This final test report was prepared for the U.S. Department of Transportation, National Highway Traffic Safety Administration, in response to Contract Number DTNH22-03-D-11002.

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Date: August 27, 2007

Reviewed by: _____________________________
David Winkelbauer, Facility Director
Date: August 27, 2007

FINAL REPORT ACCEPTED BY OVSC:

Accepted By: _____________________________
Date: August 27, 2007
### Final Report of FMVSS 208 Compliance Testing of a 2006 Dodge Ram

NHTSA No.: C60304

#### Abstract

Compliance tests were conducted on the subject 2006 Dodge Ram in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP208-13 for the determination of FMVSS 208 compliance. Test failures identified were as follows:

**TP208-13, Data Sheet 8, Step 19; The right front belt would not lock at the minimum length.**

S7.1.1.5(c)(7) The difference between the measurements recorded under S7.1.1.5(c)(6) and (4) shall not exceed 2 inches.

**The 12-month-old CRABI Dummy had a Head Injury Criteria (HIC 15) value of 400 between 19.9 ms and 24.5 ms time during a Low Risk Deployment test using the Century Encore child restraint system.**

S.19.4.2(a) The HIC 15 value shall not exceed 390 at any time during the low risk deployment event.

#### 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

The tests performed are 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 2006 Dodge Ram, NHTSA No. C60304, 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. TP208-13 dated July 27, 2005.
## SECTION 2
### TESTS PERFORMED

**Test Vehicle:** 2006 Dodge Ram  
**NHTSA No.:** C60304  
**Test Program:** FMVSS 208 Compliance  
**Test Dates:** 3/22/06 - 4/26/07

The following checked items indicate the tests that were performed:

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<td>2. Air bag labels (S4.5.1)</td>
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<td>5. Lap belt lockability (S7.1.1.5)</td>
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<tr>
<td>X</td>
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<tr>
<td>X</td>
<td>9. Seat belt retraction (S7.4.5)</td>
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<td>10. Seat belt guides and hardware (S7.4.6)</td>
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<td>11. Suppression tests with 12-month-old CRABI dummy (Part 572, Subpart R)</td>
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<td></td>
<td>12. Suppression tests with newborn infant (Part 572, Subpart K)</td>
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<td>13. Suppression tests with 3-year-old dummy (Part 572, Subpart P)</td>
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<td>14. Suppression tests with 6-year-old dummy (Part 572, Subpart N)</td>
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<td></td>
<td>15. Test of reactivation of the passenger air bag system with an unbelted 5th percentile female dummy</td>
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<td>16. Low risk deployment test with 12-month-old dummy (Part 572, Subpart R)</td>
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<td>X</td>
<td>17. Low risk deployment test with 3-year-old dummy (Part 572, Subpart P)</td>
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<td>X</td>
<td>18. Low risk deployment test with 6-year-old dummy (Part 572, Subpart N)</td>
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<td>X</td>
<td>19. Low risk deployment test with 5th female dummy (Part 572, Subpart O)</td>
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<td>X</td>
<td>20. Impact Tests</td>
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<td></td>
<td>Frontal Oblique</td>
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<td>Belted 50th male dummy driver and passenger (0 to 48 kmph) (S5.1.1(a))</td>
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<tr>
<td></td>
<td>Unbelted 50th male dummy driver and passenger (0 to 48 kmph) (S5.1.2(a)(1))</td>
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<tr>
<td></td>
<td>Unbelted 50th male dummy driver and passenger (32 to 40 kmph) (S5.1.2(a)(1) or S5.1.2(b))</td>
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<tr>
<td>X</td>
<td>Frontal 0°</td>
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<td></td>
<td>Belted 50th male dummy driver (0 to 48 kmph) (S5.1.1(b)(1) or S5.1.1(a))</td>
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<tr>
<td></td>
<td>Belted 50th male dummy passenger (0 to 48 kmph) (S5.1.1.b)(1) or S5.1.1(a))</td>
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<td></td>
<td>Belted 5th female dummy driver (0 to 48 kmph) (S16.1(a))</td>
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<td></td>
<td>Belted 5th female dummy passenger (0 to 48 kmph) (S16.1(a))</td>
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<tr>
<td></td>
<td>Belted 50th male dummy driver and passenger (0 to 56 kmph) (S5.1.1(b)(2))</td>
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<tr>
<td></td>
<td>Unbelted 50th male dummy driver and passenger (0 to 48 kmph) (S5.1.2(b)(1))</td>
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<tr>
<td>X</td>
<td>Unbelted 50th male dummy driver (32 to 40 kmph) (S5.1.2.a)(2) or S5.1.2(b))</td>
</tr>
<tr>
<td>X</td>
<td>Unbelted 50th male dummy passenger (32 to 40 kmph) (S5.1.2.(a)(2) or S5.1.2(b))</td>
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</table>
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 did not appear to meet the performance requirements to which it was tested:

TP208-13, Data Sheet 8, Step 19; The right front belt would not lock at the minimum length. S7.1.1.5(c)(7) The difference between the measurements recorded under S7.1.1.5(c)(6) and (4) shall not exceed 2 inches.

The 12-month-old CRABI Dummy had a Head Injury Criteria (HIC 15) value of 400 between 19.9 ms and 24.5 ms time during a Low Risk Deployment test using the Century Encore child restraint system on 3-28-06. S.19.4.2(a) The HIC 15 value shall not exceed 390 at any time during the low risk deployment event.
SECTION 3

INJURY RESULT SUMMARY FOR FMVSS 208 TESTS

Test Vehicle: 2006 Dodge Ram  
Test Program: FMVSS 208 Compliance  
NHTSA No.: C60304  
Test Dates: 3/28/06 & 3/29/07

5th Percentile Female Low Risk Deployments

5th Percentile Female SN 510 Position 1 (Chin On Module) 3-28-06

<table>
<thead>
<tr>
<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Measured Value</th>
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</thead>
<tbody>
<tr>
<td>HIC15</td>
<td>700</td>
<td>32</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>100.7</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>27.2</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.5</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>185.2</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>221.9</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2070 N</td>
<td>865</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>513</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>22</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>14</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>203</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>132</td>
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Second stage fire time of 150 ms; Injuries calculated on 0 ms to 275 ms

5th Percentile Female SN 505 Position 2 (Chin On Rim) 3-29-07

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<th>Max. Allowable Injury Assessment Values</th>
<th>Measured Value</th>
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<tr>
<td>HIC15</td>
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<td>Time (ms)</td>
<td>NA</td>
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<tr>
<td>Peak Nij (Ncf)</td>
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<td>0.2</td>
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<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>50.8</td>
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<tr>
<td>Neck Tension</td>
<td>2070 N</td>
<td>700</td>
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<td>Neck Compression</td>
<td>2520 N</td>
<td>165</td>
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<td>Chest g</td>
<td>60 g</td>
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<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>23</td>
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<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>4</td>
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<td>Right Femur</td>
<td>6805 N</td>
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Second stage fire time of 150 ms; Injuries calculated on 0 ms to 275 ms
## SECTION 3
### INJURY RESULT SUMMARY FOR FMVSS 208 TESTS

**Test Vehicle:** 2006 Dodge Ram  
**Test Program:** FMVSS 208 Compliance  
**NHTSA No.:** C60304  
**Test Dates:** 3/28/06 & 6/22/06  

### 12-Month-Old Low Risk Deployments

#### 12-Month-Old SN 083 / Century Encore Trial 1 / 3-28-06

<table>
<thead>
<tr>
<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
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<tbody>
<tr>
<td>HIC15</td>
<td>390</td>
<td>400</td>
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<td>Time (ms)</td>
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<tr>
<td>Time (ms)</td>
<td>NA</td>
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<td>Peak Nij (Ncf)</td>
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<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>29.5</td>
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<tr>
<td>Neck Tension</td>
<td>780 N</td>
<td>379</td>
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<tr>
<td>Neck Compression</td>
<td>960 N</td>
<td>190</td>
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<tr>
<td>Chest g</td>
<td>50 g</td>
<td>33</td>
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Second stage fire time of 10 ms; Injuries calculated on 0 ms to 135 ms

#### 12-Month-Old SN 083 / Century Encore Trial 2 / 6-22-06

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<td>Time (ms)</td>
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<td>Neck Tension</td>
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<td>Neck Compression</td>
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<td>517</td>
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<td>Chest g</td>
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Second stage fire time of 10 ms; Injuries calculated on 0 ms to 135 ms
### 12-Month-Old Low Risk Deployments

#### 12-Month-Old SN 083 / Century Encore Trial 3 / 6-22-06

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<td>HIC15</td>
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</tr>
<tr>
<td>Time (ms)</td>
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<td>0.3</td>
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<td>Time (ms)</td>
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</tr>
<tr>
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<td>780 N</td>
<td>471</td>
</tr>
<tr>
<td>Neck Compression</td>
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<tr>
<td>Chest g</td>
<td>50 g</td>
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</table>

Second stage fire time of 10 ms; Injuries calculated on 0 ms to 135 ms

#### 12-Month-Old SN 083 / Century Encore Trial 4 / 6-22-06

<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>
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<td>0.3</td>
</tr>
<tr>
<td>Time (ms)</td>
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</tr>
<tr>
<td>Peak Nij (Nce)</td>
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<td>0.5</td>
</tr>
<tr>
<td>Time (ms)</td>
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<tr>
<td>Peak Nij (Ncf)</td>
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<td>0.4</td>
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<tr>
<td>Time (ms)</td>
<td>NA</td>
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</tr>
<tr>
<td>Neck Tension</td>
<td>780 N</td>
<td>451</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>960 N</td>
<td>389</td>
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<tr>
<td>Chest g</td>
<td>50 g</td>
<td>39</td>
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</table>

Second stage fire time of 10 ms; Injuries calculated on 0 ms to 135 ms
### SECTION 3

**INJURY RESULT SUMMARY FOR FMVSS 208 TESTS**

Test Vehicle: 2006 Dodge Ram  
Test Program: FMVSS 208 Compliance  
NHTSA No.: C60304  
Test Dates: 3/27/07 & 3/28/07

#### 12-Month-Old Low Risk Deployments

**12-Month-Old SN 084 / Century Encore Trial 5 / 3-27-07**

<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>
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<td>Time (ms)</td>
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</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>26.9</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
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<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
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<td>0.1</td>
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<tr>
<td>Time (ms)</td>
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<td>32.5</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>780 N</td>
<td>212</td>
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<tr>
<td>Neck Compression</td>
<td>960 N</td>
<td>77</td>
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<tr>
<td>Chest g</td>
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</table>

Second stage fire time of 10 ms; Injuries calculated on 0 ms to 135 ms

**12-Month-Old SN 084 / Century Encore Trial 6 / 3-28-07**

<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>
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</tr>
<tr>
<td>Peak Nij (Nte)</td>
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<td>0.4</td>
</tr>
<tr>
<td>Time (ms)</td>
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<td>98.0</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.2</td>
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<tr>
<td>Time (ms)</td>
<td>NA</td>
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</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>13.9</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>32.0</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>780 N</td>
<td>267</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>960 N</td>
<td>90</td>
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<tr>
<td>Chest g</td>
<td>50 g</td>
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Second stage fire time of 10 ms; Injuries calculated on 0 ms to 135 ms
### 12-Month-Old SN 084 / Evenflo Medallion / 3-28-07

<table>
<thead>
<tr>
<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Measured Value</th>
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</thead>
<tbody>
<tr>
<td>HIC15</td>
<td>390</td>
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</tr>
<tr>
<td>Peak Nij (Nte)</td>
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<td>0.4</td>
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<tr>
<td>Time (ms)</td>
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<td>105.0</td>
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<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
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</tr>
<tr>
<td>Peak Nij (Nce)</td>
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<tr>
<td>Time (ms)</td>
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<td>0.1</td>
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<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>30.7</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>780 N</td>
<td>258</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>960 N</td>
<td>85</td>
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<tr>
<td>Chest g</td>
<td>50 g</td>
<td>18</td>
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Second stage fire time of 10 ms; Injuries calculated on 0 ms to 135 ms

### 12-Month-Old SN 084 / Britax Roundabout / 3-28-07

<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>
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<td>106</td>
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<tr>
<td>Time (ms)</td>
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</tr>
<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>26.5</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>36.8</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
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<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>30.7</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>780 N</td>
<td>261</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>960 N</td>
<td>30</td>
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<tr>
<td>Chest g</td>
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Second stage fire time of 10 ms; Injuries calculated on 0 ms to 135 ms
### SECTION 3

**INJURY RESULT SUMMARY FOR FMVSS 208 TESTS**

Test Vehicle: 2006 Dodge Ram  
Test Program: FMVSS 208 Compliance  
NHTSA No.: C60304  
Test Date: 3/28/07

**12-Month-Old Low Risk Deployments**

**12-Month-Old SN 084 / Britax Handle With Care / 3-28-07**

<table>
<thead>
<tr>
<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Measured Value</th>
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<tbody>
<tr>
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<tr>
<td>Peak Nij (Nte)</td>
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<td>0.1</td>
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<tr>
<td>Time (ms)</td>
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<td>0.0</td>
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<tr>
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<td>0.1</td>
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<tr>
<td>Time (ms)</td>
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<td>33.4</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
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<td>0.2</td>
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<tr>
<td>Time (ms)</td>
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<td>49.7</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>780 N</td>
<td>17</td>
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<tr>
<td>Neck Compression</td>
<td>960 N</td>
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<tr>
<td>Chest g</td>
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Second stage fire time of 10 ms; Injuries calculated on 0 ms to 135 ms

**12-Month-Old SN 084 / Graco Infant / 3-28-07**

<table>
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<tbody>
<tr>
<td>HIC15</td>
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<td>Time (ms)</td>
<td>NA</td>
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</tr>
<tr>
<td>Peak Nij (Ntf)</td>
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<td>0.0</td>
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<td>Time (ms)</td>
<td>NA</td>
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<td>0.1</td>
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<td>Time (ms)</td>
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<td>60.2</td>
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<tr>
<td>Peak Nij (Ncf)</td>
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<td>0.3</td>
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<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>35.6</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>780 N</td>
<td>43</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>960 N</td>
<td>230</td>
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<tr>
<td>Chest g</td>
<td>50 g</td>
<td>5</td>
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</table>

