automatic adjustment, leave it where the system positions the restraint after the dummy is placed in the seat. (S16.3.4.1) Go to 37.
36.2 Adjust each head restraint vertically so that the horizontal plane determined in item 3 of Data Sheet 14 is aligned with the center of gravity (CG) of the dummy head. (S16.3.4.3)  

36.3 If the above position is not attainable, move the vertical center of the head restraint to the closest detent below the center of the head CG. (S16.3.4.3)  

   N/A midpoint position attained in previous step  
   Headrest set at nearest detent below the head CG  

36.4 If the head restraint has a fore and aft adjustment, place the restraint in the foremost position or until contact with the head is made, whichever occurs first. (S16.3.4.4)  

37. Driver and passenger manual belt adjustment (for tests conducted with a belted dummy). (S16.3.5)  

   37.1 If an adjustable seat belt D-ring anchorage exists, place it in the manufacturer’s design position for a 5th percentile adult female. This information will be supplied by the COTR.  
       Manufacturer’s specified position ___________________________  
       Actual Position __________________________________________  

   37.2 Place the Type 2 manual belt around the test dummy and fasten the latch. (S16.3.5.2)  

   37.3 Ensure that the dummy’s head remains as level as possible. (S16.3.5.3)  

   37.4 Remove all slack from the lap belt. Pull the upper torso webbing out of the retractor and allow it to retract; repeat this operation four times. Apply a 9 N (2 lbf) to 18 N (4 lbf) tension load to the lap belt. If the belt system is equipped with a tension-relieving device, introduce the maximum amount of slack into the upper torso belt that is recommended by the manufacturer. If the belt system is not equipped with a tension-relieving device, allow the excess webbing in the shoulder belt to be retracted by the retractive force of the retractor. (S16.3.5.4)  

REMARKS:  
I certify that I have read and performed each instruction.  

Signature: ___________________________ Date: 06/03/04
APPENDIX G
DUMMY POSITIONING PROCEDURES
FOR 5th% PASSENGER TEST DUMMY CONFORMING TO SUBPART O OF PART 572

Test Vehicle: 2004 Lexus RX330  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke

<table>
<thead>
<tr>
<th>IMPACT ANGLE:</th>
<th>Zero Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>BELTED DUMMIES (YES/NO):</td>
<td>No – Front Occupants  Yes – Center Rear Passenger</td>
</tr>
<tr>
<td>TEST SPEED:</td>
<td>X 32 to 40 kmph</td>
</tr>
<tr>
<td>DRIVER DUMMY:</td>
<td>X 5th female</td>
</tr>
<tr>
<td>PASSENGER DUMMY:</td>
<td>__ 5th female</td>
</tr>
</tbody>
</table>

(Check this item ONLY if it applies to this vehicle.)

The passenger seat adjustments are controlled by the adjustments made to the driver’s seat. Therefore, positioning of the passenger dummy is made simultaneously with the driver dummy. Adjustments made to the seat to position the driver will over ride any adjustments that would normally be made to position the passenger. (S16.2.10.3)

- **X 1.** Position the seat’s adjustable lumbar supports so that the lumbar supports are in the lowest, retracted or deflated adjustment position. (S16.2.10.1)  
  - X N/A – No lumbar adjustment

- **X 2.** Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2)  
  - X N/A – No additional support adjustment

- **X 3.** If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S16.2.10.3.1)  
  - X N/A – No independent fore-aft seat cushion adjustment

- **X 4.** Use the seat markings determined during the completion of Data Sheet 14 to set the rearmost fore-aft position, mid-height position and the seat cushion mid-angle. (S16.3.3.1.1)

- **X 5.** Fully recline the seat back. (S16.3.3.1.2)  
  - __ N/A seat back not adjustable.

- **X 6.** Place the dummy in the seat with the legs at an angle of 120 degrees to the thighs. The calves should not be touching the seat cushion. (S16.3.3.1.2)

- **X 7.** Position the dummy in the seat such that the midsagittal plane is coincident with the longitudinal seat cushion marking that was determined in item 2.19 of Data Sheet 14 (S16.3.3.1.3 and S16.3.3.1.4)

- **X 8.** Hold down the dummy’s thighs and push rearward on the upper torso to maximize the pelvic angle. (S16.3.3.1.5)

- **X 9.** Set the angle between the legs and the thighs to 120 degrees. (S16.3.3.1.6)

Test Vehicle: 2004 Lexus RX330  
NHTSA No.: C45102  
Test Program: FMVSS 208 Compliance  
Test Date: 6/03/04
10. Set the transverse distance between the centers of the front of the knees at 160 to 170 mm. (6.3 to 6.7 inches) Center the knee separation with respect to the longitudinal seat cushion marking that was determined in item 2.19 of Data Sheet 14. (S16.3.3.1.6) Record Knee Separation 169 mm

11. Push rearward on the dummy’s knees until the pelvis contacts the seat back, or the backs of the calves contact the seat cushion, whichever occurs first. (S16.3.3.1.6)

   _Pelvis contacted seat back._

   _X_Calves contacted seat cushion._

12. Gently rock the upper torso ± 5 degrees (approximately 51 mm (2 inches)) side-to-side three times. (S16.3.3.1.7)

13. If needed, extend the legs until the feet do not contact the floor pan. The thighs should be resting on the seat cushion. (S16.3.3.1.8)

14. Use seat controls to line up the seat markings determined during the completion of Data Sheet 14 to set the foremost fore-aft position, mid-height position and the seat cushion mid-angle. If the dummy contacts the interior move the seat rearward until a maximum clearance of 5 mm (0.2 inches) is achieved or the seat is in the closest detent position that does not cause dummy contact. (S16.3.3.1.8)

   _Foremost, mid-height position and the seat cushion mid-angle reached_

   __Dummy contact. Clearance set at maximum of 5mm__

   Measured Clearance_________

   __Dummy Contact. Seat set at nearest detent position._

   Seat position ___ detent positions rearward of foremost

   (Foremost is position zero)

15. If the seat back is adjustable, rotate the seat back forward while holding the thighs in place. Continue rotating the seat back forward until the transverse instrument platform of the dummy head is level ± 0.5 degrees. If head cannot be leveled using the seat back adjustment, or the seat back is not adjustable, use the lower neck bracket adjustment to level the head. If a level position cannot be achieved, adjust the head as closely as possible to the ± 0.5 degree range. (S16.3.3.1.9 and S16.3.3.1.10)

   (Check All That Apply)

   __Seat back not adjustable__

   __Seat back not independent of driver side seat back__

   _X_Head Level Achieved. (Check all that apply)

   _X_Head leveled using the adjustable seat back

   __Head leveled using the neck bracket.

   Head Angle _______0.1______degrees

   __Head Level NOT Achieved. (Check all that apply)

   __Head adjusted using the adjustable seat back

   __Head adjusted using the neck bracket.

   Head Angle _____________ degrees
X 16. Verify the pelvis is not interfering with the seat bight. (S16.3.3.1.9)
   X No interference
   ___Pelvis moved forward the minimum amount so that it is not caught in the seat bight.

X 17. Verify the dummy abdomen is properly installed. (S16.3.3.1.9)
   X Abdomen still seated properly into dummy
   ___Abdomen was adjusted because it was not seated properly into dummy

X 18. Head Angle
   ___N/A, neither the pelvis nor the abdomen were adjusted.

X 18.1 Head still level (Go to 19)

   ___18.2 Head level adjusted

      ___Head Level Achieved. (Check all that apply)
      ___Head leveled using the adjustable seat back
      ___Head leveled using the neck bracket.
          Head Angle ____________ degrees

      ___Head Level NOT Achieved. (Check all that apply)
      ___Head adjusted using the adjustable seat back
      ___Head adjusted using the neck bracket.
          Head Angle ____________ degrees

X 19. Measure and set the pelvic angle using the pelvic angle gage TE-2504. The pelvic angle should be 20.0 degrees ± 2.5 degrees. If the pelvic angle cannot be set to the specified range because the head will not be level, adjust the pelvis as closely as possible to the angle range, but keep the head level.

   ___Pelvic angle set to 20.0 degrees ± 2.5 degrees.
   X Pelvic angle of 20.0 degrees not achieved, the angular difference was minimized.
   X Record the pelvic angle. ___25.4____ degrees

X 20. Check the dummy for contact with the interior after completing adjustments.
   X No contact.
   ___Dummy in contact with interior.
       ___Seat moved aft ___ mm from the previous position.
       ___Seat moved aft ___ detent positions from the previous position.

X 21. Verify the transverse instrument platform of the dummy head is level +/- 0.5 degrees. Use the lower neck bracket adjustment to level the head. If a level position cannot be achieved, minimize the angle. (S16.3.3.1.9, S16.3.3.1.10, and S16.3.3.1.11)

   X Head Level Achieved

       ___Head Angle ___0.1____ degrees

   ___Head Level NOT Achieved.

       ___Head Angle _____________ degrees
22. Check the dummy to see if additional interior clearance is obtained, allowing the seat to be moved forward. (S16.3.3.1.12)
   - N/A Bench Seat
   - X N/A Seat already at full forward position.
   - Clearance unchanged. No adjustments required.
   - Additional clearance available
     - Seat moved Forward ___ mm from the previous position.
     - Seat moved Forward ___ detent positions from the previous position.
   - Seat moved Forward, Full Forward position reached.

23. Passenger foot positioning. (Indicate final position achieved) (S16.3.3.2)
   - 23.1 Place feet flat on the toe board; OR
   - 23.2 If the feet cannot be placed flat on the toe board, set the feet perpendicular to the lower leg, and rest the heel as far forward on the floor pan as possible; OR
   - 23.3 If the heels do not touch the floor pan, set the legs to vertical and set the feet parallel to the floor pan.

24. Passenger arm/hand positioning. (S16.3.3.3)
   - 24.1 Place the dummy's upper arms adjacent to the torso with the arm centerlines as close to a vertical longitudinal plane as possible. (S16.3.2.3.1)
   - 24.2 Place the palms of the dummy in contact with the outer part of the thighs (S16.3.3.3.2)
   - 24.3 Place the little fingers in contact with the seat cushion. (S16.3.3.3.3)

25. Adjustable head restraints
   - N/A, there is no head restraint adjustment
   - 25.1 If the head restraint has an automatic adjustment, leave it where the system positions the restraint after the dummy is placed in the seat. (S16.3.4.1) Go to 26.
   - 25.2 Adjust each head restraint vertically so that the horizontal plane determined in item 3 of Data Sheet 14 is aligned with the center of gravity (CG) of the dummy head. (S16.3.4.3)
   - 25.3 If the above position is not attainable, move the vertical center of the head restraint to the closest detent below the center of the head CG. (S16.3.4.3)
     - N/A midpoint position attained in previous step
     - X Headrest set at nearest detent below the head CG
   - 25.4 If the head restraint has a fore and aft adjustment, place the restraint in the foremost position or until contact with the head is made, whichever occurs first. (S16.3.4.4)

26. Manual belt adjustment (for tests conducted with a belted dummy) S16.3.5
   - X N/A, Unbelted test
26.1 If an adjustable seat belt D-ring anchorage exists, place it in the manufacturer’s design position for a 5th percentile adult female. This information will be supplied by the COTR.

Manufacturer’s specified position ________________________________
Actual Position ________________________________

26.2 Place the Type 2 manual belt around the test dummy and fasten the latch. (S16.3.5.2)

26.3 Ensure that the dummy’s head remains as level as possible. (S16.3.5.3)

26.4 Remove all slack from the lap belt. Pull the upper torso webbing out of the retractor and allow it to retract; repeat this operation four times. Apply a 9 N (2 lbf) to 18 N (4 lbf) tension load to the lap belt. If the belt system is equipped with a tension-relieving device, introduce the maximum amount of slack into the upper torso belt that is recommended by the manufacturer. If the belt system is not equipped with a tension-relieving device, allow the excess webbing in the shoulder belt to be retracted by the retractive force of the retractor. (S16.3.5.4)

REMARKS:

I certify that I have read and performed each instruction.