Second stage fire time of 10 ms; Injuries calculated on 0 ms to 135 ms
### 12-Month-Old Low Risk Deployments

**12-Month-Old SN 084 / Evenflo First Choice / 3-28-07**

<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>390</td>
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</tr>
<tr>
<td>Peak Nij (Nte)</td>
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<tr>
<td>Time (ms)</td>
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<tr>
<td>Peak Nij (Ntf)</td>
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<td>0.1</td>
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<tr>
<td>Time (ms)</td>
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<td>0.1</td>
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<tr>
<td>Time (ms)</td>
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<tr>
<td>Peak Nij (Ncf)</td>
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<td>0.1</td>
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<tr>
<td>Time (ms)</td>
<td>NA</td>
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<tr>
<td>Neck Tension</td>
<td>780 N</td>
<td>60</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>960 N</td>
<td>54</td>
</tr>
<tr>
<td>Chest g</td>
<td>50 g</td>
<td>2</td>
</tr>
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</table>

Second stage fire time of 10 ms; Injuries calculated on 0 ms to 135 ms
## SECTION 3
### INJURY RESULT SUMMARY FOR FMVSS 208 TESTS

**Test Vehicle:** 2006 Dodge Ram  
**NHTSA No.:** C60304  
**Test Program:** FMVSS 208 Compliance  
**Test Dates:** 4/10/07

### 3-Year-Old Low Risk Deployments

#### 3-Year-Old SN 032 Position 1 (Chest On Instrument Panel) 4-10-07

<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>570</td>
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<tr>
<td>Peak Nij (Nte)</td>
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<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>39.9</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
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<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>17.0</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
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<td>0.0</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>0.1</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>10.4</td>
</tr>
<tr>
<td>Neck Tension</td>
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<td>303</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>1380 N</td>
<td>32</td>
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<tr>
<td>Chest g</td>
<td>55 g</td>
<td>8</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>34 mm</td>
<td>4</td>
</tr>
</tbody>
</table>

Second stage fire time of 150 ms; Injuries calculated on 0 ms to 100 ms

#### 3-Year-Old SN 032 Position 2 (Head On Instrument Panel) 4-10-07

<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>570</td>
<td>4</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
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<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>20.4</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
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<td>12.0</td>
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<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.2</td>
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<td>Time (ms)</td>
<td>NA</td>
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<tr>
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<tr>
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</tr>
<tr>
<td>Neck Compression</td>
<td>1380 N</td>
<td>330</td>
</tr>
<tr>
<td>Chest g</td>
<td>55 g</td>
<td>3</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>34 mm</td>
<td>0</td>
</tr>
</tbody>
</table>

Second stage fire time of 150 ms; Injuries calculated on 0 ms to 100 ms
## SECTION 3

**INJURY RESULT SUMMARY FOR FMVSS 208 TESTS**

Test Vehicle: 2006 Dodge Ram  
Test Program: FMVSS 208 Compliance  
NHTSA No.: C60304  
Test Dates: 4/10/07

### 6-Year-Old Low Risk Deployments

#### 6-Year-Old SN 159 Position 1 (Chest On Instrument Panel) 4-10-07

<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>
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<td>0.1</td>
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<tr>
<td>Time (ms)</td>
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<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
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</tr>
<tr>
<td>Peak Nij (Nce)</td>
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<td>0.0</td>
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<tr>
<td>Time (ms)</td>
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<tr>
<td>Peak Nij (Ncf)</td>
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<td>0.0</td>
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<tr>
<td>Time (ms)</td>
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<td>8.8</td>
</tr>
<tr>
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<td>1490 N</td>
<td>196</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>1820 N</td>
<td>13</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>4</td>
</tr>
<tr>
<td>Chest Displacement</td>
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<td>1</td>
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</table>

Second stage fire time of 150 ms; Injuries calculated on 0 ms to 100 ms

#### 6-Year-Old SN 159 Position 2 (Head On Instrument Panel) 4-10-07

<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>2</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>20.2</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>3.5</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>44.8</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>14.6</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>1490 N</td>
<td>197</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>1820 N</td>
<td>496</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>3</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>40 mm</td>
<td>0</td>
</tr>
</tbody>
</table>

Second stage fire time of 150 ms; Injuries calculated on 0 ms to 100 ms
SECTION 3
INJURY RESULT SUMMARY FOR FMVSS 208 TESTS

Test Vehicle: 2006 Dodge Ram  
Test Program: FMVSS 208 Compliance  
NHTSA No.: C60304  
Test Date: 4/26/07  

40 kmph Frontal Crash

Impact Angle: Zero degrees

Belted Dummies: ___Yes   _X  No

Speed Range: ___ 0 to 40 kmph   ___ 32 to 40 kmph
___ 0 to 48 kmph   ___ 0 to 56 kmph

Test Speed: 39.9 kmph  
Test Weight: 2375.0 kg

Driver Dummy: ___5th female   _X  50th male

Passenger Dummy: ___5th female   _X  50th male

50th Percentile Male Frontal Crash Test
Vehicles certified to S5.1.1(b)(1), S5.1.1(b)(2), S5.1.2(a)(2), or S5.1.2(b)

<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>64</td>
<td>267</td>
</tr>
<tr>
<td>Nₜₑ</td>
<td>1.0</td>
<td>0.0</td>
<td>0.4</td>
</tr>
<tr>
<td>Nₜₙ</td>
<td>1.0</td>
<td>0.2</td>
<td>0.1</td>
</tr>
<tr>
<td>Nₑₑ</td>
<td>1.0</td>
<td>0.5</td>
<td>0.4</td>
</tr>
<tr>
<td>Nₑₑ</td>
<td>1.0</td>
<td>0.3</td>
<td>0.1</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>4170 N</td>
<td>1052</td>
<td>1134</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>4000 N</td>
<td>2155</td>
<td>2136</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>19</td>
<td>36</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>63 mm</td>
<td>12</td>
<td>4</td>
</tr>
<tr>
<td>Left Femur</td>
<td>10,000 N</td>
<td>6338 *</td>
<td>5425</td>
</tr>
<tr>
<td>Right Femur</td>
<td>10,000 N</td>
<td>7689</td>
<td>4841</td>
</tr>
</tbody>
</table>

* There was no data after 69 ms. Based on review of the right femur data, the maximum femur load occurred before 69 ms and is reported here.
SECTION 4
DISCUSSION OF TESTS

Test Vehicle: 2006 Dodge Ram  NHTSA No.: C60304
Test Program: FMVSS 208 Compliance  Test Dates: 3/22/06 - 4/26/07

TP208-13, Data Sheet 8, Step 19; The right front belt would not lock at the minimum length.
S7.1.1.5(c)(7) The difference between the measurements recorded under S7.1.1.5(c)(6) and (4) shall not exceed 2 inches. DaimlerChrysler issued a recall (NHTSA recall no. 06V354, DaimlerChrysler recall no. F41) to remedy this situation.

The low risk deployment test performed on 3-28-06 was conducted with a 30.5° seat back angle. This was caused by misunderstanding of where DaimlerChrysler measured their 21° on the seat back frame. The 12-month-old CRABI Dummy had a Head Injury Criteria (HIC 15) value of 400 between 19.9 ms and 24.5 ms time during a Low Risk Deployment test using the Century Encore child restraint system. S.19.4.2(a) The HIC 15 value shall not exceed 390 at any time during the low risk deployment event.

DaimlerChrysler issued a recall (NHTSA recall no. 06V353000, DaimlerChrysler recall no. F40) to remedy this situation. Low risk deployment trials were conducted on March 27, 2007; March 28, 2007; and April 10, 2007 with the F40 recall remedy. All these trials passed the injury measure requirements.

There were no post test photos or real time video of the 12-month-old CRABI Low Risk Deployment test using the Evenflo First Choice child restraint system conducted on 3-28-07. Static screen captures from the high speed video were used as post test photos in the report.

There was no high speed video of the 5th percentile position 2 Low Risk Deployment test conducted on 3-29-07 due to a software malfunction.

There was no valid data after 69 msec on the Driver Left Femur during the frontal impact crash test. Based on review of the right femur data, the maximum femur load occurred before 69 ms.

There was no valid data after 25 msec on the Top of Engine (X) accelerometer during the frontal impact crash test.
SECTION 5
TEST DATA SHEETS

Test Vehicle: 2006 Dodge Ram
Test Program: FMVSS 208 Compliance

NHTSA No.: C60304
Test Dates: 3/22/06 - 4/26/07
DATA SHEET 1
COTR VEHICLE WORK ORDER

Test Vehicle: 2006 Dodge Ram
Test Program: FMVSS 208 Compliance
COTR Signature: Charles R. Case

NHTSA No.: C60304
Test Dates: 3/22/06 - 4/26/07

Test to be performed for this vehicle are checked below:

X 1. Rear Outboard Seating Position Seat Belts (S4.1.2(b)) & (S4.2.4)
X 2. Air Bag Labels (S4.5.1)
X 3. Readiness Indicator (S4.5.2)
X 4. Passenger Air Bag Manual Cut-off Device (S4.5.4)
X 5. Lap Belt Lockability (S7.1.1.5)
X 6. Seat Belt Warning System (S7.3)
X 7. Seat Belt Contact Force (S7.4.4)
X 8. Seat Belt Latch Plate Access (S7.4.4)
X 9. Seat Belt Retraction (S7.4.5)
X 10. Seat Belt Guides and Hardware (S7.4.6)
X 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
- Century Assura 4553
- Century Avanta SE 41530
- Century Smart Fit 4543
- Cosco Arriva 02727
- Cosco Opus 35 02603
- Evenflo Discovery Adjust Right 212
- Evenflo First Choice 204
- Evenflo On My Way Position Right V 282
- Graco Infant 8457

Section C
- Britax Roundabout 161
- Century Encore 4612
- Century STE 1000 4416
- Cosco Olympian 02803
- Cosco Touriva 02519
- Evenflo Horizon V 425
- Evenflo Medallion 254

12. Suppression tests with newborn infant (Part 572, Subpart K) using the following indicated child restraints.

Section A
- Cosco Dream Ride 02-719

13. Suppression tests with 3-year-old dummy (Part 572, Subpart P) using the following indicated child restraints where a child restraint is required.
14. Suppression tests with a representative 3-year-old child using the following indicated child restraints where a child restraint is required. (Appendix H, Data Sheet 16H and 17H)

Section C
- Britax Roundabout 161
- Century Encore 4612
- Century STE 1000 4416
- Cosco Olympian 02803
- Cosco Touriva 02519
- Evenflo Horizon V 425
- Evenflo Medallion 254

Section D
- Britax Roadster 9004
- Century Next Step 4920
- Cosco High Back Booster 02-442
- Evenflo Right Fit 245

15. Suppression tests with a 3-year-old dummy (Part 572, Subpart P) 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 with back not against seat back (S22.2.2.3)
- Sitting on seat edge, spine vertical, hands by the child’s side (S22.2.2.4)
- Standing on seat, facing forward (S22.2.2.5)
- Kneeling on seat facing forward (S22.2.2.6)
- Kneeling on seat facing rearward (S22.2.2.7)
- Lying on seat (S22.2.2.8)

16. Suppression tests with a representative 3-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 with back not against seat back (S22.2.2.3)
- Sitting on seat edge, spine vertical, hands by the child’s side (S22.2.2.4)
- Standing on seat, facing forward (S22.2.2.5)
- Kneeling on seat facing forward (S22.2.2.6)
- Kneeling on seat facing rearward (S22.2.2.7)
- Lying on seat (S22.2.2.8)

17. Suppression tests with a 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.

Section D

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

Section B

<table>
<thead>
<tr>
<th>Britax Handle with Care 191</th>
<th>Full Rearward</th>
<th>Mid Position</th>
<th>Full Forward</th>
</tr>
</thead>
<tbody>
<tr>
<td>Century Assura 4553</td>
<td>Full Rearward</td>
<td>Mid Position</td>
<td>Full Forward</td>
</tr>
<tr>
<td>Century Avanta SE 41530</td>
<td>Full Rearward</td>
<td>Mid Position</td>
<td>Full Forward</td>
</tr>
<tr>
<td>Century Smart Fit 4543</td>
<td>Full Rearward</td>
<td>Mid Position</td>
<td>Full Forward</td>
</tr>
<tr>
<td>Cosco Arriva 02727</td>
<td>Full Rearward</td>
<td>Mid Position</td>
<td>Full Forward</td>
</tr>
<tr>
<td>Cosco Opus 35 02603</td>
<td>Full Rearward</td>
<td>Mid Position</td>
<td>Full Forward</td>
</tr>
<tr>
<td>Evenflo Discovery Adjust Right 212</td>
<td>Full Rearward</td>
<td>Mid Position</td>
<td>Full Forward</td>
</tr>
<tr>
<td>Evenflo First Choice 204</td>
<td>Full Rearward</td>
<td>Mid Position</td>
<td>Full Forward</td>
</tr>
<tr>
<td>Evenflo On My Way Position Right V 282</td>
<td>Full Rearward</td>
<td>Mid Position</td>
<td>Full Forward</td>
</tr>
<tr>
<td>Graco Infant 8457</td>
<td>Full Rearward</td>
<td>Mid Position</td>
<td>Full Forward</td>
</tr>
</tbody>
</table>

Section C

<table>
<thead>
<tr>
<th>Britax Roundabout 161</th>
<th>Full Rearward</th>
<th>Mid Position</th>
<th>Full Forward</th>
</tr>
</thead>
<tbody>
<tr>
<td>Century Encore 4612</td>
<td>Full Rearward</td>
<td>Mid Position</td>
<td>Full Forward</td>
</tr>
<tr>
<td>Century STE 1000 4416</td>
<td>Full Rearward</td>
<td>Mid Position</td>
<td>Full Forward</td>
</tr>
<tr>
<td>Cosco Olympian 02803</td>
<td>Full Rearward</td>
<td>Mid Position</td>
<td>Full Forward</td>
</tr>
<tr>
<td>Cosco Touriva 02519</td>
<td>Full Rearward</td>
<td>Mid Position</td>
<td>Full Forward</td>
</tr>
<tr>
<td>Evenflo Horizon V 425</td>
<td>Full Rearward</td>
<td>Mid Position</td>
<td>Full Forward</td>
</tr>
<tr>
<td>Evenflo Medallion 254</td>
<td>Full Rearward</td>
<td>Mid Position</td>
<td>Full Forward</td>
</tr>
</tbody>
</table>
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: 39.9 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) (S5.1.2(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 50th male dummy driver and 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 Frontal Indicant Test
DATA SHEET 2
REPORT OF VEHICLE CONDITION

Test Vehicle: 2006 Dodge Ram 1500
Test Program: FMVSS 208 Compliance
NHTSA No.: C60304
Test Dates: 3/22/06 - 4/26/07

CONTRACT NO.: DTNH22-03-D-11002 Date: 5/2/07
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: 2006 Dodge Ram 1500
MANUFACTURE DATE: 11/05
NHTSA NO. C60304 GVWR: 2733 kg (6025 lbs)
BODY COLOR: Silver GAWR (Fr): 1679 kg (3700 lbs)
VIN: 1D7HA16K56J146806 GAWR (Rr): 1770 kg (3900 lbs)

ODOMETER READINGS: ARRIVAL (miles): 70 DATE: 2/8/06
COMPLETION (miles): 75 DATE: 4/26/07
PURCHASE PRICE: ($) 18,305
DEALER’S NAME: Frank Boucher Chrysler Dodge Jeep; 4001 Milton Ave.; Janesville WI 53546

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: 2006 Dodge Ram
Test Program: FMVSS 208 Compliance
NHTSA No.: C60304
Test Dates: 3/22/06 - 4/26/07
REPORT OF VEHICLE CONDITION AT THE COMPLETION OF TESTING

LIST OF FMVSS TESTS PERFORMED BY THIS LAB: FMVSS 208, 212, 219, 301

VEHICLE: 2006 Dodge Ram
NHTSA NO. C60304

REMARKS:

Equipment that is no longer on the test vehicle as noted on previous page:
Spare tire, jack and tools, rear seat bottom, and trunk interior

Explanation for equipment removal:
Nothing removed to meet target weight.