Signature: ____________________  Date: 06/03/04
DUMMY POSITIONING PROCEDURES
FOR REAR PASSENGER TEST DUMMY CONFORMING TO SUBPART E OF PART 572

Test Vehicle: 2004 Lexus RX330
Test Program: FMVSS 208 Compliance
Test Technician: Eric Peschman
NHTSA No.: C45102
Test Date: 6/03/04

IMPACT ANGLE: Zero Degrees
BELTED DUMMIES (YES/NO): No – Front Occupants Yes – Center Rear Passenger
TEST SPEED: 32 to 40 kmph 0 to 48 kmph 0 to 56 kmph
DRIVER DUMMY: 50th Male
PASSENGER DUMMY: 50th Male Ctr Rear

1. If the seat is a bench seat for which there are no independent adjustments that can be made, Go to step 7.

2. Position the seat’s adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3) N/A – No lumbar adjustment

3. Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S20.1.8.2) N/A – No additional support adjustment

4. If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S20.1.9.3) N/A – No independent fore-aft seat cushion adjustment

5. If the seat and/or seat cushion height is adjustable, put the seat in the full down height position. (S8.1.2) N/A – No seat height adjustment

6. Using only the controls that move the seat in the fore-aft direction, place the seat in the rearmost position. (S8.1.2)

7. The seat back angle, if adjustable, is set at the manufacturer’s nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S4.5.4.1 (b) and S8.1.3)

8. If adjustable, set the head restraint at the full up and full forward position. Any adjustment of the head restraint shall be used to position it full forward. For example, if it rotates, rotate it such that the head restraint extends as far forward as possible. (S8.1.3) N/A – No head restraint adjustment

9. Place any adjustable seat belt anchorages at the vehicle manufacturer’s nominal design position for a 50th percentile adult male occupant (S8.1.3) N/A – No adjustable upper seat belt anchorage

Manufacturer’s specified anchorage position. Tested anchorage position

Test Vehicle: 2004 Lexus RX330
Test Program: FMVSS 208 Compliance
Test Technician: Eric Peschman
NHTSA No.: C45102
Test Date: 6/03/04

X 1.  If the seat is a bench seat for which there are no independent adjustments that can be made, Go to step 7.

X 2.  Position the seat’s adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3) N/A – No lumbar adjustment

X 3.  Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S20.1.8.2) N/A – No additional support adjustment

X 4.  If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S20.1.9.3) N/A – No independent fore-aft seat cushion adjustment

X 5.  If the seat and/or seat cushion height is adjustable, put the seat in the full down height position. (S8.1.2) N/A – No seat height adjustment

X 6.  Using only the controls that move the seat in the fore-aft direction, place the seat in the rearmost position. (S8.1.2)

X 7.  The seat back angle, if adjustable, is set at the manufacturer’s nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S4.5.4.1 (b) and S8.1.3)

X N/A – No seat back angle adjustment

Manufacturer’s design seat back angle

Tested seat back angle

X 8.  If adjustable, set the head restraint at the full up and full forward position. Any adjustment of the head restraint shall be used to position it full forward. For example, if it rotates, rotate it such that the head restraint extends as far forward as possible. (S8.1.3) N/A – No head restraint adjustment

X 9.  Place any adjustable seat belt anchorages at the vehicle manufacturer’s nominal design position for a 50th percentile adult male occupant (S8.1.3) N/A – No adjustable upper seat belt anchorage

Manufacturer’s specified anchorage position.

Tested anchorage position
10. Place the dummy in the seat such that the midsagittal plane is vertical and coincides with the vertical longitudinal plane that passes through the SgRP and is parallel to the longitudinal centerline of the vehicle and the upper torso rests against the seat back.

11. Rest the thighs on the seat cushion. (S10.5)

12. Position the H-point of the dummy within 0.5 inch of the vertical dimension and 0.5 inch of the horizontal dimension of a point 0.25 inch below the H-point determined by using the equipment and procedures specified in SAE J826 (APR 1980). (S10.4.2.1) Then measure the pelvic angle with respect to the horizontal using the pelvic angle gage. Adjust the dummy position until these three measurements are within the specifications. (S10.4.2.1 and S10.4.2.2)

.08 horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
.39 vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
25.0° pelvic angle (20° to 25°)

13. Is the head level within ±0.5°? (S10.1)
   Yes, go to 14
   No, go to 13.1
   13.1 Adjust the position of the H-point. (S10.1 and S10.4.2.1)

   13.2 Is the head level within ±0.5°? (S10.1)
      Yes, record the following, then go to 13. No, go to 12.3
      horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
      vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
      pelvic angle (20° to 25°) (S10.4.2.2)

   13.3 Adjust the pelvic angle. (S10.1)

   13.4 Is the head level within ±0.5°? (S10.1)
      Yes, record the following, then go to 13. No, go to 12.5
      horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
      vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
      pelvic angle (20° to 25°) (S10.4.2.2)

   13.5 Adjust the neck bracket of the dummy the minimum amount necessary from the non-adjusted “0” setting until the head is level within ±0.5°. (S10.1)
   Record the following, then go to 13
   horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
   vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
   pelvic angle (20° to 25°) (S10.4.2.2)
14. Set the distance between the outboard knee clevis flange surfaces at 10.6 inches.  
10.6“ measured distance (10.6 inches) (S10.5)

15. Check only one of the following that applies:  
   _____ Outboard seating position  
   Keeping the right thigh and leg in a vertical plane and the left thigh and leg in a vertical plane, place the feet flat on the floorpan and beneath the front seat as far as possible without front seat interference. If necessary, the distance between the knees can be changed in order to place the feet beneath the seat. Record new distance between the outboard knee clevis flange surfaces if knees have been repositioned. ______ measured distance (inches)  
   X Center seating position  
   Keeping the left thigh and leg in a vertical plane, place the left foot flat on the floorpan on the left side of the transmission tunnel (if present). Keeping the right thigh and leg in a vertical plane, place the right foot flat on the floorpan on the right side of the transmission tunnel. If necessary, the distance between the knees can be changed in order to place the feet flat on the floor. If possible, the knees should remain as close to the distance as measured in #13 above. Record new distance between the outboard knee clevis flange surfaces if knees have been repositioned. ______ measured distance (inches)

16. Place the left upper arm in contact with the seat back and side of the torso. (S10.2.2)

17. Is the passenger seat belt used for this test?  
   X Yes, continue  
   __No, go to 18

17.1 Fasten the seat belt around the dummy.

17.2 Remove all slack from the lap belt portion. (S10.9)

17.3 Pull the upper torso webbing out of the retractor and allow it to retract; repeat this four times. (S10.9)

17.4 Apply a 2 to 4 pound tension load to the lap belt. (S10.9)  
   __ pound load applied

17.5 Is the belt system equipped with a tension relieving device?  
   __Yes, continue  
   X No, go to 18

17.6 Introduce the maximum amount of slack into the upper torso belt that is recommended by the vehicle manufacturer in the vehicle owner’s manual. (S10.9). Go to 17.

18. Place the right upper arm in contact with the seat back and side of the torso. (S10.2.2)

19. Place the left hand palm in contact with the outside of the left thigh and the little finger in contact with the seat cushion. (S10.3.2)

20. Place the right hand palm in contact with the outside of the right thigh and the little finger in contact with the seat cushion. (S10.3.2)
I certify that I have read and performed each instruction.

Signature: [Signature] Date: 06/03/04
DATA SHEET 35

DUMMY MEASUREMENTS

Test Vehicle: 2004 Lexus RX330  
Test Program: FMVSS 208 Compliance  
Test Technician: Eric Peschman

NHTSA No.: C45102  
Test Date: 6/03/04

DUMMY MEASUREMENTS FOR FRONT SEAT OCCUPANTS

<table>
<thead>
<tr>
<th>Measure</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD</td>
<td>Chest to Dash</td>
</tr>
<tr>
<td>CS</td>
<td>Chest to Steering Wheel Hub</td>
</tr>
<tr>
<td>HH</td>
<td>Head to Header</td>
</tr>
<tr>
<td>HW</td>
<td>Head to Windshield</td>
</tr>
<tr>
<td>HZ</td>
<td>Head to Roof</td>
</tr>
<tr>
<td>KDA</td>
<td>Knee to Dash Angle</td>
</tr>
<tr>
<td>KDL</td>
<td>Left Knee to Dash</td>
</tr>
<tr>
<td>KDR</td>
<td>Right Knee to Dash</td>
</tr>
<tr>
<td>NA</td>
<td>Nose to Rim Angle</td>
</tr>
<tr>
<td>NR</td>
<td>Nose to Rim</td>
</tr>
<tr>
<td>PA</td>
<td>Pelvic Angle</td>
</tr>
<tr>
<td>RA</td>
<td>Rim to Abdomen</td>
</tr>
<tr>
<td>SA</td>
<td>Seat Back Angle</td>
</tr>
<tr>
<td>SCA</td>
<td>Steering Column Angle</td>
</tr>
<tr>
<td>SH</td>
<td>Striker to H-Point</td>
</tr>
<tr>
<td>SK</td>
<td>Striker to Knee</td>
</tr>
<tr>
<td>ST</td>
<td>Striker to Head</td>
</tr>
<tr>
<td>SWA</td>
<td>Steering Wheel Angle</td>
</tr>
<tr>
<td>TA</td>
<td>Tibial Angle</td>
</tr>
<tr>
<td>WA</td>
<td>Windshield Angle</td>
</tr>
</tbody>
</table>

Test Vehicle: 2004 Lexus RX330  
Test Program: FMVSS 208 Compliance  
Test Technician: Eric Peschman

NHTSA No.: C45102  
Test Date: 6/03/04
## DATA SHEET 35
### DUMMY MEASUREMENTS

**Test Vehicle:** 2004 Lexus RX330  
**Test Program:** FMVSS 208 Compliance  
**Test Technician:** Eric Peschman  
**NHTSA No.:** C45102  
**Test Date:** 6/03/04

### TEST DUMMY POSITION MEASUREMENTS

<table>
<thead>
<tr>
<th>Code</th>
<th>Measurement Description</th>
<th>Driver SN 506</th>
<th>Passenger SN 517</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Length (mm)</td>
<td>Angle (°)</td>
</tr>
<tr>
<td>WA</td>
<td>Windshield Angle</td>
<td>27.0</td>
<td></td>
</tr>
<tr>
<td>SWA</td>
<td>Steering Wheel Angle</td>
<td>60.1</td>
<td></td>
</tr>
<tr>
<td>SCA</td>
<td>Steering Column Angle</td>
<td>38.5</td>
<td></td>
</tr>
<tr>
<td>SA</td>
<td>Seat Back Angle (On Headrest)</td>
<td>9.0</td>
<td>9.2</td>
</tr>
<tr>
<td>HZ</td>
<td>Head to Roof (Z)</td>
<td>221</td>
<td>0.0</td>
</tr>
<tr>
<td>HH</td>
<td>Head to Header</td>
<td>341</td>
<td>35.1</td>
</tr>
<tr>
<td>HW</td>
<td>Head to Windshield</td>
<td>739</td>
<td>0.0</td>
</tr>
<tr>
<td>HR</td>
<td>Head to Side Header (Y)</td>
<td>252</td>
<td></td>
</tr>
<tr>
<td>NR</td>
<td>Nose to Rim</td>
<td>336</td>
<td>2.7</td>
</tr>
<tr>
<td>CD</td>
<td>Chest to Dash</td>
<td>454</td>
<td></td>
</tr>
<tr>
<td>CS</td>
<td>Chest to Steering Hub</td>
<td>229</td>
<td>4.8</td>
</tr>
<tr>
<td>RA</td>
<td>Rim to Abdomen</td>
<td>91</td>
<td>0.0</td>
</tr>
<tr>
<td>KDL</td>
<td>Left Knee to Dash</td>
<td>86</td>
<td>33.8</td>
</tr>
<tr>
<td>KDR</td>
<td>Right Knee to Dash</td>
<td>58</td>
<td></td>
</tr>
<tr>
<td>PA</td>
<td>Pelvic Angle</td>
<td>91</td>
<td>0.0</td>
</tr>
<tr>
<td>TA</td>
<td>Tibia Angle</td>
<td>51.9</td>
<td></td>
</tr>
<tr>
<td>KK</td>
<td>Knee to Knee (Y)</td>
<td>204</td>
<td></td>
</tr>
<tr>
<td>SK</td>
<td>Striker to Knee</td>
<td>708</td>
<td>102.6</td>
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<tr>
<td>ST</td>
<td>Striker to Head</td>
<td>410</td>
<td>27.9</td>
</tr>
<tr>
<td>SH</td>
<td>Striker to H-Point</td>
<td>422</td>
<td>117.5</td>
</tr>
<tr>
<td>SHY</td>
<td>Striker to H-Point (Y)</td>
<td>297</td>
<td></td>
</tr>
<tr>
<td>HS</td>
<td>Head to Side Window</td>
<td>351</td>
<td></td>
</tr>
<tr>
<td>HD</td>
<td>H-Point to Door (Y)</td>
<td>236</td>
<td></td>
</tr>
<tr>
<td>AD</td>
<td>Arm to Door (Y)</td>
<td>156</td>
<td></td>
</tr>
<tr>
<td>AA</td>
<td>Ankle to Ankle</td>
<td>258</td>
<td></td>
</tr>
</tbody>
</table>
DATA SHEET 35 SUPPLIMENTAL
CENTER REAR PASSENGER DUMMY MEASUREMENTS