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: 5/2/2007
APPROVED BY: David Winkelbauer
DATE: 5/2/2007

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

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:
### DATA SHEET 3

**CERTIFICATION LABEL AND TIRE PLACARD INFORMATION**

<table>
<thead>
<tr>
<th>Test Vehicle:</th>
<th>2006 Dodge Ram</th>
<th>NHTSA No.:</th>
<th>C60304</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
<td>Test Date:</td>
<td>4/26/07</td>
</tr>
<tr>
<td>Test Technician:</td>
<td>Jamie Aide</td>
<td>Test Date:</td>
<td>4/26/07</td>
</tr>
</tbody>
</table>

#### Certification Label

<table>
<thead>
<tr>
<th>Manufacturer:</th>
<th>DaimlerChrysler Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date of Manufacture:</td>
<td>11/05</td>
</tr>
<tr>
<td>VIN:</td>
<td>1D7HA16K56J146806</td>
</tr>
<tr>
<td>Vehicle Certified As (Pass. Car/MPV/Truck/Bus):</td>
<td>Truck</td>
</tr>
<tr>
<td>Front Axle GVWR:</td>
<td>1679 kg (3700 lbs)</td>
</tr>
<tr>
<td>Rear Axle GVWR:</td>
<td>1770 kg (3900 lbs)</td>
</tr>
<tr>
<td>Total GVWR:</td>
<td>2733 kg (6025 lbs)</td>
</tr>
</tbody>
</table>

#### Tire Placard

<table>
<thead>
<tr>
<th>Not applicable, vehicle is not a passenger car and does not have a tire placard.</th>
<th>YES (Truck)</th>
</tr>
</thead>
<tbody>
<tr>
<td>This is not a passenger car, but all or part of this information is still contained on a vehicle label and is reported here.</td>
<td>YES (Truck)</td>
</tr>
<tr>
<td>Vehicle Capacity Weight:</td>
<td>656 kg (1448 lbs)</td>
</tr>
<tr>
<td>Designated Seating Capacity Front:</td>
<td>3</td>
</tr>
<tr>
<td>Designated Seating Capacity Rear:</td>
<td>0</td>
</tr>
<tr>
<td>Total Designated Seating Capacity:</td>
<td>3</td>
</tr>
<tr>
<td>Recommended Cold Tire Inflation Pressure Front:</td>
<td>240 kpa (35 psi)</td>
</tr>
<tr>
<td>Recommended Cold Tire Inflation Pressure Rear:</td>
<td>240 kpa (35 psi)</td>
</tr>
<tr>
<td>Recommended Tire Size:</td>
<td>P245/70R17</td>
</tr>
</tbody>
</table>

**Signature:** Jamie Aide  
**Date:** 4/26/07
DATA SHEET 4
REAR OUTBOARD SEATING POSITION SEAT BELTS

<table>
<thead>
<tr>
<th>Test Vehicle:</th>
<th>2006 Dodge Ram</th>
<th>NHTSA No.:</th>
<th>C60304</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
<td>Test Date:</td>
<td>3/22/06</td>
</tr>
<tr>
<td>Test Technician:</td>
<td>Wayne Dahlke</td>
<td></td>
<td></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></td>
<td>X</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: N/A; There are no rear seating positions.

Signature: Wayne Dahlke

Date: 3/22/06
DATA SHEET 5
AIR BAG LABELS (S4.5.1)

Test Vehicle: 2006 Dodge Ram  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke  
NHTSA No.: C60304  
Test Date: 3/22/06

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? (3/19/01 legal interpretation to Todd Mitchell)
      — 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
         — No - Fail
2.3 Include a statement that the air bag is a supplemental 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
- 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 3.2 and skip 3.1

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 the label or sun visor? (S4.5.1(b)(1)) (3/19/01 legal interpretation to Todd Mitchell)
- 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))

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

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))

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

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

Driver Side, Yes - Pass
Driver Side, No - Fail
Passenger Side, Yes - Pass
Passenger Side, No - Fail
3.1.5 Is the message area at least 30 cm²? (S4.5.1(b)(1)(ii))
The message area consists of the total label area minus the yellow heading area and the pictogram. The pictogram is enclosed on the left side and bottom by the edge of the label and on the top by line that borders the yellow heading area. The right side of the pictogram is defined by a vertical line midway between the rightmost edge of the pictogram and the left most edge of the text, including any bullets. (See 5/6/03 interpretation to Gerald Plante on behalf of Subaru)

Driver Side: Length ______, Width ________
Passenger Side: Length ________, Width ________
Actual message area __________ cm²

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

3.1.7 Is the pictogram at least 30 mm in diameter? (S4.5.1(b)(2)(iii))

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

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)(3)) (3/19/01 legal interpretation to Todd Mitchell)
3.2.2 Does the label conform in content to the label shown in 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))

![Figure 11. San Vezo Label Visible when Yoke is in Down Position.](image)

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

3.2.3 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

3.2.4 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

3.2.5 Is the message area at least 30 cm²? (S4.5.1(b)(3)(ii)) The message area consists of the total label area minus the yellow heading area and the pictogram. The pictogram is enclosed on the left side and bottom by the edge of the label. The top edge of the pictogram area is defined by a horizontal line midway between the uppermost edge of the pictogram and the lowermost edge of the text. The right side of the pictogram is defined by a vertical line midway between the rightmost edge of the pictogram and the left most edge of the text, including any bullets. (See 5/6/03 interpretation to Gerald Plante on behalf of Subaru)

- Driver Side: Length 7 cm, Width 5 cm
  - Actual message area 35 cm²

- Passenger Side: Length 7 cm, Width 5 cm
  - Actual message area 35 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)(3)(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)(3)(iii))
- Driver Side: Length 45 mm
- Passenger Side: Length 45 mm
- Driver Side, Yes - Pass
- Driver Side, No - Fail
- Passenger Side, Yes - Pass
- Passenger Side, No - Fail

3.3 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

3.4 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

3.5 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 3.5.1
  X No, go to 4 (skipping 3.5.1 through 3.5.3)

3.5.1 Are both the rollover-warning label and the air bag warning label surrounded by a continuous solid-lined border?
  _Yes, go to 3.5.2 and skip 3.5.3
  _No, go to 3.5.3 and skip 3.5.2

3.5.2 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
3.5.3 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))

<table>
<thead>
<tr>
<th>Actual Distance</th>
<th>Pass</th>
<th>Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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?

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

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)) (3/19/01 legal interpretation to Todd Mitchell)

<table>
<thead>
<tr>
<th>Side</th>
<th>permanent affixed</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver Side</td>
<td>Yes</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td>No</td>
<td>Fail</td>
</tr>
<tr>
<td>Passenger Side</td>
<td>Yes</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td>No</td>
<td>Fail</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Side</th>
<th>Visible</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver Side</td>
<td>Yes</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td>No</td>
<td>Fail</td>
</tr>
<tr>
<td>Passenger Side</td>
<td>Yes</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td>No</td>
<td>Fail</td>
</tr>
</tbody>
</table>
4.4 Does the label conform in content to the label shown in Figure 6C? (S4.5.1(c))

![Image of label with diagram]

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

4.5 Is the message area black with yellow text? (S4.5.1(c)(1))

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

4.6 Is the message area at least 20 cm²? (S4.5.1(c)(1)) The message area consists of the black part of the label.

   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

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 ___
Passenger Side Diameter ___

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(e)(3))

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)(3))

Yes - Pass
No - Fail

5.1.2 Is the label clearly visible from all front seating positions? (S4.5.1(e)(3))

Yes - Pass
No - Fail

5.1.3 Does the label conform in content to the label shown in Figure 12? (S4.5.1(e)(3))
Vehicles without back seats may omit the statement: “The back seat is the safest place for children.” Vehicles without back seats or too small to accommodate a rear-facing child restraint consistent with S4.5.4.1 as determined in DATA SHEET 7 may omit the statement “Never put a rear-facing child seat in the front.” (S4.5.1(e)(3)(iii))

Yes - Pass
No - Fail

5.1.4 Is the heading area yellow with black text? (S4.5.1(e)(3)(i))

Yes - Pass
No - Fail
5.1.5 Is the message white with black text? (S4.5.1(e)(3)(ii))
- Yes - Pass
- No - Fail

5.1.6 Is the message area at least 30 cm²? (S4.5.1(e)(3)(ii)) The message area consists of the total label area minus the yellow heading area. (See 5/6/03 interpretation to Gerald Plante on behalf of Subaru)
- 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)) Vehicles without back seats may omit the statement: "The back seat is the safest place for children." (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)) The message area consists of the total label area minus the yellow heading area. (See 5/6/03 interpretation to Gerald Plante on behalf of Subaru)
Length_______, Width_______
Actual message area ________ cm²
☐ Yes - Pass
☐ No - Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________
Date: 3/22/06
DATA SHEET 6
FMVSS 208 READINESS INDICATOR (S4.5.2)

Test Vehicle: 2006 Dodge Ram
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke
NHTSA No.: C60304
Test Date: 3/22/06

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
   X No

2. Describe the location of the readiness indicator: Upper Center

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

5. Does the vehicle have an on-off switch for the passenger air bag?
   X 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?
   X Yes - Pass
   □ No - Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________
Date: 3/22/06
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
   - No, this sheet is complete

2. Does the vehicle have any forward-facing rear designated seating positions? (S4.5.4.1(a))
   - Yes, go to 3
   - No, go to 4

3. Verification there is room for a child restraint in the rear seat behind the driver’s seat. (S4.5.4.1(b)).
   3.1 Using all the controls that affect the fore-aft movement of the seat, move the seat to the rearmost position. Mark this position.
   - N/A, the seat does not have fore-aft adjustment
   3.2 Using all the controls that affect the fore-aft movement of the seat, move the seat to the foremost position. Mark this position.
   - N/A, the seat does not have fore-aft adjustment
   3.3 Move the seat to the middle of the foremost and rearmost positions. (S8.1.2)
   - N/A, the seat does not have a fore-aft adjustment
   3.4 If the driver’s seat height is adjustable, use all the controls that affect height to put it in the lowest position while maintaining the middle fore-aft position. (S8.1.2)
   - N/A, No seat height adjustment
   3.5 Position the driver’s seat 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
   3.6 The driver’s 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 driver’s seat back angle ________________
   - Tested driver’s seat back angle ________________

4. Is the driver seat a bucket seat?
   - Yes, go to 3.7.1 and skip 3.7.2.
   - No, go to 3.7.2 and skip 3.7.1.

5. Bucket seats:
   3.7.1 Locate and mark a vertical Plane B through the longitudinal centerline of the driver’s seat cushion. The longitudinal centerline of a bucket seat cushion is determined at SgRP. (S16.3.1.10) (S4.5.4.1(b)(1))
3.7.1.2 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.

___ mm distance
- less than 720 mm - Pass
- more than 720 mm - FAIL
Go to 4

3.2 Bench seats (including split bench seats):

3.7.2.1 Locate and mark a vertical Plane B through the center of the steering wheel parallel to the vehicle longitudinal centerline. (S4.5.4.1(b)(2))

3.7.2.2 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.

___ mm distance
- less than 720 mm - Pass
- more than 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
   - No - Fail

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” or “PASS AIR BAG OFF” (S4.5.4.3(b)) on the telltale?
   - Yes - Pass, go to 7.3
   - No - go to 7.2.2

7.2.2 Are the words “PASSENGER AIR BAG OFF” or “PASS AIR BAG OFF” (S4.5.4.3(b)) within 25 mm of the telltale?
   - Measurement from the edge of the telltale light (mm): 3 mm
   - Yes - Pass
   - No - Fail

7.3 Does the telltale remain illuminated while the air bag is turned off? (S4.5.4.3c)) (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))

- Yes - Pass
- No - Fail

8.3 Does the owner’s manual contain a warning about the safety consequences of using the on-off switch at other times?

- Yes - Pass
- No - Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: [signature]

Date: 3/22/06
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: 2006 Dodge Ram NHTSA No.: C60304
Test Program: FMVSS 208 Compliance Test Date: 3/22/06
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))

DESIGNATED SEATING POSITION: Front Passenger

N/A - no retractor is at this position
N/A - the retractor is an automatic locking retractor ONLY

1. Record test fore-aft seat position: FULL REAR
   (S7.1.1.5(c)(1)) (Any position is acceptable)

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))
   Yes - Pass
   No - Fail

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))
   Yes - Pass
   No - Fail

4. Place any adjustable seat belt anchorage in the lowest adjustment position.

N/A The anchorage is not adjustable.