Test Vehicle: 2004 Lexus RX330  
NHTSA No.: C45102  
Test Program: FMVSS 208 Compliance  
Test Date: 6/03/04  
Test Technician: Eric Peschman

<table>
<thead>
<tr>
<th>Code</th>
<th>Measurement Description</th>
<th>Measurement Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SA</td>
<td>Seat Back Angle</td>
<td>3.5 degrees on headrest post</td>
</tr>
<tr>
<td>HR</td>
<td>Head to Side Header (Y)</td>
<td>569 mm</td>
</tr>
<tr>
<td>HS</td>
<td>Head to Side Window (Y)</td>
<td>696 mm</td>
</tr>
<tr>
<td>AD</td>
<td>Arm to Door (Y)</td>
<td>493 mm</td>
</tr>
<tr>
<td>HD</td>
<td>H-Point to Door (Y)</td>
<td>539 mm</td>
</tr>
<tr>
<td>HB</td>
<td>Head to Seatback</td>
<td>728 mm</td>
</tr>
<tr>
<td>NB</td>
<td>Neck to Seatback</td>
<td>748 mm</td>
</tr>
<tr>
<td>CB</td>
<td>Chest to Seatback</td>
<td>663 mm</td>
</tr>
<tr>
<td>KB</td>
<td>Knee to Seatback</td>
<td>322 mm</td>
</tr>
<tr>
<td>PA</td>
<td>Pelvic Angle</td>
<td>25.0 degrees</td>
</tr>
<tr>
<td>TA</td>
<td>Tibia Angle</td>
<td>77.3 degrees</td>
</tr>
<tr>
<td>KK</td>
<td>Knee to Knee (Y)</td>
<td>347 mm</td>
</tr>
<tr>
<td>AA</td>
<td>Ankle to Ankle</td>
<td>349 mm</td>
</tr>
</tbody>
</table>
### SEAT BELT POSITIONING DATA

#### FRONT VIEW OF DUMMY

<table>
<thead>
<tr>
<th>SEAT BELT POSITIONING MEASUREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Measurement Description</strong></td>
</tr>
<tr>
<td>-------------------------------------</td>
</tr>
<tr>
<td>PBU - Top surface of reference to</td>
</tr>
<tr>
<td>belt upper edge</td>
</tr>
<tr>
<td>PBL - To surface of reference to</td>
</tr>
<tr>
<td>belt lower edge</td>
</tr>
</tbody>
</table>

**Diagram Notes:**
- DUMMY'S CENTERLINE
- SHOULDER BELT PORTION
- TBI
- 'D' RING
- LAP BELT PORTION
- OUTBOARD ANCHORAGE
- INBOARD ANCHORAGE
- FLOORPAN
- BUCKLE ASSEMBLY
- 1/8" THICK ALUMINUM PLATE
- EMERGENCY LOCKING RETRACTOR
- MALE BLADE
- PBU
- PBL

---

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DATA SHEET 36
CRASH TEST

Test Vehicle: Lexus RX330
Test Program: FMVSS 208 Compliance
Test Technician: Eric Peschman
NHTSA No.: C45102
Test Date: 6/03/04

IMPACT ANGLE: Zero Degrees
BELTED DUMMIES (YES/NO): No – Front Occupants Yes – Center Rear Passenger
TEST SPEED: X 32 to 40 kmph ___ 0 to 48 kmph ___ 0 to 56 kmph
DRIVER DUMMY: X 5th female ___ 50th Male
PASSENGER DUMMY: X 5th female X 50th Male Ctr Rear

1. Vehicle underbody painted
2. The speed measuring devices are in place and functioning.
3. The speed measuring devices are ___ m from the barrier (spec. 1.5m) and ___ cm from the barrier (spec. is 30 cm)
4. Convertible top is in the closed position.
5. Instrumentation and wires are placed so the motion of the dummies during impact is not affected.
6. Tires inflated to pressure on tire placard or if it does not have a tire placard because it is not a passenger car, then inflated to the tire pressure specified in the owner information.
   210 kpa front left tire  210 kpa specified on tire placard or in owner information
   210 kpa front right tire  210 kpa specified on tire placard or in owner information
   210 kpa rear left tire  210 kpa specified on tire placard or in owner information
   210 kpa rear right tire  210 kpa specified on tire placard or in owner information

7. Time zero contacts on barrier in place.
8. Pre test zero and shunt calibration adjustments performed and recorded
9. Dummy temperature meets requirements of section 12.2 of the test procedure.
10. Vehicle hood closed and latched
11. Transmission placed in neutral
12. Parking brake off
13. Ignition in the ON position
14. Doors closed and latched but not locked
15. Posttest zero and shunt calibration checks performed and recorded
16. Actual test speed 39.6 kmph
17. Vehicle rebound from the barrier 251 cm
18. Describe whether the doors open after the test and what method is used to open the doors.
   X Left Front Door: Door remained closed and latched; Door opened without tools
   X Right Front Door: Door remained closed and latched; Door opened without tools
   X Left Rear Door: Door remained closed and latched; Door opened without tools
X Right Rear Door: Door remained closed and latched; Door opened without tools

X 19. Describe the contact points of the dummy with the interior of the vehicle.
X Driver Dummy: Head to Air Bag and Sunvisor; Chest and Abdomen to Air Bag; Knees to Knee Bolster
X Passenger Dummy: Head to Air Bag and Headrest; Chest and Abdomen to Air Bag; Knees to Knee Bolster

REMARKS:

I certify that I have read and performed each instruction.

Signature: ___________________________ Date: 06/03/04
## DATA SHEET NO. 38
### ACCIDENT INVESTIGATION DIVISION DATA

<table>
<thead>
<tr>
<th>Test Vehicle</th>
<th>2004 Lexus RX330</th>
<th>NHTSA No.</th>
<th>C45102</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Program</td>
<td>FMVSS 208 Compliance</td>
<td>Test Date</td>
<td>6/03/04</td>
</tr>
<tr>
<td>Test Technician</td>
<td>Eric Peschman</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### IMPACT ANGLE:
- Zero Degrees

### BELTED DUMMIES (YES/NO):
- No – Front Occupants
- Yes – Center Rear Passenger

### TEST SPEED:
- X 32 to 40 kmph
- __ 0 to 48 kmph
- __ 0 to 56 kmph

### DRIVER DUMMY:
- X 50th Male
- __ 50th Female

### PASSENGER DUMMY:
- X 50th Male Ctr Rear
- __ 50th Female

### Vehicle Year/Make/Model/Body Style:
- 2004 Lexus RX330 MPV

### VIN:
- JTJHA31U940045394

### Wheelbase:
- 2720 mm

### Build Date:
- 10/03

### Vehicle Size Category:
- 3

### Test Weight:
- 2060.7 kg

### Front Overhang:
- 970 mm

### Overall Width:
- 1845 mm

### Overall Length Center:
- 4709 mm

### Accelerometer Data

<table>
<thead>
<tr>
<th>Location</th>
<th>As per measurements on Data Sheet 31</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linearity</td>
<td>&gt;99.9%</td>
</tr>
</tbody>
</table>

### Integration Algorithm:
- Trapezoidal

### Vehicle Impact Speed:
- 39.6 kmph

### Time of Separation:
- 96 ms

### Velocity Change:
- 45.1 kmph
CRUSH PROFILE

Collision Deformation Classification: 12FDEW6  
Midpoint of Damage: Vehicle Longitudinal Centerline  
Damage Region Length (mm): 1524  
Impact Mode: Frontal Barrier

<table>
<thead>
<tr>
<th>No.</th>
<th>Measurement Description</th>
<th>Units</th>
<th>Pre-Test</th>
<th>Post-Test</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>Crush zone 1 at left side</td>
<td>mm</td>
<td>4510</td>
<td>4333</td>
<td>177</td>
</tr>
<tr>
<td>C2</td>
<td>Crush zone 2 at left side</td>
<td>mm</td>
<td>4622</td>
<td>4294</td>
<td>328</td>
</tr>
<tr>
<td>C3</td>
<td>Crush zone 3 at left side</td>
<td>mm</td>
<td>4691</td>
<td>4334</td>
<td>357</td>
</tr>
<tr>
<td>C4</td>
<td>Crush zone 4 at right side</td>
<td>mm</td>
<td>4692</td>
<td>4347</td>
<td>345</td>
</tr>
<tr>
<td>C5</td>
<td>Crush zone 5 at right side</td>
<td>mm</td>
<td>4623</td>
<td>4326</td>
<td>297</td>
</tr>
<tr>
<td>C6</td>
<td>Crush zone 6 at right side</td>
<td>mm</td>
<td>4512</td>
<td>4342</td>
<td>170</td>
</tr>
</tbody>
</table>

REMARKS:

I certify that I have read and performed each instruction.

Signature:  

Date: 06/03/04
**DATA SHEET 39**  
**WINDSHIELD MOUNTING (FMVSS 212)**

<table>
<thead>
<tr>
<th>IMPACT ANGLE:</th>
<th>Zero Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>BELTED DUMMIES (YES/NO):</td>
<td>No – Front Occupants  Yes – Center Rear Passenger</td>
</tr>
<tr>
<td>TEST SPEED:</td>
<td>X 32 to 40 kmph  0 to 48 kmph  0 to 56 kmph</td>
</tr>
<tr>
<td>DRIVER DUMMY:</td>
<td>X 5'Th female  __ 50'Th Male</td>
</tr>
<tr>
<td>PASSENGER DUMMY:</td>
<td>X 5'Th female  X 50'Th Male Ctr Rear</td>
</tr>
</tbody>
</table>

1. **Pre-Crash**  
   1.1 Describe from visual inspection how the windshield is mounted and describe any trim material.

   Retained with glue  
   Rubber and plastic trim

2. **Post Crash**  
   2.1 Can a single thickness of copier type paper (as small a piece as necessary) slide between the windshield and the vehicle body?

   X No – Pass. Skip to the table of measurements, complete it by repeating the pre-crash measurements in the post crash column, and calculate the retention percentage, which will be 100%.

   X Yes, go to 2.2

   2.2 Visibly mark the beginning and end of the portions of the periphery where the paper slides between the windshield and the vehicle body.

   2.3 Measure and record post-crash A, B, C, D, E, and F such that the measurements do not include any of the parts of the windshield where the paper slides between the windshield and the vehicle body.

   2.4 Calculate and record the percent retention for the right and left side of the windshield.

   2.5 Is total right side percent retention less than 75%?

      X Yes, Fail  
      X No, Pass

   2.6 Is total left side percent retention less than 75%?

      X Yes, Fail  
      X No, Pass

Test Vehicle: 2004 Lexus RX330  
Test Program: FMVSS 208 Compliance  
Test Technician: Clark Subrt  
NHTSA No.: C45102  
Test Date: 6/03/04
**WINDSHIELD RETENTION MEASUREMENTS**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Pre-Crash (mm)</th>
<th>Post-Crash (mm)</th>
<th>Percent Retention (Post-Test ÷ Pre-Crash)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>592</td>
<td>592</td>
<td>100%</td>
</tr>
<tr>
<td>B</td>
<td>895</td>
<td>895</td>
<td>100%</td>
</tr>
<tr>
<td>C</td>
<td>750</td>
<td>750</td>
<td>100%</td>
</tr>
<tr>
<td>Total</td>
<td>2237</td>
<td>2237</td>
<td>100%</td>
</tr>
<tr>
<td>D</td>
<td>592</td>
<td>592</td>
<td>100%</td>
</tr>
<tr>
<td>E</td>
<td>865</td>
<td>865</td>
<td>100%</td>
</tr>
<tr>
<td>F</td>
<td>750</td>
<td>750</td>
<td>100%</td>
</tr>
<tr>
<td>Total</td>
<td>2207</td>
<td>2207</td>
<td>100%</td>
</tr>
</tbody>
</table>

Indicate area of mounting failure. NONE

**FRONT VIEW OF WINDSHIELD**

INDICATE WIDTH OF MOLDING

```
A       D

B       E

Y       G

X       C

C       F

ZERO POINT (0,0)
```

**REMARKS:**

I certify that I have read and performed each instruction.

Signature:  

Date:  06/03/04
1. Place a 165 mm diameter rigid sphere, with a mass of 6.8 kg on the instrument panel so that it is simultaneously touching the instrument panel and the windshield. (571.219 S6.1(a))

2. Roll the sphere from one side of the windshield to the other while marking on the windshield where the sphere contacts the windshield. (571.219 S6.1(b))

3. From the outermost contactable points on the windshield draw a horizontal line to the edges of the windshield. (571.219 S6.1(b))

4. Draw a line on the inner surface of the windshield that is 13 mm below the line determined in items 2 and 3

5. After the crash test, record any points where a part of the exterior of the vehicle has marked, penetrated, or broken the windshield.

Provide all dimensions necessary to reproduce the protected area.
WINDSHIELD DIMENSIONS

<table>
<thead>
<tr>
<th>Item</th>
<th>Units</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>mm</td>
<td>1184</td>
</tr>
<tr>
<td>B</td>
<td>mm</td>
<td>540</td>
</tr>
<tr>
<td>C</td>
<td>mm</td>
<td>1500</td>
</tr>
<tr>
<td>D</td>
<td>mm</td>
<td>875</td>
</tr>
<tr>
<td>E</td>
<td>mm</td>
<td>577</td>
</tr>
<tr>
<td>F</td>
<td>mm</td>
<td>444</td>
</tr>
</tbody>
</table>

AREA OF PROTECTED ZONE FAILURES:

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

<table>
<thead>
<tr>
<th>X</th>
<th>Y</th>
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<tbody>
<tr>
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<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>X</th>
<th>Y</th>
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</thead>
<tbody>
<tr>
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</table>

REMARKS:

I certify that I have read and performed each instruction.

Signature: _____________________  Date: 06/03/04
DATA SHEET 41
FUEL SYSTEM INTEGRITY (FMVSS 301)

Test Vehicle: 2004 Lexus RX330  
Test Program: FMVSS 208 Compliance  
Test Technician: Eric Peschman

NHTSA No.: C45102  
Test Date: 6/03/04

TYPE OF IMPACT: 25 mph Unbelted Flat Frontal

Stoddard Solvent Spillage Measurements

A. From impact until vehicle motion ceases: 0.0 grams  
(Maximum Allowable = 28 grams)
B. For the 5 minute period after motion ceases: 0.0 grams  
(Maximum Allowable = 142 grams)
C. For the following 25 minutes: 0.0 grams  
(Maximum Allowable = 28 grams/minute)
D. Spillage: NONE

REMARKS: NO SPILLAGE
1. The specified fixture rollover rate for each 90° of rotation is 60 to 180 seconds.
2. The position hold time at each position is 300 seconds (minimum).
3. Details of Stoddard Solvent spillage locations: None

<table>
<thead>
<tr>
<th>Test Phase</th>
<th>Rotation Time (sec.)</th>
<th>Hold Time (sec.)</th>
<th>Spillage (grams)</th>
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<tbody>
<tr>
<td>0° to 90°</td>
<td>171</td>
<td>300</td>
<td>0.0</td>
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<tr>
<td>90° to 180°</td>
<td>151</td>
<td>300</td>
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<tr>
<td>180° to 270°</td>
<td>136</td>
<td>300</td>
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<tr>
<td>270° to 360°</td>
<td>160</td>
<td>300</td>
<td>0.0</td>
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</table>
APPENDIX A

CRASH TEST DATA
**TABLE OF DATA PLOTS**

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<tr>
<td>2</td>
<td>Driver Head Y Acceleration vs. Time</td>
<td>A-1</td>
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<tr>
<td>3</td>
<td>Driver Head Z Acceleration vs. Time</td>
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<td>4</td>
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<td>A-1</td>
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<td>5</td>
<td>Driver Head X Velocity vs. Time</td>
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<td>Driver Head Y Velocity vs. Time</td>
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<td>7</td>
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<td>Driver Neck Force X vs. Time</td>
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<td>A-3</td>
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<tr>
<td>10</td>
<td>Driver Neck Force Z vs. Time</td>
<td>A-3</td>
</tr>
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<td>11</td>
<td>Driver Neck Force Resultant vs. Time</td>
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<td>12</td>
<td>Driver Neck Moment X vs. Time</td>
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<tr>
<td>13</td>
<td>Driver Neck Moment Y vs. Time</td>
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<td>15</td>
<td>Driver Neck Moment Resultant vs. Time</td>
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<td>Driver Chest X Acceleration vs. Time</td>
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<td>Driver Chest Z Acceleration vs. Time</td>
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</tr>
<tr>
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<td>Driver Chest Resultant Acceleration vs. Time</td>
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<td>Driver Chest Y Velocity vs. Time</td>
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<td>22</td>
<td>Driver Chest Z Velocity vs. Time</td>
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<td>CRP Neck Moment X vs. Time</td>
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<td>CRP Chest Y Velocity vs. Time</td>
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<td>CRP Chest Displacement vs. Time</td>
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<td>CRP Right Femur Force vs. Time</td>
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<td>CRP Shoulder Belt Force vs. Time</td>
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<td>CRP Lap Belt Force vs. Time</td>
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<td>Driver Nij (N_{TE}) vs. Time</td>
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<td>81</td>
<td>Driver Nij (N_{CF}) vs. Time</td>
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<td>Driver Nij (N_{CE}) vs. Time</td>
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<td>Passenger Nij (N_{TF}) vs. Time</td>
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<td>Passenger Nij (N_{CF}) vs. Time</td>
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<td>Passenger Nij (N_{CE}) vs. Time</td>
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<td>Center Nij (N_{TF}) vs. Time</td>
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<td>Center Nij (N_{TE}) vs. Time</td>
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<td>121</td>
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<td>A-35</td>
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</tbody>
</table>
25 MPH FRONTAL UNBELTED
2004 LEXUS RX330 (C45102)
Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

Max: 3.3 G's
Tmax: 32.1 ms
Min: -29.5 G's
Tmin: 73.3 ms

Max: 6.9 G's
Tmax: 63.0 ms
Min: -7.9 G's
Tmin: 104.9 ms

Max: 11.2 G's
Tmax: 106.9 ms
Min: -4.6 G's
Tmin: 27.5 ms

Max: 30.0 G's
Tmax: 97.0 ms
Min: 0.0 G's
Tmin: 0.0 ms

CFC 1000
2004 LEXUS RX330 (C45102)

Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

DRIVER HEAD X Velocity (kph) vs TIME (ms)

Max: 40.6 kph
Tmax: 44.3 ms
Min: -10.1 kph
Tmin: 300.0 ms
CFC 180

DRIVER HEAD Y Velocity (kph) vs TIME (ms)

Max: 0.1 kph
Tmax: 65.4 ms
Min: -7.5 kph
Tmin: 137.7 ms
CFC 180

DRIVER HEAD Z Velocity (kph) vs TIME (ms)

Max: 10.9 kph
Tmax: 300.0 ms
Min: -2.0 kph
Tmin: 40.6 ms
CFC 180
25 MPH FRONTAL UNBELTED
2004 LEXUS RX330 (C45102)
Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

DRIVER CHEST X (G's) vs TIME (ms)
Max: 2.2 G's
Tmax: 137.1 ms
Min: -41.4 G's
Tmin: 70.9 ms
CFC 180

DRIVER CHEST Y (G's) vs TIME (ms)
Max: 4.8 G's
Tmax: 94.0 ms
Min: -5.0 G's
Tmin: 31.1 ms
CFC 180

DRIVER CHEST Z (G's) vs TIME (ms)
Max: 4.3 G's
Tmax: 70.9 ms
Min: -3.6 G's
Tmin: 107.2 ms
CFC 180

DRIVER CHEST Resultant (G's) vs TIME (ms)
Max: 41.6 G's
Tmax: 70.9 ms
Min: 0.0 G's
Tmin: 0.0 ms
CFC 180
25 MPH FRONTAL UNBELTED
2004 LEXUS RX330 (C45102)

Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

Max: 39.6 kph
Tmax: 0.0 ms
Min: -10.3 kph
Tmin: 118.2 ms
CFC 180

Max: 6.5 kph
Tmax: 300.0 ms
Min: -4.3 kph
Tmin: 70.7 ms
CFC 180

Max: 1.6 kph
Tmax: 84.1 ms
Min: -1.9 kph
Tmin: 233.3 ms
CFC 180

Max: 1.3 mm
Tmax: 56.2 ms
Min: -23.3 mm
Tmin: 96.0 ms
CFC 600
25 MPH FRONTAL UNBELTED
2004 LEXUS RX330 (C45102)

Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

Max: 462.1 N
Tmax: 135.1 ms
Min: -2490.4 N
Tmin: 27.1 ms
CFC 600

Max: 682.7 N
Tmax: 35.6 ms
Min: -4653.0 N
Tmin: 75.4 ms
CFC 600
25 MPH FRONTAL UNBELTED
2004 LEXUS RX330 (C45102)

Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

PASSENGER HEAD X (G's) vs TIME (ms)
Max: 9.4 G's
Tmax: 41.1 ms
Min: -33.8 G's
Tmin: 88.8 ms
CFC 1000

PASSENGER HEAD Y (G's) vs TIME (ms)
Max: 9.2 G's
Tmax: 91.4 ms
Min: -8.0 G's
Tmin: 37.8 ms
CFC 1000

PASSENGER HEAD Z (G's) vs TIME (ms)
Max: 23.7 G's
Tmax: 75.7 ms
Min: -11.9 G's
Tmin: 120.8 ms
CFC 1000

PASSENGER HEAD Resultant (G's) vs TIME (ms)
Max: 37.6 G's
Tmax: 88.8 ms
Min: 0.0 G's
Tmin: 0.0 ms
CFC 1000
25 MPH FRONTAL UNBELTED
2004 LEXUS RX330 (C45102)
Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

PASSENGER HEAD X Velocity (kph) vs TIME (ms)
Max: 40.4 kph
Tmax: 54.4 ms
Min: -17.7 kph
Tmin: 253.8 ms
CFC 180

PASSENGER HEAD Y Velocity (kph) vs TIME (ms)
Max: 10.3 kph
Tmax: 232.6 ms
Min: -0.4 kph
Tmin: 55.1 ms
CFC 180

PASSENGER HEAD Z Velocity (kph) vs TIME (ms)
Max: 19.8 kph
Tmax: 300.0 ms
Min: -0.3 kph
Tmin: 50.6 ms
CFC 180
Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

25 MPH FRONTAL UNBELTED
2004 LEXUS RX330 (C45102)

PASSENGER NECK FX (N) vs TIME (ms)
Max: 1427.4 N
Tmax: 81.7 ms
Min: -208.2 N
Tmin: 188.7 ms
CFC 1000

PASSENGER NECK FY (N) vs TIME (ms)
Max: 89.4 N
Tmax: 70.3 ms
Min: -169.5 N
Tmin: 88.1 ms
CFC 1000

PASSENGER NECK FZ (N) vs TIME (ms)
Max: 528.3 N
Tmax: 55.1 ms
Min: -837.6 N
Tmin: 83.6 ms
CFC 1000

PASSENGER NECK FRresultant (N) vs TIME (ms)
Max: 1588.0 N
Tmax: 83.6 ms
Min: 0.7 N
Tmin: 3.8 ms
CFC 1000
25 MPH FRONTAL UNBELTED
2004 LEXUS RX330 (C45102)

Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

**PASSENGER CHEST X (G's) vs TIME (ms)**
- Max: 1.6 G's
- Tmax: 177.3 ms
- Min: -30.1 G's
- Tmin: 87.0 ms
- CFC 180

**PASSENGER CHEST Y (G's) vs TIME (ms)**
- Max: 2.2 G's
- Tmax: 42.6 ms
- Min: -6.5 G's
- Tmin: 75.9 ms
- CFC 180

**PASSENGER CHEST Z (G's) vs TIME (ms)**
- Max: 14.5 G's
- Tmax: 89.2 ms
- Min: -4.2 G's
- Tmin: 127.9 ms
- CFC 180

**PASSENGER CHEST Resultant (G's) vs TIME (ms)**
- Max: 33.6 G's
- Tmax: 86.9 ms
- Min: 0.0 G's
- Tmin: 0.0 ms
- CFC 180
25 MPH FRONTAL UNBELTED
2004 LEXUS RX330 (C45102)
Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

PASSENGER CHEST X Velocity (kph) vs TIME (ms)
Max: 39.6 kph
Tmax: 0.0 ms
Min: -14.0 kph
Tmin: 160.7 ms
CFC 180

PASSENGER CHEST Y Velocity (kph) vs TIME (ms)
Max: 0.8 kph
Tmax: 50.0 ms
Min: -4.8 kph
Tmin: 300.0 ms
CFC 180

PASSENGER CHEST Z Velocity (kph) vs TIME (ms)
Max: 12.7 kph
Tmax: 300.0 ms
Min: -3.1 kph
Tmin: 69.0 ms
CFC 180

PASSENGER CHEST DISPLACEMENT (mm) vs TIME (ms)
Max: 1.2 mm
Tmax: 298.2 ms
Min: -6.4 mm
Tmin: 87.7 ms
CFC 600
25 MPH FRONTAL UNBELTED
2004 LEXUS RX330 (C45102)
Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