5. Buckle the seat belt. (S7.1.1.5(c)(1))

6. Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2))

7. 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))

8. 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 8.1
   No, go to 9.

8.1 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))
   Yes - Pass
   No - Fail
9. 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))

10. 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): 74 ½ inches

11. Readjust the belt system so that the webbing between points A and B is at 1/2 the maximum length of the webbing. (S7.1.1.5(c)(3))

12. 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): 9.7°

13. 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): 26 ½ inches

14. 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)): 30lbs/sec
    Measured distance between A and B (inches) (S7.1.1.5(c)(6)): 27 ¼ inches

15. Let the seat belt webbing retract to its minimum length with the seat belt still buckled

16. 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) Failed; minimum-won't lock

17. 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 Failed; minimum-won't lock
18. 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 _____________ (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5))
   Measured distance between A and B _____________ (S7.1.1.5(c)(6))

   Failed; minimum-won’t lock

19. Subtract the measurement in 13 from the measurement in 14 and the measurement in 17 from the measurement in 18. Is the difference 2 inches or less for both?

   (S7.1.1.5(c)(7))
   14-13 = 27 ¼ - 26 ½ = ¾ inch
   18-17 = N/A  Belt will not lock at its minimum length. Belt has to be pulled out as measured above.

   X Yes - Pass (½ MAXIMUM LENGTH)
   X No - Fail (MINIMUM LENGTH)

20. Subtract the measurement in 14 from the measurement in 10 and the measurement in 18 from the measurement in 10. Is the difference 3 inches or more for both?

   (S7.1.1.5(c)(8))
   10-14 = 74 ½ - 27 ¼ = 47 ¼ inches
   10-18 = N/A  Belt will not lock at its minimum length. Belt has to be pulled out as measured above.

   X Yes - Pass (½ MAXIMUM LENGTH)
   X No - Fail (MINIMUM LENGTH)

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________
Date: 3/22/06

Figure 5. - Webbing Tension Pull Device
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: 2006 Dodge Ram
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

NHTSA No.: C60304
Test Date: 3/22/06

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 Front Passenger

1. Record test fore-aft seat position:
   (S7.1.1.5(c)(1)) (Any position is acceptable) FIXED

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))
   X Yes - Pass
   No - Fail

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))
   X Yes - Pass
   No - Fail

4. Place any adjustable seat belt anchorage in the lowest adjustment position.

5. N/A The anchorage is not adjustable.

6. Buckle the seat belt. (S7.1.1.5(c)(1))

7. Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2))

8. 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))

8.1 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))
   X Yes - Pass
   No - Fail
9. 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))

10. 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): 67 ½ inches

11. Readjust the belt system so that the webbing between points A and B is at 1/2 the maximum length of the webbing. (S7.1.1.5(c)(3))

12. 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): 12.3°

13. 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): 23 inches

14. 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)): 25lbs/sec

   Measured distance between A and B (inches) (S7.1.1.5(c)(6)): 23 ½ inches

15. Let the seat belt webbing retract to its minimum length with the seat belt still buckled

16. 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 13° (spec. 5 - 15 degrees)

17. 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 9 ¼ inches

18. 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 25lbs/sec (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5))

   Measured distance between A and B 10 inches (S7.1.1.5(c)(6))
19. Subtract the measurement in 13 from the measurement in 14 and the measurement in 17 from the measurement in 18. Is the difference 2 inches or less for both?
(S7.1.1.5(c)(7))
14-13 = 23 ½ - 23 = ½ inch
18-17 = 10 - 9 ¼ = ¾ inch
Yes - Pass
No - Fail

20. Subtract the measurement in 14 from the measurement in 10 and the measurement in 18 from the measurement in 10. Is the difference 3 inches or more for both?
(S7.1.1.5(c)(8))
10-14 = 67 ½ - 23 ½ = 44 inches
10-18 = 67 ½ - 10 = 57 ½ inches
Yes - Pass
No - Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________
Date:  3/22/06
DATA SHEET 9
FMVSS 208 SEAT BELT WARNING SYSTEM CHECK (S7.3)

Test Vehicle: 2006 Dodge Ram
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke
NHTSA No.: C60304
Test Date: 3/22/06

- 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
- 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 warning light beginning with key “on” or “start” is
  Seconds: 7
- 13. Complete the following table with the data from 4, 8, and 12 to determine which option is
  used.

<table>
<thead>
<tr>
<th>Warning light specification</th>
<th>Audible signal specification*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item 8: Stays On</td>
<td>Item 4: 7 S7.3 (a)(1) Belt stowed &amp; key on or start</td>
</tr>
<tr>
<td>60 seconds minimum</td>
<td>4 to 8 seconds</td>
</tr>
<tr>
<td>Item 12: 7 S7.3 (a)(2) Belt latched &amp; key on or start</td>
<td></td>
</tr>
<tr>
<td>4 to 8 seconds</td>
<td></td>
</tr>
<tr>
<td>Item 8: Stays On S7.3 (a)(2) Belt stowed &amp; key on or start</td>
<td></td>
</tr>
<tr>
<td>4 to 8 seconds</td>
<td>Item 4: 7 4 to 8 seconds</td>
</tr>
</tbody>
</table>

* 49 USCS @ 30124 does NOT allow an audible signal to operate for more than 8 seconds.
A voluntary audible signal after the 4 to 8 second required signal may be provided. It must be differentiated from the required signal (5/25/2001 legal interpretation to Longacre and Associates).
14. The seat belt warning system meets the requirements of (manufacturers may comply with either section)
   - S7.3 (a)(1)
   - S7.3 (a)(2)
   - **FAIL** - does not meet the requirements of either option

15. Note wording of visual warning: (S7.3(a)(1) and S7.3(a)(2))
   - Fasten seat belts
   - Fasten belts
   - **X** Symbol 101 - ![Symbol](image)
   - **FAIL** - does not use any of the above wording or symbol

**REMARKS:**

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 3/22/06
DATA SHEET 10
BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2006 Dodge Ram  
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: 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. Is the fore-aft position of the seat adjustable?
   - [X] No- go to 5
   - [X] Yes - Put the seat in the mid fore-aft and full down height position determined in Data Sheet 14.2

5. Is the seat back angle adjustable?
   - [X] No- go to 6
   - [X] Yes-Use the seat back angle determined in Data Sheet 14.2

6. Position the test dummies according to dummy position placement instructions in Appendix F. Complete the Appendix F check sheets, but include them in the test report ONLY if there is a test failure.

7. Fasten the seat belt latch.

8. 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.

9. 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):
   - [X] 0.0 to 0.7 pounds - Pass 0.4 lbs.
   - [ ] Greater than 0.7 pounds - Fail

Test Vehicle: 2006 Dodge Ram  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke

NHTSA No. C60304  
Test Date: 3/22/06
REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________
Date: 3/22/06
DATA SHEET 10
BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2006 Dodge Ram  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke  
NHTSA No.: C60304  
Test Date: 3/22/06

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 Front 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. Is the fore-aft position of the seat adjustable?  
   - No- go to 5  
   - Yes - Put the seat in the mid fore-aft and full down height position determined in Data Sheet 14.2

5. Is the seat back angle adjustable?  
   - No- go to 6  
   - Yes - Use the seat back angle determined in Data Sheet 14.2

6. Position the test dummies according to dummy position placement instructions in Appendix F. Complete the Appendix F check sheets, but include them in the test report ONLY if there is a test failure.

7. Fasten the seat belt latch.

8. 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.

9. 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):**  
   - 0.0 to 0.7 pounds - Pass 0.5 lbs.  
   - Greater than 0.7 pounds - Fail
REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 3/22/06
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: Right Front Passenger

1. Does the vehicle incorporate a webbing tension-relieving device?
   X 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. Is the fore-aft position of the seat adjustable?
   X No- go to 5
   X Yes - Put the seat in the mid fore-aft and full down height position determined in Data
   Sheet 14.2

5. Is the seat back angle adjustable?
   X No- go to 6
   X Yes-Use the seat back angle determined in Data Sheet 14.2

6. Position the test dummies according to dummy position placement instructions in
   Appendix F. Complete the Appendix F check sheets, but include them in the test
   report ONLY if there is a test failure.

7. Fasten the seat belt latch.

8. 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.

9. 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):
   X 0.0 to 0.7 pounds - Pass  0.5 lbs.
   Greater than 0.7 pounds - Fail

Test Vehicle: 2006 Dodge Ram          NHTSA No.: C60304
Test Program: FMVSS 208 Compliance   Test Date: 3/22/06
Test Technician: Wayne Dahlke
REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 3/22/06
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. **Yes - Pass**
   - Put the seat in the forwardmost fore-aft and full down height position determined in Data Sheet 14.2. (S10.7)
2. **Yes - Pass**
   - Put the seat back angle in the position determined in Data Sheet 14.2.
3. **Yes - Pass**
   - Position the test dummy using the procedures in Appendix F. (Some modifications to the positioning procedure may need to be made because the seat is in its forward most position. Note on the Appendix F positioning check sheet any deviations necessary to position the Part 572, Subpart E dummy.) Complete the Appendix F check sheets, but include them in the test report ONLY if there is a test failure.
4. **Yes - Pass**
   - Position the adjustable seat belt anchorage in the manufacturer’s nominal design position for a 50th percentile adult male occupant.
5. **Yes - Pass**
   - Attach the inboard reach string to the base of the head following the instructions on Figure 3.
6. **Yes - Pass**
   - Attach the outboard reach string to the torso sheath following the instructions on Figure 3.
7. **Yes - Pass**
   - Place the latch plate in the stowed position.
8. **Yes - Pass**
   - 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?
9. **Yes - Pass**
   - Extend outboard reach string in front of the dummy and then backward and outboard to the latch plate to generate arcs of the reach envelope of the test dummy’s arms. Is the latch plate within the reach envelope?
10. **Yes - Pass**
    - Is the latch plate within the inboard (item 10) or outboard (item 11) reach envelope?
11. **Yes - Pass**
    - 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?
REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________

Date: 3/22/06
DATA SHEET 11
LATCH PLATE ACCESS (S7.4.4)

Test Vehicle: 2006 Dodge Ram  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke  
NHTSA No.: C60304  
Test Date: 3/22/06

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. Put the seat in the forwardmost fore-aft and full down height position determined in Data Sheet 14.2. (S10.7)
2. Put the seat back angle in the position determined in Data Sheet 14.2.
3. Position the test dummy using the procedures in Appendix F. (Some modifications to the positioning procedure may need to be made because the seat is in its forward most position. Note on the Appendix F positioning check sheet any deviations necessary to position the Part 572, Subpart E dummy.) Complete the Appendix F check sheets, but include them in the test report ONLY if there is a test failure.
4. Position the adjustable seat belt anchorage in the manufacturer’s nominal design position for a 50th percentile adult male occupant.
5. Attach the inboard reach string to the base of the head following the instructions on Figure 3.
6. Attach the outboard reach string to the torso sheath following the instructions on Figure 3.
7. Place the latch plate in the stowed position.
8. 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
9. Extend outboard reach string in front of the dummy and then backward and outboard to the latch plate to generate arcs of the reach envelope of the test dummy’s arms. Is the latch plate within the reach envelope?
   - Yes - Pass
   - No
10. Is the latch plate within the inboard (item 10) or outboard (item 11) reach envelope?
    - Yes - Pass
    - No - Fail
11. 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

Test Vehicle: 2006 Dodge Ram  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke  
NHTSA No.: C60304  
Test Date: 3/22/06
REMARKS:

I certify that I have read and performed each instruction.

Signature: Wayne Zabella

Date: 3/22/06
### DATA SHEET 12
#### SEAT BELT RETRACTION (S7.4.5)

**Test Vehicle:** 2006 Dodge Ram  
**Test Program:** FMVSS 208 Compliance  
**Test Technician:** Wayne Dahlke  
**NHTSA No.:** C60304  
**Test Date:** 3/22/06

Test all front outboard 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

<table>
<thead>
<tr>
<th>No.</th>
<th>Instruction</th>
<th>Yes/No/Blank</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Is the vehicle a passenger car or walk-in van-type vehicle?</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Yes, this form is complete</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Put the seat in the mid fore-aft and full down height position determined in Data Sheet 14.2. (S8.1.2)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Put the seat back angle in the position determined in Data Sheet 14.2. (8.1.3)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Position the Part 572 Subpart E test dummy according to dummy position placement instructions in Appendix F. Complete the Appendix F check sheets, but include them in the test report ONLY if there is a test failure.</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Fasten the seat belt around the dummy.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Remove all slack from the lap belt portion. (S10.9)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Pull the upper torso webbing out of the retractor and allow it to retract; repeat this four times. (S10.9)</td>
<td>X</td>
<td>N/A, the seat does not have a fore-aft adjustment</td>
</tr>
<tr>
<td>8.</td>
<td>Apply a 2 to 4 pound tension load to the lap belt. (S10.9)</td>
<td></td>
<td>Pound load applied: 4</td>
</tr>
<tr>
<td>9.</td>
<td>Is the belt system equipped with a tension relieving device?</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Yes, continue</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>No, go to 12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>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)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td>Check the statement that applies to this test vehicle:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.1</td>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Yes - Pass go to 12</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>No - go to 11.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.2</td>
<td>The torso and lap belt webbing of the seat belt system automatically retracts when the seat belt latch plate is released.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Yes - Pass go to 12</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>No - go to 11.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.3</td>
<td>Neither 11.1 nor 11.2 apply.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fail</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
12. 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

13. 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?
   - N/A - Not an open body vehicle
   - Yes - Pass
   - No - Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 3/22/06
DATA SHEET 12
SEAT BELT RETRACTION (S7.4.5)

Test Vehicle: 2006 Dodge Ram
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke
Test Date: 3/22/06

Test all front outboard 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 vehicle a passenger car or walk-in van-type vehicle?
   X Yes, this form is complete
   X No

2. Put the seat in the mid fore-aft and full down height position determined in Data Sheet 14.2. (S8.1.2)

3. Put the seat back angle in the position determined in Data Sheet 14.2. (8.1.3)

4. Position the Part 572 Subpart E test dummy according to dummy position placement instructions in Appendix F. Complete the Appendix F check sheets, but include them in the test report ONLY if there is a test failure.

5. Fasten the seat belt around the dummy.

6. Remove all slack from the lap belt portion. (S10.9)
   X N/A, the seat does not have a fore-aft adjustment

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

8. Apply a 2 to 4 pound tension load to the lap belt. (S10.9)
   Pound load applied: 4

9. Is the belt system equipped with a tension relieving device?
   X Yes, continue
   X No, go to 12

10. 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)

11. Check the statement that applies to this test vehicle:
   11.1 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.
       X Yes - Pass go to 12
       X No - go to 11.2

   11.2 The torso and lap belt webbing of the seat belt system automatically retracts when the seat belt latch plate is released.
       X Yes - Pass go to 12
       X No - go to 11.3

   11.3 Neither 11.1 nor 11.2 apply.
       Fail
12. With the webbing and hardware in the stowed position are the webbing and hardware prevented from being pinched when the door is closed?
   X Yes - Pass
   [ ] No - Fail

13. 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 - Not an open body vehicle
   [ ] Yes - Pass
   [ ] No - Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 3/22/06
DATA SHEET 13
SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2006 Dodge Ram  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke  
NHTSA No.: C60304  
Test Date: 3/22/06

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

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1.</strong></td>
<td>Is the seat cushion movable so that the seat back serves a function other than seating? (S7.4.6.1 (b))</td>
</tr>
<tr>
<td>X</td>
<td>Yes, this form is complete</td>
</tr>
<tr>
<td>X</td>
<td>No, go to 2</td>
</tr>
<tr>
<td><strong>2.</strong></td>
<td>Is the seat removable? (S7.4.6.1(b))</td>
</tr>
<tr>
<td>X</td>
<td>Yes, this form is complete</td>
</tr>
<tr>
<td>X</td>
<td>No, go to 3</td>
</tr>
<tr>
<td><strong>3.</strong></td>
<td>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))</td>
</tr>
<tr>
<td>X</td>
<td>Yes, this form is complete</td>
</tr>
<tr>
<td>X</td>
<td>No, go to 4</td>
</tr>
<tr>
<td><strong>4.</strong></td>
<td>Is the webbing designed to pass through the seat cushion or between the seat cushion and seat back? (S7.4.6.1(a))</td>
</tr>
<tr>
<td>X</td>
<td>Yes, go to 5</td>
</tr>
<tr>
<td>X</td>
<td>No, this form is complete</td>
</tr>
<tr>
<td><strong>5.</strong></td>
<td>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))</td>
</tr>
<tr>
<td>Yes - Pass</td>
<td></td>
</tr>
<tr>
<td>No - Fail</td>
<td></td>
</tr>
<tr>
<td>Identify the part(s) on top or above the seat.</td>
<td></td>
</tr>
<tr>
<td>Seat belt latch plate</td>
<td></td>
</tr>
<tr>
<td>Buckle</td>
<td></td>
</tr>
<tr>
<td>Seat belt webbing</td>
<td></td>
</tr>
<tr>
<td><strong>6.</strong></td>
<td>Are the remaining two seat belt parts accessible under normal conditions?</td>
</tr>
<tr>
<td>Yes - Pass</td>
<td></td>
</tr>
<tr>
<td>No - Fail</td>
<td></td>
</tr>
<tr>
<td><strong>7.</strong></td>
<td>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)</td>
</tr>
<tr>
<td>Yes - Pass</td>
<td></td>
</tr>
<tr>
<td>No - Fail</td>
<td></td>
</tr>
</tbody>
</table>
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: 3/22/06
DATA SHEET 13
SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2006 Dodge Ram
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke
NHTSA No.: C60304
Test Date: 3/22/06

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 Front 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: __________________________

Date: 3/22/06
### DATA SHEET 13

#### SEAT BELT GUIDES AND HARDWARE (S7.4.6)

- **Test Vehicle:** 2006 Dodge Ram
- **NHTSA No.:** C60304
- **Test Program:** FMVSS 208 Compliance
- **Test Date:** 3/22/06
- **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.

<table>
<thead>
<tr>
<th>DESIGNATED SEATING POSITION:</th>
<th>Right Front Passenger</th>
</tr>
</thead>
</table>

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))
   - [ ] 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
   - [ ] 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
   - [X] 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
   - [X] 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
   - [X] 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: 3/22/06
DATA SHEET 14
MARKING OF REFERENCE POINTS FOR VARIOUS TEST POSITIONS AND POINTS

Test Vehicle: 2006 Dodge Ram  
Test Program: FMVSS 208 Compliance  
Test Technician: Brian Roach  
NHTSA No.: C60304  
Test Date: 3/28/06

DATA SHEET 14.1
MARKING OF REFERENCE POINTS FOR 5th FEMALE

X Driver Seat  __Passenger Seat

1. Seat Position

X 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, S20.1.9.1, S20.4.1, S22.1.7.1)

X N/A - No lumbar adjustment

X 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, S20.1.9.2, S20.4.1, S22.1.7.1, S22.4.2.1, S22.4.3.1, S24.4.2.1, S26.2.3, S26.3.1)

X N/A - No additional support adjustment

X 1.3 Position an adjustable leg support system in its rearmost position. (8/27/04 interpretation to Toyota)

X N/A - No adjustable leg support system

X 1.4 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. (S16.3.1.12)

X 1.5 Draw a line (seat cushion reference line) through the seat cushion reference point. (S16.3.1.13)

X 1.6 Use only the controls that primarily move the seat in the fore-aft direction to move the seat cushion reference point to the rearmost position. (S16.2.10.3.1, S22.1.7.3)

X 1.7 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. (S16.2.10.3.1, S20.1.9.3)

X N/A - No independent fore-aft seat cushion adjustment

X 1.8 Use any part of any control, other than the parts just used for fore-aft positioning, to determine the range of angles of the seat cushion reference line and to set the seat cushion reference line at the mid-angle. (S16.2.10.3.1) NO ADJUSTMENT

Maximum angle Zero  
Minimum angle Zero  
Mid-angle Zero

X 1.9 If the seat and/or seat cushion height is adjustable, use any part of any control other than the parts 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 1.8. (S16.2.10.3.1)

X N/A - No seat height adjustment

X 1.10 Use only the controls that primarily move the seat in the fore-aft direction to verify the seat is in the rearmost position.
1.11 Use only the controls that primarily move the seat in the fore-aft direction to **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.

1.12 Use only the controls that primarily move the seat in the fore-aft direction to place the seat in the rearmost position.

1.13 Use any part of any control, other than the parts which primarily move the seat or seat cushion fore-aft, to 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 1.8. (S20.1.9.4, S22.1.2, S22.1.7.4, S22.3.1, S22.4.3.1, S24.1.2, S24.3.1, S24.4.3.1, S26.2.3, S26.3.1)

X N/A - No seat height adjustment. **Go to 1.18**

1.14 Use only the controls that primarily move the seat and/or seat cushion in the fore-aft direction to place the seat in the mid-fore-aft position.

1.15 Use any part of any control, other than the parts which primarily move the seat or seat cushion fore-aft, to 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 1.8. (S20.1.9.4, S22.1.2, S22.1.7.4, S22.3.1, S24.1.2, S24.3.1)

1.16 Use only the control that change the seat in the fore-aft direction to place the seat in the foremost position. (S16.2.10.3.2)

1.17 Use any part of any control, other than the parts which primarily move the seat or seat cushion fore-aft, to 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 1.8. (S16.2.10.3.3, S20.1.9.4, S22.1.2, S22.1.7.4, S22.3.1, S24.1.2, S24.3.1)

1.18. **Visually mark** for future reference the seat back angle at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer for the rearmost, mid, and foremost seat positions. (S20.1.9.5, S22.1.7.5, S22.4.2.1, S22.4.3.1, S24.1.2, S24.4.2.1, S26.2.3, S26.3.1)

__ N/A - No seat back angle adjustment

Manufacturer's design seat back angle 21° On Seat Back Frame

1.19. Is the seat a bucket seat?

X Yes, go to 1.20 and skip 1.21

__ No, go to 1.21 and skip 1.20

1.20 Bucket seats:

Locate and **mark** for future reference the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S16.3.1.10 & S20.1.10)

1.21 Bench seats (complete ONLY the one that is applicable to the seat being marked):

1.21.1 Driver Seat

Locate and **mark** for future reference the longitudinal line on the seat cushion that marks the intersection of the vertical longitudinal plane through the centerline of the steering wheel and the seat cushion upper surface.
1.21.2 Passenger Seat
Locate and mark for future reference the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S20.2.1.3, S22.2.1.3, S24.2.3, S20.4.4, S22.2.2.1(b), S22.2.2.3(b), S22.2.2.4(a), S22.2.2.5(a), S22.2.2.6(a), S22.2.2.7(a), S24.2.3(a))

Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel. _______
Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion. (The vertical plane through this longitudinal centerline is Plane B for suppression.) _______

2. Head Restraint Position
N/A Vehicle contains automatic head restraints.
N/A, there is no head restraint adjustment

X 2.1 Adjust the head restraint to its lowest position. (S16.2.10.2, S20.1.9.6 S20.4.1, S22.1.7.6, S22.4.2.1, S22.4.3.1, S24.4.3.1, S26.2.3, S26.3.1)

X 2.2 All adjustments 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. (S16.2.10.2 & S16.3.4.4 & S20.1.9.6, S20.4.1, S22.4.2.1, S22.4.3.1, S24.4.3.1, S26.2.3, S26.3.1)

X 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. (S16.3.4.3)
Vertical height of head restraint 205 mm
Mid-point height 103 mm

______________________________  3/28/06_____________________
I certify that I have read and performed each instruction. Date
DATA SHEET 14.1
MARKING OF REFERENCE POINTS FOR 5th FEMALE

__Driver Seat X Passenger Seat

1. Seat Position
   X 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, S20.1.9.1, S20.4.1, S22.1.7.1)
   X N/A - No lumbar adjustment
   X 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, S20.1.9.2, S20.4.1, S22.1.7.1, S22.4.2.1, S22.4.3.1, S24.4.2.1, S26.2.3, S26.3.1)
   X N/A - No additional support adjustment
   X 1.3 Position an adjustable leg support system in its rearmost position. (8/27/04 interpretation to Toyota)
   X N/A - No adjustable leg support system
   X 1.4 **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. (S16.3.1.12)
   X N/A - No independent fore-aft seat cushion adjustment
   X 1.5 Draw a line (seat cushion reference line) through the seat cushion reference point. (S16.3.1.13)
   X 1.6 Use only the controls that primarily move the seat in the fore-aft direction to move the seat cushion reference point to the rearmost position. (S16.2.10.3.1, S22.1.7.3)
   X N/A - No independent fore-aft seat cushion adjustment
   X 1.7 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. (S16.2.10.3.1, S20.1.9.3)
   X N/A - No independent fore-aft seat cushion adjustment
   X 1.8 Use any part of any control, other than the parts just used for fore-aft positioning, to determine the range of angles of the seat cushion reference line and to set the seat cushion reference line at the mid-angle. (S16.2.10.3.1) **NO ADJUSTMENT**
      Maximum angle Zero
      Minimum angle Zero
      Mid-angle Zero
   X 1.9 If the seat and/or seat cushion height is adjustable, use any part of any control other than the parts 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 1.8. (S16.2.10.3.1)
   X N/A - No seat height adjustment
   X 1.10 Use only the controls that primarily move the seat in the fore-aft direction to verify the seat is in the rearmost position.
   X 1.11 Use only the controls that primarily move the seat in the fore-aft direction to **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.
   X 1.12 Use only the controls that primarily move the seat in the fore-aft direction to place the seat in the rearmost position.
1.13 Use any part of any control, other than the parts which primarily move the seat or seat cushion fore-aft, to 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 1.8. (S20.1.9.4, S22.1.2, S22.1.7.4, S22.3.1, S22.4.3.1, S24.1.2, S24.3.1, S24.4.3.1, S26.2.3, S26.3.1)

X N/A - No seat height adjustment. Go to 1.18

1.14 Use only the controls that primarily move the seat and/or seat cushion in the fore-aft direction to place the seat in the mid-fore-aft position.

1.15 Use any part of any control, other than the parts which primarily move the seat or seat cushion fore-aft, to 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 1.8. (S20.1.9.4, S22.1.2, S22.1.7.4, S22.3.1, S24.1.2, S24.3.1)

1.16 Use only the control that change the seat in the fore-aft direction to place the seat in the foremost position. (S16.2.10.3.2)

1.17 Use any part of any control, other than the parts which primarily move the seat or seat cushion fore-aft, to 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 1.8. (S16.2.10.3.3, S20.1.9.4, S22.1.2, S22.1.7.4, S22.3.1, S24.1.2, S24.3.1)

1.18 Visually mark for future reference the seat back angle at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer for the rearmost, mid, and foremost seat positions. (S20.1.9.5, S22.1.7.5, S22.4.2.1, S22.4.3.1, S24.1.2, S24.4.2.1, S26.2.3, S26.3.1)

X N/A - No seat back angle adjustment

Manufacturer's design seat back angle 21° On Seat Back Frame

1.19 Is the seat a bucket seat?

X Yes, go to 1.20 and skip 1.21

No, go to 1.21 and skip 1.20

1.20 Bucket seats:

Locate and mark for future reference the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S16.3.1.10 & S20.1.10)

1.21 Bench seats (complete ONLY the one that is applicable to the seat being marked):

1.21.1 Driver Seat

Locate and mark for future reference the longitudinal line on the seat cushion that marks the intersection of the vertical longitudinal plane through the centerline of the steering wheel and the seat cushion upper surface.