PASSENGER LEFT FEMUR (N) vs TIME (ms)
Max: 258.0 N
Tmax: 24.5 ms
Min: -4107.2 N
Tmin: 70.8 ms
CFC 600

PASSENGER RIGHT FEMUR (N) vs TIME (ms)
Max: 333.4 N
Tmax: 39.9 ms
Min: -4976.8 N
Tmin: 70.9 ms
CFC 600
25 MPH FRONTAL UNBELTED
2004 LEXUS RX330 (C45102)

Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

CRP HEAD X (G's) vs TIME (ms)
- Max: 26.0 G's
- Tmax: 235.3 ms
- Min: -58.2 G's
- Tmin: 135.4 ms
- CFC 1000

CRP HEAD Y (G's) vs TIME (ms)
- Max: 14.0 G's
- Tmax: 133.1 ms
- Min: -1.3 G's
- Tmin: 290.7 ms
- CFC 1000

CRP HEAD Z (G's) vs TIME (ms)
- Max: 54.6 G's
- Tmax: 119.1 ms
- Min: -1.2 G's
- Tmin: 38.4 ms
- CFC 1000

CRP HEAD Resultant (G's) vs TIME (ms)
- Max: 62.2 G's
- Tmax: 122.3 ms
- Min: 0.0 G's
- Tmin: 5.9 ms
- CFC 1000
25 MPH FRONTAL UNBELTED
2004 LEXUS RX330 (C45102)

Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

CRP HEAD X Velocity (kph) vs TIME (ms)
Max: 39.7 kph
Tmax: 43.1 ms
Min: -26.5 kph
Tmin: 161.6 ms
CFC 180

CRP HEAD Y Velocity (kph) vs TIME (ms)
Max: 16.5 kph
Tmax: 239.8 ms
Min: -0.0 kph
Tmin: 38.2 ms
CFC 180

CRP HEAD Z Velocity (kph) vs TIME (ms)
Max: 166.5 kph
Tmax: 300.0 ms
Min: -0.5 kph
Tmin: 43.0 ms
CFC 180
Test Date: 06/03/04

Speed: 24.6 mph (39.6 km/h)

25 MPH FRONTAL UNBELTED
2004 LEXUS RX330 (C45102)

CRP NECK FX (N) vs TIME (ms)
Max: 98.3 N
Tmax: 229.1 ms
Min: -1920.5 N
Tmin: 135.2 ms
CFC 1000

CRP NECK FY (N) vs TIME (ms)
Max: 748.5 N
Tmax: 134.4 ms
Min: -47.2 N
Tmin: 291.6 ms
CFC 1000

CRP NECK FZ (N) vs TIME (ms)
Max: 2323.2 N
Tmax: 119.5 ms
Min: -50.3 N
Tmin: 37.7 ms
CFC 1000

CRP NECK FResultant (N) vs TIME (ms)
Max: 2821.5 N
Tmax: 132.8 ms
Min: 0.6 N
Tmin: 0.0 ms
CFC 1000
25 MPH FRONTAL UNBELTED
2004 LEXUS RX330 (C45102)

Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

CRP NECK MX (Nm) vs TIME (ms)
Max: 34.2 Nm
Tmax: 125.7 ms
Min: -8.0 Nm
Tmin: 85.7 ms
CFC 600

CRP NECK MY (Nm) vs TIME (ms)
Max: 106.0 Nm
Tmax: 133.6 ms
Min: -56.8 Nm
Tmin: 89.7 ms
CFC 600

CRP NECK MZ (Nm) vs TIME (ms)
Max: 7.6 Nm
Tmax: 141.2 ms
Min: -3.0 Nm
Tmin: 278.2 ms
CFC 600

CRP NECK MResultant (Nm) vs TIME (ms)
Max: 106.4 Nm
Tmax: 133.6 ms
Min: 0.0 Nm
Tmin: 0.0 ms
CFC 600
25 MPH FRONTAL UNBELTED
2004 LEXUS RX330 (C45102)
Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

CRP CHEST X Velocity (kph) vs TIME (ms)
Max: 39.6 kph
Tmax: 0.0 ms
Min: -22.3 kph
Tmin: 251.7 ms
CFC 180

CRP CHEST Y Velocity (kph) vs TIME (ms)
Max: 6.4 kph
Tmax: 179.1 ms
Min: -0.0 kph
Tmin: 0.0 ms
CFC 180

CRP CHEST Z Velocity (kph) vs TIME (ms)
Max: 13.9 kph
Tmax: 300.0 ms
Min: -0.9 kph
Tmin: 48.5 ms
CFC 180

CRP CHEST DISPLACEMENT (mm) vs TIME (ms)
Max: 0.2 mm
Tmax: 36.5 ms
Min: -26.7 mm
Tmin: 121.0 ms
CFC 600
25 MPH FRONTAL UNBELTED
2004 LEXUS RX330 (C45102)

Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

CRP RIGHT FEMUR (N) vs TIME (ms)
Max: 2247.4 N
Tmax: 93.8 ms
Min: -4.2 N
Tmin: 0.0 ms
CFC 600

CRP LEFT FEMUR (N) vs TIME (ms)
Max: 1881.4 N
Tmax: 84.6 ms
Min: -43.6 N
Tmin: 300.0 ms
CFC 600
25 MPH FRONTAL UNBELTED
2004 LEXUS RX330 (C45102)
Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

CRP SHOULDER BELT (N) vs TIME (ms)
Max: 5958.9 N
Tmax: 97.4 ms
Min: -0.2 N
Tmin: 227.7 ms
CFC 60

CRP LAP BELT (N) vs TIME (ms)
Max: 8892.0 N
Tmax: 76.9 ms
Min: -7.6 N
Tmin: 155.2 ms
CFC 60

CRP BELT SP (mm) vs TIME (ms)
Max: 0.1 mm
Tmax: 0.0 ms
Min: -116.6 mm
Tmin: 123.2 ms
CFC 1000
25MPH FRONTAL UNBELTED
2004 LEXUS RX330(C45102)

Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

- Drv. nij (NTF) () vs TIME (ms)
  - Max: 0.1
  - Tmax: 128.3 ms
  - Min: 0.0
  - Tmin: 0.0 ms
  - CFC 60

- Drv. nij (NTE) () vs TIME (ms)
  - Max: 0.4
  - Tmax: 97.1 ms
  - Min: 0.0
  - Tmin: 0.0 ms
  - CFC 60

- Drv. nij (NCF) () vs TIME (ms)
  - Max: 0.1
  - Tmax: 159.6 ms
  - Min: 0.0
  - Tmin: 0.0 ms
  - CFC 60

- Drv. nij (NCE) () vs TIME (ms)
  - Max: 0.1
  - Tmax: 40.4 ms
  - Min: 0.0
  - Tmin: 0.0 ms
  - CFC 60
25MPH FRONTAL UNBELTED
2004 LEXUS RX330(C45102)

Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

Max: 0.4
Tmax: 76.1 ms
Min: 0.0
Tmin: 0.0 ms
CFC 60

Max: 0.2
Tmax: 136.5 ms
Min: 0.0
Tmin: 0.0 ms
CFC 60

Max: 0.6
Tmax: 83.5 ms
Min: 0.0
Tmin: 0.0 ms
CFC 60

Max: 0.3
Tmax: 130.7 ms
Min: 0.0
Tmin: 0.0 ms
CFC 60
25MPH FRONTAL UNBELTED
2004 LEXUS RX330(C45102)

Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

Max: 0.7
Tmax: 132.9 ms
Min: 0.0
Tmin: 0.0 ms
CFC 60

Max: 0.5
Tmax: 89.0 ms
Min: 0.0
Tmin: 0.0 ms
CFC 60

Max: 0.0
Tmax: 24.2 ms
Min: 0.0
Tmin: 0.0 ms
CFC 60

Max: 0.0
Tmax: 42.2 ms
Min: 0.0
Tmin: 0.0 ms
CFC 60
25 MPH FRONTAL UNBELTED
2004 LEXUS RX330 (C45102)

Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

**LEFT REAR SEAT CROSSMEMBER X (G's) vs TIME (ms)**
- Max: 2.1 G's
- Tmax: 18.1 ms
- Min: -31.1 G's
- Tmin: 59.1 ms
- CFC 60

**LEFT REAR SEAT CROSSMEMBER X Velocity (kph) vs TIME (ms)**
- Max: 39.6 kph
- Tmax: 0.0 ms
- Min: -5.3 kph
- Tmin: 300.0 ms
- CFC 180

**RIGHT REAR SEAT CROSSMEMBER X (G's) vs TIME (ms)**
- Max: 2.1 G's
- Tmax: 106.8 ms
- Min: -31.5 G's
- Tmin: 56.9 ms
- CFC 60

**RIGHT REAR SEAT CROSSMEMBER X Velocity (kph) vs TIME (ms)**
- Max: 39.6 kph
- Tmax: 0.0 ms
- Min: -5.7 kph
- Tmin: 95.7 ms
- CFC 180
25 MPH FRONTAL UNBELTED
2004 LEXUS RX330 (C45102)

Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

TOP OF ENGINE X (G's) vs TIME (ms)
- Max: 21.1 G's
- Tmax: 61.6 ms
- Min: -66.5 G's
- Tmin: 46.5 ms
- CFC 60

TOP OF ENGINE X Velocity (kph) vs TIME (ms)
- Max: 39.7 kph
- Tmax: 20.6 ms
- Min: -6.5 kph
- Tmin: 58.7 ms
- CFC 180

BOTTOM OF ENGINE X (G's) vs TIME (ms)
- Max: 2.8 G's
- Tmax: 111.7 ms
- Min: -44.1 G's
- Tmin: 40.3 ms
- CFC 60

BOTTOM OF ENGINE X Velocity (kph) vs TIME (ms)
- Max: 39.6 kph
- Tmax: 0.0 ms
- Min: -4.6 kph
- Tmin: 105.0 ms
- CFC 180
25 MPH FRONTAL UNBELTED
2004 LEXUS RX330 (C45102)
Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

LEFT BRAKE CALIPER X (G's) vs TIME (ms)
Max: 13.0 G's
Tmax: 92.1 ms
Min: -45.1 G's
Tmin: 51.0 ms
CFC 60

LEFT BRAKE CALIPER X Velocity (kph) vs TIME (ms)
Max: 39.8 kph
Tmax: 6.6 ms
Min: -9.7 kph
Tmin: 87.0 ms
CFC 180

RIGHT BRAKE CALIPER X (G's) vs TIME (ms)
Max: 6.5 G's
Tmax: 124.5 ms
Min: -42.1 G's
Tmin: 49.1 ms
CFC 60

RIGHT BRAKE CALIPER X Velocity (kph) vs TIME (ms)
Max: 39.7 kph
Tmax: 0.0 ms
Min: -7.2 kph
Tmin: 141.7 ms
CFC 180
25 MPH FRONTAL UNBELTED
2004 LEXUS RX330 (C45102)

Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

INSTRUMENT PANEL X (G's) vs TIME (ms)
Max: 9.2 G's
Tmax: 92.0 ms
Min: -57.3 G's
Tmin: 53.9 ms
CFC 60

INSTRUMENT PANEL X Velocity (kph) vs TIME (ms)
Max: 39.6 kph
Tmax: 4.5 ms
Min: -6.7 kph
Tmin: 275.8 ms
CFC 180

TRUNK Z (G's) vs TIME (ms)
Max: 11.8 G's
Tmax: 83.0 ms
Min: -13.8 G's
Tmin: 61.8 ms
CFC 60

TRUNK Z Velocity (kph) vs TIME (ms)
Max: 0.6 kph
Tmax: 300.0 ms
Min: -13.6 kph
Tmin: 77.4 ms
CFC 180
25 MPH FRONTAL UNBELTED
2004 LEXUS RX330 (C45102)

Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

MHD LEFT (rad/sec) vs TIME (ms)

-20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

Max: 0.9 rad/sec
Tmax: 210.0 ms
Min: -1.0 rad/sec
Tmin: 211.9 ms
CFC 1000

MHD RIGHT (rad/sec) vs TIME (ms)

-20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

Max: 1.4 rad/sec
Tmax: 211.2 ms
Min: -1.1 rad/sec
Tmin: 212.1 ms
CFC 1000
25 MPH FRONTAL UNBELTED
2004 LEXUS RX330 (C45102)
Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

**BARRIER FORCE - UPPER LEFT (kn) vs TIME (ms)**
- Max: 42.5 kn
- Tmax: 52.6 ms
- Min: -2.6 kn
- Tmin: 5.9 ms

**BARRIER FORCE - UPPER CENTER (kn) vs TIME (ms)**
- Max: 82.3 kn
- Tmax: 43.5 ms
- Min: -0.9 kn
- Tmin: 0.0 ms

**BARRIER FORCE - UPPER RIGHT (kn) vs TIME (ms)**
- Max: 89.5 kn
- Tmax: 47.2 ms
- Min: -3.6 kn
- Tmin: 188.7 ms
Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