1.21.2 Passenger Seat

Locate and mark for future reference the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S20.2.1.3, S22.2.1.3, S24.2.3, S20.4.4, S22.2.2.1(b), S22.2.2.3(b), S22.2.2.4(a), S22.2.2.5(a), S22.2.2.6(a), S22.2.2.7(a), S24.2.3(a))

Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel. __________

Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion. (The vertical plane through this longitudinal centerline is Plane B for suppression.) __________
2. Head Restraint Position  
N/A Vehicle contains automatic head restraints.
N/A, there is no head restraint adjustment

2.1 Adjust the head restraint to its lowest position. (S16.2.10.2, S20.1.9.6, S20.4.1, S22.1.7.6, S22.4.2.1, S22.4.3.1, S24.4.3.1, S26.2.3, S26.3.1)

2.2 All adjustments 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. (S16.2.10.2 & S16.3.4.4 & S20.1.9.6, S20.4.1, S22.4.2.1, S22.4.3.1, S24.4.3.1, S26.2.3, S26.3.1)

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. (S16.3.4.3)
   - Vertical height of head restraint 205 mm
   - Mid-point height 103 mm

[Signature] 3/28/06

I certify that I have read and performed each instruction. Date
MARKING OF REFERENCE POINTS FOR STEERING WHEEL

1. Is the steering wheel adjustable up and down and/or in and out?
   X Yes - go to 2
   __No - this form is complete

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

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.
   X N/A - steering wheel is not adjustable in and out.

I certify that I have read and performed each instruction.  Date

Brian Rose  3/28/06
DATA SHEET 14.4
MARKING OF REFERENCE POINTS FOR DRIVER LOW RISK DEPLOYMENT

X Position 1  X Position 2

X 1. Position the steering wheel so the front wheels are in the straight-ahead position. (S26.2.1)

X 2. Position any adjustable parts of the steering controls to the mid-position as determined in Data Sheet 14.3 above. If a mid-position adjustment is not achievable, position the controls to the next lowest detent position. (S26.2.1)

X 3. Locate and mark the point that is defined by the intersection of the steering wheel cover and a line between the volumetric center of the smallest volume that can encompass the folded undeployed air bag and the volumetric center of the static fully inflated air bag. The vertical plane parallel to the vehicle longitudinal centerline through this point is referred to as "Plane E." (Check determination method below.) (S26.2.2)

Measurements with respect to measurement reference points:

The longitudinal centerline of the air bag was used.

__________________________
Point determined using manufacturer’s information supplied by the COTR. (Include manufacturer’s information in the test report.)

OR

X Point determined by test lab personnel and approved by the COTR. (Include supporting documentation in the test report.)

X 4. Locate the highest point of the air bag module cover. The horizontal plane through this point is referred to as "Plane F." (Check determination method below.) (S26.2.6)

Measurements with respect to measurement reference points:

The top of the air bag module cover was used.

__________________________
Point determined using manufacturer’s information supplied by the COTR. (Include manufacturer’s information in the test report.)

OR

X Point determined by test lab personnel and approved by the COTR. (Include supporting documentation in the test report.)

________________________________________  _____3/28/06_____
I certify that I have read and performed each instruction. Date
MARKING OF REFERENCE POINTS FOR PASSENGER LOW RISK DEPLOYMENT

Locate and mark the point that is defined by the intersection of the instrument panel and a line between the volumetric center of the smallest volume that can encompass the folded undeployed air bag and the volumetric center of the static fully inflated air bag. (S22.4.1.2, S24.4.1.2) The horizontal plane thru this point is referred to as “Plane C” (S22.4.1.4 and S24.4.1.4). The vertical plane parallel to the vehicle longitudinal centerline and through this point is referred to as “Plane D” (S22.4.1.3 and S24.4.1.3). (Check determination method below.)

Measurements with respect to measurement reference points:

X Point determined using manufacturer’s information supplied by the COTR.
   (Include manufacturer’s information in the test report.) See Appendix D-78
OR
__ Point determined by test lab personnel and approved by the COTR.
   (Include supporting documentation in the test report.)

I certify that I have read and performed each instruction.  

Date

3/28/06
DATA SHEET 15
H-POINT DETERMINATION FOR 50TH PERCENTILE MALE DUMMY

Test Vehicle: 2006 Dodge Ram  
Test Program: FMVSS 208 Compliance  
Test Technician: Joe Fleck  
NHTSA No.: C60304  
Test Date: 4/26/07

Driver Designated Seating Position  
Passenger Designated Seating Position

1. Place the seat in the mid-fore-aft position and full down position, with the head restraint full down and the seat back in the manufacturer’s nominal design riding position for the 50th percentile male as determined during the completion of Data Sheet 14.2.

2. Place a 910 mm$^2$ piece of muslin cotton cloth over the seat area. (The muslin cloth shall be comparable to 48 threads/in$^2$ and density of 2.85 lb/yd.) Tuck the muslin cloth in a sufficient amount to prevent hammocking of the material.

3. Place the seat and back assembly of the H-Point machine at the centerline of the seat as determined in Data Sheet 14.1 or 14.2.

4. Install the lower leg, and foot segments.

5. Set the length of the lower leg segment at 16.3 inches and the length of the thigh bar at 15.8 inches.

6. Leg and foot placement

6.1 Driver Designated Seating Position

6.1.1 Insert the pin so that the foot angle is never less than 87 degrees.

6.1.2 Place the right foot on the undepressed accelerator pedal with the sole of the foot on the pedal and the heel as far forward as allowable. Do not place the heel on the toe board.

6.1.3 With the T-bar level, place the left foot on the toe board with the rearmost point of the heel resting on the floor pan as close as possible to the point of intersection of the planes described by the toe board and the floor pan and not on the wheelwell projection. If the foot cannot be positioned on the toe board, set it on the floor pan.

6.2 Passenger Designated Seating Position

6.2.1 Insert the pin so that the foot angle is never less than 87 degrees.

6.2.2 Space the lower legs 10.6 inches apart, equally spaced about the centerline of the H-point machine.

6.2.3 With the T-bar level, place the left foot on the toe board with the rearmost point of the heel resting on the floor pan as close as possible to the point of intersection of the planes described by the toe board and the floor pan and not on the wheelwell projection. If the foot cannot be positioned on the toe board, set it on the floor pan.

6.2.3 With the T-bar level, place the right foot on the toe board with the rearmost point of the heel resting on the floor pan as close as possible to the point of intersection of the planes described by the toe board and the floor pan and not on the wheelwell projection. If the foot cannot be positioned on the toe board, set it on the floor pan.

7. Apply the lower leg weights.

8. Apply the thigh weights.
9. Tilt the back pan forward against the forward stop and draw the H-point machine away from the seatback using the T-bar.

10. Repositioning the back pan

10.1 Allow the H-point machine to slide rearward until a forward horizontal restraining load on the T-bar is no longer required due to the seat pan contacting the seat back.

10.2 The seat pan does not slide rearward. Go to 10.2

10.2 Slide the H-point machine rearward by a horizontal rearward load applied at the T-bar until the seat pan contacts the seat back.

11. Apply a 10 kg load at the intersection of the hip angle quadrant and the T-bar housing along a line from the above intersection to a point just above the thigh bar housing.

12. Again apply a 10 kg load at the intersection of the hip angle quadrant and the T-bar housing along a line from the above intersection to a point just above the thigh bar housing.

13. Carefully return the back pan to the seat back.

14. Install the right and left buttock weights.

15. Install the eight torso weights alternately the installation between right and left.

16. Tilt the back pan forward until the stop is contacted.

17. Rock the H-point from side to side over a 10 degree arc (5 degrees to each side of the vertical centerline) for three complete cycles. Restrain the T-bar during rocking so that the seat pan does not change position. Minimize any inadvertent exterior loads applied in a vertical or fore-aft direction. The feet are free to move during this rocking motion.

18. Without applying a forward or lateral load lift the right foot off the floor the minimum amount necessary until no additional forward foot movement is obtained.

19. Lower the right foot until the heel is in contact with the floor pan and the ball of the foot is in contact with the floor, toe board, or undepressed accelerator pedal.

20. Without applying a forward or lateral load lift the left foot off the floor the minimum amount necessary until no additional forward foot movement is obtained.

21. Lower the left foot until the heel is in contact with the floor pan and the ball of the foot is in contact with the floor or toe board.

22. Is the seat pan level?

   Yes, Go to 24
   No, Go to 23

23. Apply a sufficient lateral load to the top of the seatback pan to level the H-point machine seat pan on the seat.

24. Holding the T-bar to prevent the H-point from sliding forward on the seat cushion, return the seatback pan to the seatback.

25. Holding the T-bar to prevent the H-point from sliding forward on the seat cushion, apply sufficient rearward force perpendicular to the back angle bar just above the torso weights to increase the hip angle 3 degrees. Minimize the exterior downward or side forces applied to the H-point machine. Release the force. Repeat this step until the hip angle readout is identical. Complete as many force applications as necessary and record the results in the following table:

<table>
<thead>
<tr>
<th>Force Application</th>
<th>Hip Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>96</td>
</tr>
<tr>
<td>2</td>
<td>97</td>
</tr>
<tr>
<td>3</td>
<td>97</td>
</tr>
<tr>
<td>4</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>
26. Is the H-point machine level?
   - Yes, go to 27.
   - No, relevel. Go back to step 16 and repeat using a new data sheet.

27. Record the H-point location.
   - Describe and mark the measuring reference point.

<table>
<thead>
<tr>
<th>Driver H-Point (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP to Floor Z</td>
</tr>
<tr>
<td>HP to Hinge X</td>
</tr>
<tr>
<td>HP to Sill Y</td>
</tr>
<tr>
<td>HP to Striker X</td>
</tr>
<tr>
<td>HP to Dash X</td>
</tr>
<tr>
<td>HP to Header Z</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>H-Point Machine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Knee</td>
</tr>
<tr>
<td>Right Knee</td>
</tr>
<tr>
<td>Left Foot Angle</td>
</tr>
<tr>
<td>Right Foot Angle</td>
</tr>
<tr>
<td>Left Leg</td>
</tr>
<tr>
<td>Right Leg</td>
</tr>
<tr>
<td>Hip Angle</td>
</tr>
<tr>
<td>Back Angle</td>
</tr>
</tbody>
</table>

REMARKS:

I certify that I have read and performed each instruction.

Signature: _________________________ Date: 4/26/07
DATA SHEET 15
H-POINT DETERMINATION FOR 50TH PERCENTILE MALE DUMMY

Test Vehicle: 2006 Dodge Ram  
Test Program: FMVSS 208 Compliance  
Test Technician: Joe Fleck  
Test Date: 4/26/07  
NHTSA No.: C60304

__Driver Designated Seating Position   X Passenger Designated Seating Position

X 1. Place the seat in the mid-fore-aft position and full down position, with the head restraint full down and the seat back in the manufacturer’s nominal design riding position for the 50th percentile male as determined during the completion of Data Sheet 14.2.

X 2. Place a 910 mm² piece of muslin cotton cloth over the seat area. (The muslin cloth shall be comparable to 48 threads/in² and density of 2.85 lb/yd.) Tuck the muslin cloth in a sufficient amount to prevent hammocking of the material.

X 3. Place the seat and back assembly of the H-Point machine at the centerline of the seat as determined in Data Sheet 14.1 or 14.2.

X 4. Install the lower leg, and foot segments.

X 5. Set the length of the lower leg segment at 16.3 inches and the length of the thigh bar at 15.8 inches.

X 6. Leg and foot placement
__6.1 Driver Designated Seating Position
__6.1.1 Insert the pin so that the foot angle is never less than 87 degrees.
__6.1.2 Place the right foot on the undepressed accelerator pedal with the sole of the foot on the pedal and the heel as far forward as allowable. Do not place the heel on the toe board.
__6.1.2 Adjust the left leg to be the same distance from H-point machine centerline as the right leg.
__6.1.3 With the T-bar level, place the left foot on the toe board with the rearmost point of the heel resting on the floor pan as close as possible to the point of intersection of the planes described by the toe board and the floor pan and not on the wheelwell projection. If the foot cannot be positioned on the toe board, set it on the floor pan.
    __Foot on toe board
    __Foot on floor pan

X 6.2 Passenger Designated Seating Position
X 6.2.1 Insert the pin so that the foot angle is never less than 87 degrees.
X 6.2.2 Space the lower legs 10.6 inches apart, equally spaced about the centerline of the H-point machine.
X 6.2.3 With the T-bar level, place the left foot on the toe board with the rearmost point of the heel resting on the floor pan as close as possible to the point of intersection of the planes described by the toe board and the floor pan and not on the wheelwell projection. If the foot cannot be positioned on the toe board, set it on the floor pan.
    X Foot on toe board
    __Foot on floor pan.

X 6.2.3 With the T-bar level, place the right foot on the toe board with the rearmost point of the heel resting on the floor pan as close as possible to the point of intersection of the planes described by the toe board and the floor pan and not on the wheelwell projection. If the foot cannot be positioned on the toe board, set it on the floor pan.
    X Foot on toe board
    __Foot on floor pan.

X 7. Apply the lower leg weights.
8. Apply the thigh weights.
9. Tilt the back pan forward against the forward stop and draw the H-point machine away from the seatback using the T-bar.
10. Repositioning the back pan
   10.1 Allow the H-point machine to slide rearward until a forward horizontal restraining load on the T-bar is no longer required due to the seat pan contacting the seat back.  
   The seat pan does not slide rearward.  Go to 10.2
   10.2 Slide the H-point machine rearward by a horizontal rearward load applied at the T-bar until the seat pan contacts the seat back.
11. Apply a 10 kg load at the intersection of the hip angle quadrant and the T-bar housing along a line from the above intersection to a point just above the thigh bar housing.
12. Again apply a 10 kg load at the intersection of the hip angle quadrant and the T-bar housing along a line from the above intersection to a point just above the thigh bar housing.
13. Carefully return the back pan to the seat back.
14. Install the right and left buttock weights.
15. Install the eight torso weights alternately the installation between right and left.
16. Tilt the back pan forward until the stop is contacted.
17. Rock the H-point from side to side over a 10 degree arc (5 degrees to each side of the vertical centerline) for three complete cycles. Restrain the T-bar during rocking so that the seat pan does not change position. Minimize any inadvertent exterior loads applied in a vertical or fore-aft direction. The feet are free to move during this rocking motion.
18. Without applying a forward or lateral load lift the right foot off the floor the minimum amount necessary until no additional forward foot movement is obtained.
19. Lower the right foot until the heel is in contact with the floor pan and the ball of the foot is in contact with the floor, toe board, or undepressed accelerator pedal.
20. Without applying a forward or lateral load lift the left foot off the floor the minimum amount necessary until no additional forward foot movement is obtained.
21. Lower the left foot until the heel is in contact with the floor pan and the ball of the foot is in contact with the floor or toe board.
22. Is the seat pan level?
   Yes, Go to 24
   No, Go to 23
23. Apply a sufficient lateral load to the top of the seatback pan to level the H-point machine seat pan on the seat.
24. Holding the T-bar to prevent the H-point from sliding forward on the seat cushion, return the seatback pan to the seatback.
25. Holding the T-bar to prevent the H-point from sliding forward on the seat cushion, apply sufficient rearward force perpendicular to the back angle bar just above the torso weights to increase the hip angle 3 degrees. Minimize the exterior downward or side forces applied to the H-point machine. Release the force. Repeat this step until the hip angle readout is identical. Complete as many force applications as necessary and record the results in the following table:

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<td>4</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>
26. Is the H-point machine level?
   X Yes, go to 27.
   No, relevel. Go back to step 16 and repeat using a new data sheet.

27. Record the H-point location.
   Describe and mark the measuring reference point.

<table>
<thead>
<tr>
<th>Passenger H-Point</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
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<td>HP to Striker X</td>
</tr>
<tr>
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<tr>
<td>HP to Header Z</td>
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</tbody>
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</tr>
<tr>
<td>Left Leg</td>
</tr>
<tr>
<td>Right Leg</td>
</tr>
<tr>
<td>Hip Angle</td>
</tr>
<tr>
<td>Back Angle</td>
</tr>
</tbody>
</table>

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

Signature:  
Date: 4/26/07
DATA SHEET 24 SUMMARY TRIAL 1
Low Risk Deployment Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20.4)

NHTSA No.: C60304  TEST DATE: 3-28-06
LABORATORY: MGA  TECHNICIANS: BR/BS
DUMMY TYPE: 12 Month Old  DUMMY SERIAL NO.: 083

Child Restraint Name and Model: Century Encore
Separate Base? No
Base Used? (S20.1.7) N/A
Handle Position? (S20.1.3) N/A
Sunshade? (S20.1.4) N/A
Blanket Position 1? (S20.1.5(a)) No
Blanket Position 2? (S20.1.5(b)) No

Tested seat back angle: 30.5° On Seat Back Frame*
Seat cushion angle: Zero (No Adjustment)
Manufacturer’s specified anchorage position: 2nd with uppermost as “0”
Tested anchorage position: 2nd with uppermost as “0”
Tested seat position: Full forward
Seat belt tension: 7 N

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>10.0</td>
<td>10.0</td>
</tr>
</tbody>
</table>

12-Month-Old CRABI In CRS (Century Encore) 3-28-06

<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>390</td>
<td>400</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.4</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>101.7</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
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</tr>
<tr>
<td>Time (ms)</td>
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<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
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<td>128.5</td>
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<tr>
<td>Peak Nij (Ncf)</td>
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<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
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<td>29.5</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>780 N</td>
<td>379</td>
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<tr>
<td>Neck Compression</td>
<td>960 N</td>
<td>190</td>
</tr>
<tr>
<td>Chest g</td>
<td>50 g</td>
<td>33</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 10 ms; Injuries calculated on 0 ms to 135 ms

* The low risk deployment test was conducted with a 30.5° seat back angle. This was caused by misunderstanding of where DaimlerChrysler measured their 21° on the seat back frame.
DATA SHEET 24 SUMMARY TRIAL 2

Low Risk Deployment Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20.4)

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C60304</th>
<th>TEST DATE:</th>
<th>6-22-06</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JH/BR</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>083</td>
</tr>
</tbody>
</table>

Child Restraint Name and Model: **Century Encore**

<table>
<thead>
<tr>
<th>Separate Base?</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Used? (S20.1.7)</td>
<td>N/A</td>
</tr>
<tr>
<td>Handle Position? (S20.1.3)</td>
<td>N/A</td>
</tr>
<tr>
<td>Sunshade? (S20.1.4)</td>
<td>N/A</td>
</tr>
<tr>
<td>Blanket Position 1? (S20.1.5(a))</td>
<td>No</td>
</tr>
<tr>
<td>Blanket Position 2? (S20.1.5(b))</td>
<td>No</td>
</tr>
</tbody>
</table>

Tested seat back angle: 21° On Seat Back Frame

Seat cushion angle: Zero (No Adjustment)

Manufacturer’s specified anchorage position: 2nd with uppermost as “0”

Tested anchorage position: 2nd with uppermost as “0”

Tested seat position: Full forward

Seat belt tension: 5 N

### 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>10.0</td>
<td>10.1</td>
</tr>
</tbody>
</table>

### 12-Month-Old CRABI In CRS (Century Encore) 6-22-06

<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>390</td>
<td>952</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.5</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>73.0</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>83.8</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>98.6</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
<td>1.0</td>
<td>0.7</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>122.6</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>780 N</td>
<td>489</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>960 N</td>
<td>517</td>
</tr>
<tr>
<td>Chest g</td>
<td>50 g</td>
<td>47</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 10 ms; Injuries calculated on 0 ms to 135 ms
DATA SHEET 24 SUMMARY TRIAL 3
Low Risk Deployment Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20.4)

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
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<th>TEST DATE:</th>
<th>6-22-06</th>
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<tbody>
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<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JH/BR</td>
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<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>083</td>
</tr>
</tbody>
</table>

Child Restraint Name and Model: **Century Encore**
Separate Base? No
Base Used? (S20.1.7) N/A
Handle Position? (S20.1.3) N/A
Sunshade? (S20.1.4) N/A
Blanket Position 1? (S20.1.5(a)) No
Blanket Position 2? (S20.1.5(b)) No

Tested seat back angle: 21° On Seat Back Frame
Seat cushion angle: Zero (No Adjustment)
Manufacturer’s specified anchorage position: 2nd with uppermost as “0”
Tested anchorage position: 2nd with uppermost as “0”
Tested seat position: Full forward
Seat belt tension: 24 N

### 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>10.0</td>
<td>10.0</td>
</tr>
</tbody>
</table>

### 12-Month-Old CRABI In CRS (Century Encore) 6-22-06

<table>
<thead>
<tr>
<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Measured Value</th>
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</thead>
<tbody>
<tr>
<td>HIC15</td>
<td>390</td>
<td>916</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.5</td>
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<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>80.1</td>
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<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>23.8</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>118.9</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>41.3</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>780 N</td>
<td>471</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>960 N</td>
<td>275</td>
</tr>
<tr>
<td>Chest g</td>
<td>50 g</td>
<td>41</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 10 ms; Injuries calculated on 0 ms to 135 ms
DATA SHEET 24 SUMMARY TRIAL 4
Low Risk Deployment Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20.4)

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<tbody>
<tr>
<td>LABORATORY:</td>
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<td>TECHNICIANS:</td>
<td>JH/BR</td>
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<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>083</td>
</tr>
</tbody>
</table>

Child Restraint Name and Model: Century Encore
Separate Base? No
Base Used? (S20.1.7) N/A
Handle Position? (S20.1.3) N/A
Sunshade? (S20.1.4) N/A
Blanket Position 1? (S20.1.5(a)) No
Blanket Position 2? (S20.1.5(b)) No

Tested seat back angle: 21° On Seat Back Frame
Seat cushion angle: Zero (No Adjustment)
Manufacturer’s specified anchorage position: 2nd with uppermost as “0”
Tested anchorage position: 2nd with uppermost as “0”
Tested seat position: Full forward
Seat belt tension: 19 N

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>10.0</td>
<td>10.1</td>
</tr>
</tbody>
</table>

12-Month-Old CRABI In CRS (Century Encore) 6-22-06

<table>
<thead>
<tr>
<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Measured Value</th>
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</thead>
<tbody>
<tr>
<td>HIC15</td>
<td>390</td>
<td>637</td>
</tr>
<tr>
<td>Peak Nij (Nte)</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 (Ntf)</td>
<td>1.0</td>
<td>0.3</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>80.8</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.5</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>101.2</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
<td>1.0</td>
<td>0.4</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>119.0</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>780 N</td>
<td>451</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>960 N</td>
<td>389</td>
</tr>
<tr>
<td>Chest g</td>
<td>50 g</td>
<td>39</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 10 ms; Injuries calculated on 0 ms to 135 ms
DATA SHEET 24 SUMMARY TRIAL 5
Low Risk Deployment Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20.4)

<table>
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<th>C60304</th>
<th>TEST DATE:</th>
<th>3-27-07</th>
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<tbody>
<tr>
<td>LABORATORY:</td>
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<td>TECHNICIANS:</td>
<td>JH/WD</td>
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<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>084</td>
</tr>
</tbody>
</table>

Child Restraint Name and Model: Century Encore
Separate Base? No
Base Used? (S20.1.7) N/A
Handle Position? (S20.1.3) N/A
Sunshade? (S20.1.4) N/A
Blanket Position 1? (S20.1.5(a)) No
Blanket Position 2? (S20.1.5(b)) No

Tested seat back angle: 21° On Seat Back Frame
Seat cushion angle: Zero (No Adjustment)
Manufacturer’s specified anchorage position: 2nd with uppermost as “0”
Tested anchorage position: 2nd with uppermost as “0”
Tested seat position: Full forward
Seat belt tension: 1 N

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>10.0</td>
<td>10.0</td>
</tr>
</tbody>
</table>

12-Month-Old CRABI In CRS (Century Encore) 3-27-07

<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>390</td>
<td>150</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>98.6</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>26.9</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>36.7</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>32.5</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>780 N</td>
<td>212</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>960 N</td>
<td>77</td>
</tr>
<tr>
<td>Chest g</td>
<td>50 g</td>
<td>29</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 10 ms; Injuries calculated on 0 ms to 135 ms
DATA SHEET 24 SUMMARY TRIAL 6
Low Risk Deployment Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20.4)

<table>
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<th>C60304</th>
<th>TEST DATE:</th>
<th>3-28-07</th>
</tr>
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<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JH/WD</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>084</td>
</tr>
</tbody>
</table>

Child Restraint Name and Model: Century Encore
Separate Base? No
Base Used? (S20.1.7) N/A
Handle Position? (S20.1.3) N/A
Sunshade? (S20.1.4) N/A
Blanket Position 1? (S20.1.5(a)) No
Blanket Position 2? (S20.1.5(b)) No

Tested seat back angle: 21° On Seat Back Frame
Seat cushion angle: Zero (No Adjustment)
Manufacturer’s specified anchorage position: 2nd with uppermost as “0”
Tested anchorage position: 2nd with uppermost as “0”
Tested seat position: Full forward
Seat belt tension: 129 N

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>10.0</td>
<td>10.0</td>
</tr>
</tbody>
</table>

12-Month-Old CRABI In CRS (Century Encore) 3-28-07

<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>390</td>
<td>30</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.4</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>98.0</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>28.1</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>13.9</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
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<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>32.0</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>780 N</td>
<td>267</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>960 N</td>
<td>90</td>
</tr>
<tr>
<td>Chest g</td>
<td>50 g</td>
<td>14</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 10 ms; Injuries calculated on 0 ms to 135 ms
DATA SHEET 24 SUMMARY

Low Risk Deployment Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20.4)

<table>
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<tr>
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<th>C60304</th>
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</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JH/WD</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>084</td>
</tr>
</tbody>
</table>

Child Restraint Name and Model: Evenflo Medallion
Separate Base? No
Base Used? (S20.1.7) N/A
Handle Position? (S20.1.3) N/A
Sunshade? (S20.1.4) N/A
Blanket Position 1? (S20.1.5(a)) No
Blanket Position 2? (S20.1.5(b)) No

Tested seat back angle: 21° On Seat Back Frame
Seat cushion angle: Zero (No Adjustment)
Manufacturer’s specified anchorage position: 2nd with uppermost as “0”
Tested anchorage position: 2nd with uppermost as “0”
Tested seat position: Full forward
Seat belt tension: 69 N

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>10.0</td>
<td>10.1</td>
</tr>
</tbody>
</table>

12-Month-Old CRABI In CRS (Evenflo Medallion) 3-28-07

<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>390</td>
<td>33</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.4</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>105.0</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>27.8</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>38.2</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
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<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
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<td>31.4</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>780 N</td>
<td>258</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>960 N</td>
<td>85</td>
</tr>
<tr>
<td>Chest g</td>
<td>50 g</td>
<td>18</td>
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</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 10 ms; Injuries calculated on 0 ms to 135 ms.
DATA SHEET 24 SUMMARY
Low Risk Deployment Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20.4)

<table>
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<tr>
<th>NHTSA No.:</th>
<th>C60304</th>
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<th>3-28-07</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JH/WD</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>084</td>
</tr>
</tbody>
</table>

Child Restraint Name and Model: Britax Roundabout
Separate Base? No
Base Used? (S20.1.7) N/A
Handle Position? (S20.1.3) N/A
Sunshade? (S20.1.4) N/A
Blanket Position 1? (S20.1.5(a)) No
Blanket Position 2? (S20.1.5(b)) No

Tested seat back angle: 21° On Seat Back Frame
Seat cushion angle: Zero (No Adjustment)
Manufacturer’s specified anchorage position: 2nd with uppermost as “0”
Tested anchorage position: 2nd with uppermost as “0”
Tested seat position: Full forward
Seat belt tension: 0 N

### 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>10.0</td>
<td>10.0</td>
</tr>
</tbody>
</table>

### 12-Month-Old CRABI In CRS (Britax Roundabout) 3-28-07

<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>390</td>
<td>106</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.4</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>103.7</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>26.5</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>36.8</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>30.7</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>780 N</td>
<td>261</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>960 N</td>
<td>30</td>
</tr>
<tr>
<td>Chest g</td>
<td>50 g</td>
<td>21</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 10 ms; Injuries calculated on 0 ms to 135 ms
DATA SHEET 24 SUMMARY

Low Risk Deployment Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20.4)

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C60304</th>
<th>TEST DATE:</th>
<th>3-28-07</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JH/WD</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>084</td>
</tr>
</tbody>
</table>

Child Restraint Name and Model: Britax Handle With Care
Separate Base? No
Base Used? (S20.1.7) N/A
Handle Position? (S20.1.3) Down
Sunshade? (S20.1.4) N/A- Removed per COTR
Blanket Position 1? (S20.1.5(a)) No
Blanket Position 2? (S20.1.5(b)) No

Tested seat back angle: 21° On Seat Back Frame
Seat cushion angle: Zero (No Adjustment)
Manufacturer’s specified anchorage position: 2nd with uppermost as “0”
Tested anchorage position: 2nd with uppermost as “0”
Tested seat position: Full forward
Seat belt tension: 2 N