BARRIER FORCE - LOWER LEFT (kn) vs TIME (ms)
Max: 156.4 kn
Tmax: 56.7 ms
Min: -2.0 kn
Tmin: 6.8 ms
CFC 60

BARRIER FORCE - LOWER CENTER (kn) vs TIME (ms)
Max: 116.1 kn
Tmax: 56.0 ms
Min: -1.3 kn
Tmin: 155.3 ms
CFC 60

BARRIER FORCE - LOWER RIGHT (kn) vs TIME (ms)
Max: 174.7 kn
Tmax: 47.5 ms
Min: -1.6 kn
Tmin: 5.0 ms
CFC 60
25 MPH FRONTAL UNBELTED
2004 LEXUS RX330 (C45102)

Test Date: 06/03/04
Speed: 24.6 mph (39.6 km/h)

Max: 601.4 kn
Tmax: 440.2 mm
Min: -6.6 kn
Tmin: 346.1 mm
CFC 60
APPENDIX B

LOW RISK TEST DATA
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LOW RISK DEPLOYMENT TEST
2004 LEXUS RX330 (5TH P1)

Test Date: 04/15/04
Speed: 0.0 mph (0.0 km/h)

5TH FEM. DRIVER HEAD X (G's) vs TIME (ms)
Max: 15.3 G's
Tmax: 176.8 ms
Min: -24.9 G's
Tmin: 50.5 ms
CFC 1000

5TH FEM. DRIVER HEAD Y (G's) vs TIME (ms)
Max: 4.6 G's
Tmax: 40.6 ms
Min: -4.1 G's
Tmin: 7.6 ms
CFC 1000

5TH FEM. DRIVER HEAD Z (G's) vs TIME (ms)
Max: 15.6 G's
Tmax: 11.6 ms
Min: -19.9 G's
Tmin: 7.9 ms
CFC 1000

5TH FEM. DRIVER HEAD Resultant (G's) vs TIME (ms)
Max: 30.9 G's
Tmax: 7.6 ms
Min: 0.0 G's
Tmin: 0.0 ms
CFC 1000
LOW RISK DEPLOYMENT TEST
2004 LEXUS RX330 (5TH P1)
Test Date: 04/15/04
Speed: 0.0 mph (0.0 km/h)

5TH FEM. DRIVER HEAD X Velocity (kph) vs TIME (ms)
Max: 8.4 kph
Tmax: 300.0 ms
Min: -20.6 kph
Tmin: 69.5 ms
CFC 180

5TH FEM. DRIVER HEAD Y Velocity (kph) vs TIME (ms)
Max: 4.2 kph
Tmax: 294.7 ms
Min: -0.2 kph
Tmin: 13.4 ms
CFC 180

5TH FEM. DRIVER HEAD Z Velocity (kph) vs TIME (ms)
Max: 28.0 kph
Tmax: 218.1 ms
Min: -1.1 kph
Tmin: 9.8 ms
CFC 180
LOW RISK DEPLOYMENT TEST
2004 LEXUS RX330 (5TH P1)
Test Date: 04/15/04
Speed: 0.0 mph (0.0 km/h)

5TH FEM. DRIVER NECK MX (Nm) vs TIME (ms)
Max: 15.6 Nm
Tmax: 49.2 ms
Min: -4.2 Nm
Tmin: 12.8 ms
CFC 600

5TH FEM. DRIVER NECK MY (Nm) vs TIME (ms)
Max: 9.9 Nm
Tmax: 239.5 ms
Min: -12.3 Nm
Tmin: 79.5 ms
CFC 600

5TH FEM. DRIVER NECK MZ (Nm) vs TIME (ms)
Max: 4.1 Nm
Tmax: 128.1 ms
Min: -11.1 Nm
Tmin: 66.9 ms
CFC 600

Drv. Occipital Condyle Moment (Nm) vs TIME (ms)
Max: 11.1 Nm
Tmax: 232.1 ms
Min: -12.8 Nm
Tmin: 101.2 ms
CFC 600
LOW RISK DEPLOYMENT TEST
2004 LEXUS RX330 (5TH P1)

Test Date: 04/15/04
Speed: 0.0 mph (0.0 km/h)

5TH FEM. DRIVER CHEST X (G's) vs TIME (ms)
Max: 14.1 G's
Tmax: 245.7 ms
Min: -13.2 G's
 Tmin: 46.4 ms
CFC 180

5TH FEM. DRIVER CHEST Y (G's) vs TIME (ms)
Max: 2.5 G's
Tmax: 45.4 ms
Min: -1.0 G's
 Tmin: 73.1 ms
CFC 180

5TH FEM. DRIVER CHEST Z (G's) vs TIME (ms)
Max: 3.9 G's
Tmax: 52.1 ms
Min: -1.7 G's
 Tmin: 81.2 ms
CFC 180

5TH FEM. DRIVER CHEST Resultant (G's) vs TIME (ms)
Max: 14.1 G's
Tmax: 245.7 ms
Min: 0.0 G's
 Tmin: 0.0 ms
CFC 180
LOW RISK DEPLOYMENT TEST
2004 LEXUS RX330 (5TH P1)

Test Date: 04/15/04
Speed: 0.0 mph (0.0 km/h)

5TH FEM. DRIVER CHEST X Velocity (kph) vs TIME (ms)
Max: 8.6 kph
Tmax: 300.0 ms
Min: -7.8 kph
Tmin: 63.2 ms
CFC 180

5TH FEM. DRIVER CHEST Y Velocity (kph) vs TIME (ms)
Max: 0.6 kph
Tmax: 171.4 ms
Min: -0.1 kph
Tmin: 40.3 ms
CFC 180

5TH FEM. DRIVER CHEST Z Velocity (kph) vs TIME (ms)
Max: 8.5 kph
Tmax: 233.1 ms
Min: -0.1 kph
Tmin: 11.1 ms
CFC 180

5TH FEM. DRIVER CHEST DISPLACEMENT (mm) vs TIME (ms)
Max: 0.3 mm
Tmax: 0.0 ms
Min: -6.4 mm
Tmin: 55.3 ms
CFC 600
LOW RISK DEPLOYMENT TEST
2004 LEXUS RX330 (5TH P1)

Test Date: 04/15/04
Speed: 0.0 mph (0.0 km/h)

5TH FEM. DRIVER LEFT FEMUR (N) vs TIME (ms)
Max: 169.4 N
Tmax: 235.1 ms
Min: -63.9 N
Tmin: 295.7 ms
CFC 600

5TH FEM. DRIVER RIGHT FEMUR (N) vs TIME (ms)
Max: 169.2 N
Tmax: 57.9 ms
Min: -62.2 N
Tmin: 297.2 ms
CFC 600
LOW RISK DEPLOYMENT TEST
2004 LEXUS RX330 (5TH P1)

Test Date: 04/15/04
Speed: 0.0 mph (0.0 km/h)

### FIRE VOLTAGE #1 (Volts) vs TIME (ms)
- **Max:** 14.5 Volts
- **Tmax:** 0.3 ms
- **Min:** -0.3 Volts
- **Tmin:** 15.6 ms

### FIRE CURRENT #1 (Amps) vs TIME (ms)
- **Max:** 3.9 Amps
- **Tmax:** 0.6 ms
- **Min:** -0.5 Amps
- **Tmin:** 6.5 ms

### FIRE VOLTAGE #2 (Volts) vs TIME (ms)
- **Max:** 16.1 Volts
- **Tmax:** 30.4 ms
- **Min:** -0.3 Volts
- **Tmin:** 29.7 ms

### FIRE CURRENT #2 (Amps) vs TIME (ms)
- **Max:** 1.8 Amps
- **Tmax:** 30.1 ms
- **Min:** -0.4 Amps
- **Tmin:** 48.8 ms
LOW RISK DEPLOYMENT TEST
2004 LEXUS RX330 (5TH P1)

Test Date: 04/15/04
Speed: 0.0 mph (0.0 km/h)

Drv. nij (NTF) () vs TIME SPECIAL CHS (ms)
Max: 0.3
Tmax: 50.7 ms
Min: 0.0
Tmin: 0.1 ms
CFC 1000

Drv. nij (NTE) () vs TIME SPECIAL CHS (ms)
Max: 0.3
Tmax: 60.9 ms
Min: 0.0
Tmin: 0.1 ms
CFC 1000

Drv. nij (NCF) () vs TIME SPECIAL CHS (ms)
Max: 0.1
Tmax: 16.8 ms
Min: 0.0
Tmin: 0.1 ms
CFC 1000

Drv. nij (NCE) () vs TIME SPECIAL CHS (ms)
Max: 0.0
Tmax: 1.3 ms
Min: 0.0
Tmin: 0.2 ms
CFC 1000

B-9
LOW RISK DEPLOYMENT
2004 LEXUS RX330 (5TH P2)
Test Date: 04/29/04
Speed: 0.0 mph (0.0 km/h)

5TH FEM. DRIVER HEAD X (G's) vs TIME (ms)
Max: 97.0 G's
Tmax: 75.0 ms
Min: -17.2 G's
Tmin: 49.5 ms
CFC 1000

5TH FEM. DRIVER HEAD Y (G's) vs TIME (ms)
Max: 3.7 G's
Tmax: 78.1 ms
Min: -6.7 G's
Tmin: 74.7 ms
CFC 1000

5TH FEM. DRIVER HEAD Z (G's) vs TIME (ms)
Max: 21.3 G's
Tmax: 75.1 ms
Min: -7.2 G's
Tmin: 82.5 ms
CFC 1000

5TH FEM. DRIVER HEAD Resultant (G's) vs TIME (ms)
Max: 99.4 G's
Tmax: 75.0 ms
Min: 0.0 G's
Tmin: 0.0 ms
CFC 1000
LOW RISK DEPLOYMENT
2004 LEXUS RX330 (5TH P2)

Test Date: 04/29/04
Speed: 0.0 mph (0.0 km/h)

5TH FEM. DRIVER HEAD X Velocity (kph) vs TIME (ms)
Max: 0.0 kph
Tmax: 0.0 ms
Min: -15.2 kph
Tmin: 70.0 ms
CFC 180

5TH FEM. DRIVER HEAD Y Velocity (kph) vs TIME (ms)
Max: 0.6 kph
Tmax: 140.8 ms
Min: -0.9 kph
Tmin: 300.0 ms
CFC 180

5TH FEM. DRIVER HEAD Z Velocity (kph) vs TIME (ms)
Max: 9.9 kph
Tmax: 77.2 ms
Min: -0.0 kph
Tmin: 6.1 ms
CFC 180
LOW RISK DEPLOYMENT
2004 LEXUS RX330 (5TH P2)
Test Date: 04/29/04
Speed: 0.0 mph (0.0 km/h)

5TH FEM. DRIVER NECK MX (Nm) vs TIME (ms)
Max: 6.5 Nm
Tmax: 75.9 ms
Min: -3.9 Nm
Tmin: 91.4 ms
CFC 600

5TH FEM. DRIVER NECK MY (Nm) vs TIME (ms)
Max: 43.3 Nm
Tmax: 79.2 ms
Min: -51.7 Nm
Tmin: 50.6 ms
CFC 600

5TH FEM. DRIVER NECK MZ (Nm) vs TIME (ms)
Max: 3.7 Nm
Tmax: 93.0 ms
Min: -2.1 Nm
Tmin: 163.1 ms
CFC 600

Drv. Occipital Condyle Moment (Nm) vs TIME (ms)
Max: 40.5 Nm
Tmax: 79.3 ms
Min: -35.0 Nm
Tmin: 50.6 ms
CFC 600
LOW RISK DEPLOYMENT
2004 LEXUS RX330 (5TH P2)
Test Date: 04/29/04
Speed: 0.0 mph (0.0 km/h)

5TH FEM. DRIVER CHEST X (G's) vs TIME (ms)
Max: 16.8 G's
Tmax: 93.5 ms
Min: -38.9 G's
Tmin: 12.9 ms
CFC 180

5TH FEM. DRIVER CHEST Y (G's) vs TIME (ms)
Max: 7.4 G's
Tmax: 14.1 ms
Min: -7.7 G's
Tmin: 12.7 ms
CFC 180

5TH FEM. DRIVER CHEST Z (G's) vs TIME (ms)
Max: 6.7 G's
Tmax: 48.0 ms
Min: -4.4 G's
Tmin: 13.8 ms
CFC 180

5TH FEM. DRIVER CHEST Resultant (G's) vs TIME (ms)
Max: 39.7 G's
Tmax: 12.9 ms
Min: 0.0 G's
Tmin: 0.0 ms
CFC 180
LOW RISK DEPLOYMENT
2004 LEXUS RX330 (5TH P2)
Test Date: 04/29/04
Speed: 0.0 mph (0.0 km/h)

5TH FEM. DRIVER CHEST X Velocity (kph) vs TIME (ms)
- Max: 3.6 kph
- Tmax: 300.0 ms
- Min: -8.7 kph
- Tmin: 57.7 ms
- CFC 180

5TH FEM. DRIVER CHEST Y Velocity (kph) vs TIME (ms)
- Max: 0.0 kph
- Tmax: 25.5 ms
- Min: -1.0 kph
- Tmin: 90.3 ms
- CFC 180

5TH FEM. DRIVER CHEST Z Velocity (kph) vs TIME (ms)
- Max: 4.8 kph
- Tmax: 130.8 ms
- Min: -0.0 kph
- Tmin: 3.8 ms
- CFC 180

5TH FEM. DRIVER CHEST DISPLACEMENT (mm) vs TIME (ms)
- Max: 0.3 mm
- Tmax: 0.0 ms
- Min: -21.0 mm
- Tmin: 17.7 ms
- CFC 600
LOW RISK DEPLOYMENT
2004 LEXUS RX330 (5TH P2)
Test Date: 04/29/04
Speed: 0.0 mph (0.0 km/h)

5TH FEM. DRIVER LEFT FEMUR (N) vs TIME (ms)
Max: 380.8 N
Tmax: 18.4 ms
Min: -130.0 N
Tmin: 16.1 ms
CFC 600

5TH FEM. DRIVER RIGHT FEMUR (N) vs TIME (ms)
Max: 556.7 N
Tmax: 15.7 ms
Min: -173.2 N
Tmin: 16.9 ms
CFC 600
LOW RISK DEPLOYMENT
2004 LEXUS RX330 (5TH P2)

Test Date: 04/29/04
Speed: 0.0 mph (0.0 km/h)

FIRE VOLTAGE #1 (Volts) vs TIME (ms)
Max: 16.1 Volts
Tmax: 0.3 ms
Min: -0.3 Volts
Tmin: 15.5 ms
CFC 1000

FIRE CURRENT #1 (Amps) vs TIME (ms)
Max: 4.3 Amps
Tmax: 0.6 ms
Min: -0.7 Amps
Tmin: 15.5 ms
CFC 1000

FIRE VOLTAGE #2 (Volts) vs TIME (ms)
Max: 16.5 Volts
Tmax: 30.3 ms
Min: -0.3 Volts
Tmin: 29.7 ms
CFC 1000

FIRE CURRENT #2 (Amps) vs TIME (ms)
Max: 1.4 Amps
Tmax: 30.0 ms
Min: -0.6 Amps
Tmin: 30.4 ms
CFC 1000
APPENDIX C

CRASH TEST PHOTOGRAPHS
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Vehicle Certification Label

MFD. BY: TOYOTA MOTOR CORPORATION

GVWR: 2380KG (5245LB)

GAWR: FRT. 1300KG (2865LB) WITH 225/65R17 TIRES.
17X6 1/2JJ RIMS, AT 210KPA (30PSI) COLD.

RR. 1300KG (2865LB) WITH 225/65R17 TIRES.
17X6 1/2JJ RIMS, AT 210KPA (30PSI) COLD.

THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR
VEHICLE SAFETY AND THEFT PREVENTION STANDARDS IN EFFECT ON
THE DATE OF MANUFACTURE SHOWN ABOVE.

JTJHA31U940045394 MPV

C/TR: 062/LA00 MCU38L-AWAGKA
A/TM: -01B/U151F MADE IN JAPAN 179
TIRE AND LOADING INFORMATION

SEATING CAPACITY: TOTAL 5
FRONT 2: REAR 3
The combined weight of occupants and cargo should never exceed 420 kg or 925 lbs.

ORIGINAL TIRE SIZE
COLD TIRE INFLATION PRESSURE
225/65R17
FRONT 210kPa,30PSI
REAR 210kPa,30PSI

SEE OWNER’S MANUAL FOR ADDITIONAL INFORMATION

INFORMATION SUR LES PNEUS ET LE CHARGEMENT

NOMBRE DE PLACES ASSISES: TOTAL 5
AVANT 2: ARRIÈRE 3
Le poids total des occupants et du chargement ne doit jamais être supérieur à 420 kg ou 925 lb.

DIMENSION DES PNEUS D’ORIGINE
PRESSION DE GONFLAGE À FROID
225/65R17
AVANT 210kPa,30PSI
ARRIERE 210kPa,30PSI

POUR DE PLUS AMPLES INFORMATIONS,
VOIR LE MANUEL DU PROPRIÉTAIRE
3 N

48230
Pre-Test Front View of Test Vehicle
Post-Test Front View of Test Vehicle
Pre-Test Right Side View of Test Vehicle
Pre-Test Left Side View of Test Vehicle
Post-Test Left Side View of Test Vehicle
Post-Test Right Front Three-Quarter View of Test Vehicle
Pre-Test Left Rear Three-Quarter View of Test Vehicle
Post-Test Left Rear Three-Quarter View of Test Vehicle
Pre-Test Rear View of Test Vehicle
Post-Test Rear View of Test Vehicle
Post-Test Fuel Filler Cap View
Post-Test Front Underbody View
Pre-Test Driver Dummy Front View (head position)
Pre-Test Driver Dummy Position Left Side View
Pre-Test Driver Dummy Position Left Side View (Door Open)
Pre-Test Driver Dummy Seat Position
Pre-Test Driver Dummy Feet Position
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Post-Test Driver Side Knee Bolster View
Post-Test Driver Dummy Head Contact
Post-Test Driver Dummy Knee Contact
Post-Test Driver Dummy Airbag Contact
Pre-Test Passenger Dummy Seat Position

PRE-TEST

C45102
25 MPH FRONTAL UNBELTED
04060301
MGA RESEARCH CORP.
2004 LEXUS RX330
Pre-Test Passenger Dummy Feet Position
Pre-Test Passenger Side Knee Bolster View
Post-Test Passenger Side Knee Bolster View
Post-Test Passenger Dummy Airbag Contact
Pre-Test Rear Pass. Dummy Position Left Side View (Door Open)
Pre-Test Rear Passenger Dummy Position Right Side View
Pre-Test Rear Passenger Dummy Left Side Feet Position
Pre-Test Rear Passenger Dummy Right Side Feet Position
Pre-Test Rear Passenger Left Side Knee Bolster View
Pre-Test Rear Passenger Right Side Knee Bolster View
Post-Test Rear Passenger Dummy Knee Contact
Temperature Plot
APPENDIX D

LOW RISK PHOTOGRAPHS
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5th% Low Risk Deployment Position 1
4-15-04 C45102
2004 Lexus RX330
MGA Research Corp.
Pre-Test 5th Fem. P1 Driver Dummy Left Side Head Position View
Pre-Test 5th Fem. P1 Driver Dummy Right Side Head Position View
Post-Test 5th Fem. P1 Driver Dummy Right Side Mid Position View
Pre-Test 5th Fem. P1 Driver Dummy Left Side Knee Position View
Pre-Test 5th Fem. P1 Driver Dummy Right Side Knee Position View
Post-Test 5th Fem. P1 Driver Dummy Left Side Head Contact View
Post-Test 5th Fem. P1 Driver Dummy Airbag Left View
Post-Test 5th Fem. P1 Driver Dummy Airbag Right View
Post-Test 5th Fem. P2 Driver Dummy Left Side View

5th % Low Risk Deployment Position 2
4-29-04 C45102
2004 Lexus RX330
MGA Research Corp.
5th % Low Risk Deployment Position 2
4-29-04       C45102
2004 Lexus RX330
MGA Research Corp.
Pre-Test 5th Fem. P2 Driver Dummy Right Side View (Door Open)
Post-Test 5th Fem. P2 Driver Dummy Right Side View (Door Open)
Pre-Test 5th Fem. P2 Driver Dummy Left Side Head Position View
Pre-Test 5th Fem. P2 Driver Dummy Front View
Pre-Test 5th Fem. P2 Driver Dummy Left Side Mid Position View
Pre-Test 5th Fem. P2 Driver Dummy Right Side Knee Position View
Post-Test 5th Fem. P2 Driver Dummy Right Side Knee Position View
Post-Test 5th Fem. P2 Driver Dummy Airbag Contact View
The location of the “geometric center of the opening through which the air bag deploys into the occupant compartment”
APPENDIX E
SUPPRESSION PHOTOGRAPHS
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Photo No. 141. 3-Year-Old Unbelted, Rearward Seat Track, Position 4 E-41
Photo No. 142. 3-Year-Old Unbelted, Rearward Seat Track, Position 5 E-41
Photo No. 143. 3-Year-Old Unbelted, Rearward Seat Track, Position 6 E-41
Photo No. 144. 3-Year-Old Unbelted, Rearward Seat Track, Position 7 E-42
Photo No. 145. Unbelted 5th Percentile Female Reactivation, Middle Seat Track E-42
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DOT/NHTSA 208 Suppression Test - 2004 Lexus RX330 (C45102)

Newborn Section A Car Bed

- Cosco Dream Ride Car Bed With Belt, Forward Seat Track
- Cosco Dream Ride Car Bed With Belt, Middle Seat Track
- Cosco Dream Ride Car Bed With Belt, Rearward Seat Track
- Unbelted 5th Percentile Female Reactivation, Rearward Seat Track
Britax Handle With Care 191 With Belt, Forward Seat Track, Handle Down

Britax Handle With Care 191 With Belt, Middle Seat Track, Handle Down

Britax Handle With Care 191 With Belt, Rearward Seat Track, Handle Down

Britax Handle With Care 191 Unbelted, Forward Seat Track, Handle Down
Britax Handle With Care 191 Unbelted, Middle Seat Track, Handle Down

Britax Handle With Care 191 Unbelted, Rearward Seat Track, Handle Down

Britax Handle With Care 191 Fwd Facing Unbelted, Forward Seat Track, Handle Down

Britax Handle With Care 191 Fwd Facing Unbelted, Middle Seat Track, Handle Down
DOT/NHTSA 208 Suppression Test - 2004 Lexus RX330 (C45102)
12 Month  Section B  Rear Facing CRS

Britax Handle With Care 191 Fwd Facing Unbelted, Rearward Seat Track, Handle Down

Unbelted 5th Percentile Female Reactivation, Middle Seat Track
DOT/NHTSA 208 Suppression Test - 2004 Lexus RX330 (C45102)

12 Month Section B Rear Facing CRS

Evenflo First Choice 204 Unbelted, Rearward Seat Track, Handle Down

Evenflo First Choice 204 Fwd Facing Unbelted, Forward Seat Track, Handle Up

Evenflo First Choice 204 Fwd Facing Unbelted, Middle Seat Track, Handle Up

Evenflo First Choice 204 Fwd Facing Unbelted, Rearward Seat Track, Handle Up
Unbelted 5th Percentile Female Reactivation,
Middle Seat Track
DOT/NHTSA 208 Suppression Test - 2004 Lexus RX330 (C45102)
12 Month Section B Rear Facing CRS

NO PHOTOGRAPH AVAILABLE

Graco Infant W/ Base With Belt, Forward Seat Track, Handle Up
Graco Infant W/ Base With Belt, Middle Seat Track, Handle Up
Graco Infant W/ Base With Belt, Rearward Seat Track, Handle Down
Graco Infant W/ Base Unbelted, Forward Seat Track, Handle Up
Graco Infant W/ Base Unbelted, Middle Seat Track, Handle Up

Graco Infant W/ Base Unbelted, Rearward Seat Track, Handle Down

Graco Infant W/ Base Fwd Facing Unbelted, Forward Seat Track, Handle Up

Graco Infant W/ Base Fwd Facing Unbelted, Middle Seat Track, Handle Up
DOT/NHTSA 208 Suppression Test - 2004 Lexus RX330 (C45102)
12 Month Section B Rear Facing CRS

Graco Infant W/ Base Fwd Facing Unbelted, Rearward Seat Track, Handle Up
Graco Infant W/O Base With Belt, Middle Seat Track, Handle Up
Graco Infant W/O Base With Belt, Rearward Seat Track, Handle Down
Graco Infant W/O Base Unbelted, Middle Seat Track, Handle Up
DOT/NHTSA 208 Suppression Test - 2004 Lexus RX330 (C45102)
12 Month Section B Rear Facing CRS

Graco Infant W/O Base Unbelted, Rearward Seat Track, Handle Down
Graco Infant W/O Base Fwd Facing Unbelted, Forward Seat Track, Handle Up
Graco Infant W/O Base Fwd Facing Unbelted, Middle Seat Track, Handle Up
Graco Infant W/O Base Fwd Facing Unbelted, Rearward Seat Track, Handle Up
Unbelted 5th Percentile Female Reactivation,
Forward Seat Track
DOT/NHTSA 208 Suppression Test - 2004 Lexus RX330 (C45102)

12 Month Section C Forward Facing Convertible CRS

Britax Roundabout 161 Fwd Facing With Belt, Forward Seat Track

Britax Roundabout 161 Fwd Facing With Belt, Middle Seat Track

Britax Roundabout 161 Fwd Facing With Belt, Rearward Seat Track

Britax Roundabout 161 Fwd Facing Unbelted, Forward Seat Track
12 Month Section C Forward Facing Convertible CRS

Britax Roundabout 161 Fwd Facing Unbelted, Middle Seat Track

Britax Roundabout 161 Fwd Facing Unbelted, Rearward Seat Track

Britax Roundabout 161 Rear Facing With Belt, Forward Seat Track

Britax Roundabout 161 Rear Facing With Belt, Middle Seat Track
DOT/NHTSA 208 Suppression Test - 2004 Lexus RX330 (C45102)
12 Month Section C Forward Facing Convertible CRS

Britax Roundabout 161 Rear Facing With Belt, Rearward Seat Track
Britax Roundabout 161 Rear Facing Unbelted, Forward Seat Track
Britax Roundabout 161 Rear Facing Unbelted, Middle Seat Track
Britax Roundabout 161 Rear Facing Unbelted, Rearward Seat Track
Unbelted 5th Percentile Female Reactivation, Rearward Seat Track
Century Encore Fwd Facing With Belt, Forward Seat Track
Century Encore Fwd Facing With Belt, Middle Seat Track
Century Encore Fwd Facing With Belt, Rearward Seat Track
Century Encore Fwd Facing Unbelted, Forward Seat Track
12 Month Section C Forward Facing Convertible CRS

Century Encore Rear Facing With Belt, Rearward Seat Track

Century Encore Rear Facing Unbelted, Forward Seat Track

Century Encore Rear Facing Unbelted, Middle Seat Track

Century Encore Rear Facing Unbelted, Rearward Seat Track
DOT/NHTSA 208 Suppression Test - 2004 Lexus RX330 (C45102)
12 Month Section C Forward Facing Convertible CRS

Unbelted 5th Percentile Female Reactivation,
Middle Seat Track
DOT/NHTSA 208 Suppression Test - 2004 Lexus RX330 (C45102)

12 Month Section C Forward Facing Convertible CRS

Evenflo Medallion 254 Fwd Facing With Belt, Forward Seat Track

Evenflo Medallion 254 Fwd Facing With Belt, Middle Seat Track

Evenflo Medallion 254 Fwd Facing With Belt, Rearward Seat Track

Evenflo Medallion 254 Fwd Facing Unbelted, Forward Seat Track
Evenflo Medallion 254 Fwd Facing Unbelted, Middle Seat Track

Evenflo Medallion 254 Fwd Facing Unbelted, Rearward Seat Track

Evenflo Medallion 254 Rear Facing With Belt, Forward Seat Track

Evenflo Medallion 254 Rear Facing With Belt, Middle Seat Track
DOT/NHTSA 208 Suppression Test - 2004 Lexus RX330 (C45102)

12 Month Section C

Forward Facing Convertible CRS

Evenflo Medallion 254 Rear Facing With Belt,
Rearward Seat Track

Evenflo Medallion 254 Rear Facing Unbelted,
Forward Seat Track

Evenflo Medallion 254 Rear Facing Unbelted,
Middle Seat Track

Evenflo Medallion 254 Rear Facing Unbelted,
Rearward Seat Track
Unbelted 5th Percentile Female Reactivation,
Forward Seat Track
3 Year Old Section C Forward Facing Convertible CRS

3-Year-Old Fwd Facing Century Encore Belted, Forward Seat Track

3-Year-Old Fwd Facing Century Encore Belted, Middle Seat Track

3-Year-Old Fwd Facing Century Encore Belted, Rearward Seat Track

Unbelted 5th Percentile Female Reactivation, Middle Seat Track
DOT/NHTSA 208 Suppression Test - 2004 Lexus RX330 (C45102)

3 Year Old Section C Forward Facing Convertible CRS

3-Year-Old Fwd Facing Evenflo Medallion Belted, Forward Seat Track

3-Year-Old Fwd Facing Evenflo Medallion Belted, Middle Seat Track

3-Year-Old Fwd Facing Evenflo Medallion Belted, Rearward Seat Track

Unbelted 5th Percentile Female Reactivation, Forward Seat Track
3 Year Old Section D Forward Facing Toddler Belt Positioning Booster Seat

3-Year-Old Century Next Step Cinched With Harness, Middle Seat Track

3-Year-Old Century Next Step Cinched With Harness, Rearward Seat Track

Unbelted 5th Percentile Female Reactivation, Rearward Seat Track
DOT/NHTSA 208 Suppression Test - 2004 Lexus RX330 (C45102)

3 Year Old | Section D | Forward Facing Toddler | Belt Positioning Booster Seat

3-Year-Old Cosco High Back Booster Belted, Forward Seat Track

3-Year-Old Cosco High Back Booster Belted, Middle Seat Track

3-Year-Old Cosco High Back Booster Belted, Rearward Seat Track

3-Year-Old Cosco High Back Booster Cinched With Harness, Forward Seat Track
3-Year-Old Cosco High Back Booster Cinched With Harness, Middle Seat Track

3-Year-Old Cosco High Back Booster Cinched With Harness, Rearward Seat Track

Unbelted 5th Percentile Female Reactivation, Middle Seat Track
6 Year Old Section D Forward Facing Toddler Belt Positioning Booster Seat

6-Year-Old Century Next Step Belted, Forward Seat Track

6-Year-Old Century Next Step Belted, Middle Seat Track

6-Year-Old Century Next Step Belted, Rearward Seat Track

6-Year-Old Century Next Step Cinched With Harness, Forward Seat Track
6-Year-Old Century Next Step Cinched With Harness, Middle Seat Track

6-Year-Old Century Next Step Cinched With Harness, Rearward Seat Track

Unbelted 5th Percentile Female Reactivation, Middle Seat Track
DOT/NHTSA 208 Suppression Test - 2004 Lexus RX330 (C45102)

6 Year Old Section D Forward Facing Toddler Belt Positioning Booster Seat

6-Year-Old Cosco High Back Booster Belted, Forward Seat Track

6-Year-Old Cosco High Back Booster Belted, Middle Seat Track

6-Year-Old Cosco High Back Booster Belted, Rearward Seat Track

6-Year-Old Cosco High Back Booster Cinched With Harness, Forward Seat Track
DOT/NHTSA 208 Suppression Test - 2004 Lexus RX330 (C45102)

6 Year Old  Section D  Forward Facing Toddler  Belt Positioning Booster Seat

6-Year-Old Cosco High Back Booster Cinched With Harness, Middle Seat Track

6-Year-Old Cosco High Back Booster Cinched With Harness, Rearward Seat Track

Unbelted 5th Percentile Female Reactivation, Rearward Seat Track
DOT/NHTSA 208 Suppression Test - 2004 Lexus RX330 (C45102)

3 Year Old No CRS

3-Year-Old Unbelted, Forward Seat Track, Position 5

3-Year-Old Unbelted, Forward Seat Track, Position 6

3-Year-Old Unbelted, Forward Seat Track, Position 7

3-Year-Old Unbelted, Middle Seat Track, Position 1
DOT/NHTSA 208 Suppression Test - 2004 Lexus RX330 (C45102)

3 Year Old  No CRS

3-Year-Old Unbelted, Middle Seat Track, Position 2

3-Year-Old Unbelted, Middle Seat Track, Position 3

3-Year-Old Unbelted, Middle Seat Track, Position 4

3-Year-Old Unbelted, Middle Seat Track, Position 5
DOT/NHTSA 208 Suppression Test - 2004 Lexus RX330 (C45102)
3 Year Old No CRS

3-Year-Old Unbelted, Rearward Seat Track, Position 3
3-Year-Old Unbelted, Rearward Seat Track, Position 4
3-Year-Old Unbelted, Rearward Seat Track, Position 5
3-Year-Old Unbelted, Rearward Seat Track, Position 6
DOT/NHTSA 208 Suppression Test - 2004 Lexus RX330 (C45102)

3 Year Old No CRS

3-Year-Old Unbelted, Rearward Seat Track, Position 7

Unbelted 5th Percentile Female Reactivation, Middle Seat Track
DOT/NHTSA 208 Suppression Test - 2004 Lexus RX330 (C45102)

6 Year Old    No CRS

6-Year-Old Unbelted Forward Seat Track, Position 1

6-Year-Old Unbelted Forward Seat Track, Position 2

6-Year-Old Unbelted Forward Seat Track, Position 3

6-Year-Old Unbelted Forward Seat Track, Position 4
DOT/NHTSA 208 Suppression Test - 2004 Lexus RX330 (C45102)

6 Year Old   No CRS

6-Year-Old Unbelted Forward Seat Track, Position 4, Side View

6-Year-Old Unbelted Middle Seat Track, Position 1

6-Year-Old Unbelted Middle Seat Track, Position 2

6-Year-Old Unbelted Middle Seat Track, Position 3
DOT/NHTSA 208 Suppression Test - 2004 Lexus RX330 (C45102)

6 Year Old No CRS

6-Year-Old Unbelted Middle Seat Track, Position 4

6-Year-Old Unbelted Middle Seat Track, Position 4, Side View

6-Year-Old Unbelted Rearward Seat Track, Position 1

6-Year-Old Unbelted Rearward Seat Track, Position 2
DOT/NHTSA 208 Suppression Test - 2004 Lexus RX330 (C45102)

6 Year Old  No CRS

6-Year-Old Unbelted Rearward Seat Track, Position 3

6-Year-Old Unbelted Rearward Seat Track, Position 4

6-Year-Old Unbelted Rearward Set Track, Position 4, Side View

Unbelted 5th Percentile Female Reactivation, Forward Seat Track
APPENDIX F

INSTRUMENTATION CALIBRATION
### INSTRUMENTS FOR DRIVER DUMMY NO. 511

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### INSTRUMENTS FOR PASSENGER DUMMY NO. 506

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### INSTRUMENTS FOR LOW RISK 5TH FEMALE DUMMY NO. 511 (P1)

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### INSTRUMENTS FOR LOW RISK 5TH FEMALE DUMMY NO. 506 (P2)

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<tr>
<td>Chest Y</td>
<td>L17-Z13</td>
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<td>Chest Displacement</td>
<td>506</td>
<td>Servo</td>
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<tr>
<td>Left Femur Load Cell</td>
<td>9426</td>
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<td>Right Femur Load Cell</td>
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### INSTRUMENTS FOR REAR CENTER PASSENGER DUMMY NO. 401

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<thead>
<tr>
<th>Instrument</th>
<th>Serial No.</th>
<th>Manufacturer</th>
<th>Calibration Date</th>
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<tbody>
<tr>
<td>Head X</td>
<td>AGH79</td>
<td>Endevco</td>
<td>2/25/04</td>
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<tr>
<td>Head Y</td>
<td>AGH89</td>
<td>Endevco</td>
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<td>Head Z</td>
<td>AGH55</td>
<td>Endevco</td>
<td>2/25/04</td>
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<tr>
<td>Neck Load Cell</td>
<td>1703</td>
<td>Denton</td>
<td>2/25/04</td>
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<td>Chest X</td>
<td>C12883</td>
<td>Endevco</td>
<td>2/25/04</td>
</tr>
<tr>
<td>Chest Y</td>
<td>C13081</td>
<td>Endevco</td>
<td>2/25/04</td>
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<td>Left Femur Load Cell</td>
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<td>12/05/03</td>
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<td>Right Femur Load Cell</td>
<td>85</td>
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<td>12/05/03</td>
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<tr>
<td>Shoulder Belt Load Cell</td>
<td>195</td>
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<td>Lap Belt Load Cell</td>
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<td>5/22/04</td>
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<td>Belt SP</td>
<td>607</td>
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<td>2/04/03</td>
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### VEHICLE INSTRUMENTS

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<tr>
<td>Left Rear Seat Crossmember X</td>
<td>K21-N31</td>
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<td>Right Rear Seat Crossmember X</td>
<td>L19-K05</td>
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<td>Top of Engine X</td>
<td>K20-J01</td>
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<td>12/15/03</td>
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<td>Bottom of Engine X</td>
<td>L18-N15</td>
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<td>1/30/04</td>
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<td>Left Brake Caliper X</td>
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<td>4/19/04</td>
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<tr>
<td>Right Brake Caliper X</td>
<td>A29-F17</td>
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<td>Instrument Panel X</td>
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<td>Trunk Z</td>
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