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>10.0</td>
<td>10.0</td>
</tr>
</tbody>
</table>

12-Month-Old CRABI In CRS (Britax Handle With Care) 3-28-07

<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>390</td>
<td>1</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
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<td>134.7</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>87.8</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>33.4</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>49.7</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>780 N</td>
<td>17</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>960 N</td>
<td>177</td>
</tr>
<tr>
<td>Chest g</td>
<td>50 g</td>
<td>5</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 10 ms; Injuries calculated on 0 ms to 135 ms
DATA SHEET 24 SUMMARY
Low Risk Deployment Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20.4)

<table>
<thead>
<tr>
<th>NHTSA No.</th>
<th>C60304</th>
<th>TEST DATE:</th>
<th>3-28-07</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JH/WD</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>084</td>
</tr>
</tbody>
</table>

Child Restraint Name and Model: Graco Infant
Separate Base? Yes
Base Used? (S20.1.7) Yes
Handle Position? (S20.1.3) Down
Sunshade? (S20.1.4) Stowed
Blanket Position 1? (S20.1.5(a)) No
Blanket Position 2? (S20.1.5(b)) No

Tested seat back angle: 21° On Seat Back Frame
Seat cushion angle: Zero (No Adjustment)
Manufacturer’s specified anchorage position: 2nd with uppermost as “0”
Tested anchorage position: 2nd with uppermost as “0”
Tested seat position: 5th notch with 1st as 1
Seat belt tension: 1 N

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>10.0</td>
<td>10.0</td>
</tr>
</tbody>
</table>

12-Month-Old CRABI In CRS (Graco Infant) 3-28-07

<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>390</td>
<td>3</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>129.4</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>103.5</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>60.2</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>35.6</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>780 N</td>
<td>43</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>960 N</td>
<td>230</td>
</tr>
<tr>
<td>Chest g</td>
<td>50 g</td>
<td>5</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 10 ms; Injuries calculated on 0 ms to 135 ms
DATA SHEET 24 SUMMARY
Low Risk Deployment Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20.4)

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C60304</th>
<th>TEST DATE:</th>
<th>3-28-07</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JH/WD</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>084</td>
</tr>
</tbody>
</table>

Child Restraint Name and Model: **Evenflo First Choice**

- Separate Base? No
- Base Used? (S20.1.7) N/A
- Handle Position? (S20.1.3) Down
- Sunshade? (S20.1.4) N/A
- Blanket Position 1? (S20.1.5(a)) No
- Blanket Position 2? (S20.1.5(b)) No

Tested seat back angle: 21° On Seat Back Frame

- Seat cushion angle: Zero (No Adjustment)
- Manufacturer’s specified anchorage position: 2nd with uppermost as “0”
- Tested anchorage position: 2nd with uppermost as “0”
- Tested seat position: Full forward
- Seat belt tension: 19 N

### 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>10.0</td>
<td>10.0</td>
</tr>
</tbody>
</table>

### Injury Criteria

<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>390</td>
<td>1</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>135.0</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>44.9</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>53.8</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>95.5</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>780 N</td>
<td>60</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>960 N</td>
<td>54</td>
</tr>
<tr>
<td>Chest g</td>
<td>50 g</td>
<td>2</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 10 ms; Injuries calculated on 0 ms to 135 ms
DATA SHEET 25 SUMMARY
Low Risk Deployment Tests Using an Unbelted 3-Year-Old Dummy (Part 572, Subpart P) (S22)
Position 1 - Chest On Instrument Panel (S22.4.2)

NHTSA No.: C60304 TEST DATE: 4/10/07
LABORATORY: MGA TECHNICIANS: BR/WD
DUMMY TYPE: 3-Year-Old DUMMY SERIAL NO.: 032

Manufacturer's design seat back angle: 21° On Seat Back Frame
Tested seat back angle: 21° On Seat Back Frame
Tested seat position: Full Aft

Thorax cavity angle: 0.2°
Thigh angle: 88.6°
Point 1 height: 10 mm Below AB Module

<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>150.0</td>
<td>150.1</td>
</tr>
</tbody>
</table>

3-Year-Old SN 032 Position 1 (Chest on Instrument Panel) 4-10-07

<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>570</td>
<td>4</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>39.9</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>17.0</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
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<tr>
<td>Time (ms)</td>
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<td>0.1</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>10.4</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>1130 N</td>
<td>303</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>1380 N</td>
<td>32</td>
</tr>
<tr>
<td>Chest g</td>
<td>55 g</td>
<td>8</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>34 mm</td>
<td>4</td>
</tr>
</tbody>
</table>

Calculated on data recorded for 100 ms after the initial deployment of the air bag. (S4.11(b))
DATA SHEET 26 SUMMARY
Low Risk Deployment Tests Using an Unbelted 3-Year-Old Dummy (Part 572, Subpart P) (S22)
Position 2 - Head On Instrument Panel (S22.4.3)

NHTSA No.: C60304
TEST DATE: 4/10/07
LABORATORY: MGA
TECHNICIANS: BR/WD
DUMMY TYPE: 3-Year-Old
DUMMY SERIAL NO.: 032

Manufacturer’s design seat back angle: 21° On Seat Back Frame
Tested seat back angle: 21° On Seat Back Frame
Tested seat position: Full Forward

Thorax cavity angle: 10.0°
Thigh angle: 12.5°

<table>
<thead>
<tr>
<th>Air Bag Deployment Timing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stage No.</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
</tbody>
</table>

3-Year-Old SN 032 Position 2 (Head on Instrument Panel) 4-10-07

<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>570</td>
<td>4</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>20.4</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>12.0</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>16.1</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>57.5</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>1130 N</td>
<td>30</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>1380 N</td>
<td>330</td>
</tr>
<tr>
<td>Chest g</td>
<td>55 g</td>
<td>3</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>34 mm</td>
<td>0</td>
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</table>

Calculated on data recorded for 100 ms after the initial deployment of the air bag. (S4.11(b))
DATA SHEET 27 SUMMARY
Low Risk Deployment Tests Using an Unbelted 6-Year-Old Dummy (Part 572, Subpart P) (S24)
Position 1 - Chest On Instrument Panel (S24.4.2)

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C60304</th>
<th>TEST DATE:</th>
<th>4/10/07</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>BR/WD</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>6-Year-Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>159</td>
</tr>
</tbody>
</table>

Manufacturer's design seat back angle: 21° On Seat Back Frame
Tested seat back angle: 21° On Seat Back Frame
Tested seat position: Full Aft
Thorax cavity angle: 6.0°
Point 1 height: 40 mm Below AB 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>
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<td>2</td>
<td>150.0</td>
<td>150.2</td>
</tr>
</tbody>
</table>

6-Year-Old SN 159 Position 1 (Chest on Instrument Panel) 4-10-07

<table>
<thead>
<tr>
<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Measured Value</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
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<tr>
<td>Time (ms)</td>
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<tr>
<td>Peak Nij (Ntf)</td>
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<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
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<td>25.4</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
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<td>0.0</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
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<tr>
<td>Peak Nij (Ncf)</td>
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<td>0.0</td>
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<tr>
<td>Time (ms)</td>
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<tr>
<td>Neck Tension</td>
<td>1490 N</td>
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<tr>
<td>Neck Compression</td>
<td>1820 N</td>
<td>13</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>4</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>40 mm</td>
<td>1</td>
</tr>
</tbody>
</table>

Calculated on data recorded for 100 ms after the initial deployment of the air bag. (S4.11(b))
DATA SHEET 28 SUMMARY
Low Risk Deployment Tests Using an Unbelted 6-Year-Old Dummy (Part 572, Subpart N) (S24)
Position 2 - Head On Instrument Panel (S24.4.3)

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C60304</th>
<th>TEST DATE:</th>
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<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>BR/WD</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>6-Year-Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>159</td>
</tr>
</tbody>
</table>

Manufacturer’s design seat back angle: 21° On Seat Back Frame
Tested seat back angle: 21° On Seat Back Frame
Tested seat position: Full Forward
Thorax cavity angle: 31.5°
Thigh angle: 1.5°

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>150.0</td>
<td>150.3</td>
</tr>
</tbody>
</table>

6-Year-Old SN 159 Position 2 (Head on Instrument Panel) 4-10-07

<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>2</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>20.2</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>3.5</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>44.8</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>14.6</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>1490 N</td>
<td>197</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>1820 N</td>
<td>496</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>3</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>40 mm</td>
<td>0</td>
</tr>
</tbody>
</table>

Calculated on data recorded for 100 ms after the initial deployment of the air bag. (S4.11(b))
**DATA SHEET 29 SUMMARY**

Low Risk Deployment Tests Using an Unbelted 5th Percentile Female Dummy (Part 572, Subpart O) (S26) Position 1 - Chin On Module (S26.2)

<table>
<thead>
<tr>
<th>NHTSA No.</th>
<th>C60304</th>
<th>TEST DATE:</th>
<th>3/28/06</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>BR/BS</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>5th Percentile Female</td>
<td>DUMMY SERIAL NO.:</td>
<td>510</td>
</tr>
</tbody>
</table>

Manufacturer's design seat back angle: 21.0° seat back angle
Tested seat back angle: 21.7° seat back angle
Tested seat position: Full Aft

Tested steering wheel angle: 25.4°
Thorax cavity angle: 31.4°
Bottom of chin height: 26 mm above module height *

### 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>150.0</td>
<td>150.0</td>
</tr>
</tbody>
</table>

### 5th Percentile Female SN 510 Position 1 (Chin On Module) 3-28-06

<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>32</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
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</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>100.7</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>27.2</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.5</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>185.2</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>221.9</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2070 N</td>
<td>865</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>513</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>22</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>14</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>203</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>132</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 150 ms; Injuries calculated on 0 ms to 275 ms

* The seat interfered with positioning. This did not allow the dummy to be placed higher.
Low Risk Deployment Tests Using an Unbelted 5th Percentile Female Dummy (Part 572, Subpart O) (S26)
Position 2 - Chin On Rim (S26.3)

Manufacturer’s design seat back angle: 21.0° seat back angle
Tested seat back angle: 21.8° seat back angle
Tested seat position: Full Aft
Tested steering wheel angle: 22.5°
Thorax cavity angle: 28.4°
Chin Point height: 2 mm Below Steering Wheel Target
Note: The chin on rim steering wheel target is 10 mm below the highest point on the steering wheel

### 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>150.0</td>
<td>150.0</td>
</tr>
</tbody>
</table>

### 5th Percentile Female SN 505 Position 2 (Chin On Rim) 3-29-07

<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>20</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.7</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
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<tr>
<td>Peak Nij (Ntf)</td>
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<tr>
<td>Time (ms)</td>
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<td>32.3</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
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<td>0.0</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>200.8</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
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<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>50.8</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2070 N</td>
<td>700</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>165</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>24</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>23</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>4</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>11</td>
</tr>
</tbody>
</table>

Calculated on data recorded for 125ms 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 150 ms; Injuries calculated on 0 ms to 275 ms
DATA SHEET 32
VEHICLE WEIGHT, FUEL TANK, AND ATTITUDE DATA

Test Vehicle: 2006 Dodge Ram  
Test Program: FMVSS 208 Compliance  
Test Technician: Jamie Aide  
NHTSA No.: C60304  
Test Date: 4/26/07

IMPACT ANGLE: Zero Degrees  
BELTED DUMMIES (YES/NO): No  
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

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: 98.4 liters (26.0 gallons)
5. Record the fuel tank capacity supplied in the owner’s manual.
   Useable Fuel Tank Capacity in owner’s manual: 98.4 liters (26.0 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: 98.4 liters (26.0 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: 35 psi | LF: 35 psi | RR: 35 psi | LR: 35 psi
   Owner’s manual pressure: RF: 35 psi | LF: 35 psi | RR: 35 psi | LR: 35 psi
   Actual inflated pressure: RF: 35 psi | LF: 35 psi | RR: 35 psi | LR: 35 psi
12. Record the vehicle weight at each wheel to determine the unloaded vehicle weight (UVW), i.e. "as delivered" weight.
   Right Front (kg): 574.2 | Right Rear (kg): 462.7
   Left Front (kg): 590.1 | Left Rear (kg): 462.7
   Total Front (kg): 1164.3 | Total Rear (kg): 925.4
   % Total Weight: 55.7 | % Total Weight: 44.3
   UVW = TOTAL FRONT PLUS TOTAL REAR (KG): 2089.7
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: 899  LF: 898  RR: 976  LR: 977

14. Calculate the Rated Cargo and Luggage Weight (RCLW): 136 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 = 656 kg (1448 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 = __________

14.7 RCLW = VCW - (68 kg x DSC) = 656 kg - (68 kg x 3) = 452 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): 2381.8 kg
15.1 Place the appropriate test dummy in both front outboard seating positions.

   Driver:  __ 5th female  X 50th male
   Passenger: __ 5th female  X 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):  597.8  Right Rear (kg):  568.4
   Left Front (kg):  638.2  Left Rear (kg):  577.4
   Total Front (kg): 1236.0  Total Rear (kg): 1145.8
   % Total Weight: 51.9  % Total Weight: 48.1
   % GVW: 61.4  % GVW: 64.7
   (% GVW = Axle GVW divided by Vehicle GVW)

   Fully Loaded Weight = Total Front Plus Total Rear (kg): 2381.8

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

| RF: 894 | LF: 894 | RR: 946 | LR: 945 |

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 usable capacity.

Fuel tank capacity x .94 = 98.4 liters (26.0 gallons) x .94 = 92.5 liters (24.4 gallons)

Amount added 90.8 liters (24.0 gallons) 92.3%

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)

\[
2381.7 \text{ kg} = 2089.7 \text{ kg} + 136.0 \text{ kg} + 156.0 \text{ kg}
\]

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

Max. Test Weight = Calculated Test Weight - 4.5 kg = 2377.2 kg

Min. Test Weight = Calculated Test Weight - 9 kg = 2372.7 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:

None

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: 94.8 kg

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.

| Right Front (kg): 610.5 | Right Rear (kg): 566.1 |
| Left Front (kg): 633.2 | Left Rear (kg): 565.2 |
| Total Front (kg): 1243.7 | Total Rear (kg): 1131.3 |
| % Total Weight: 52.4 | % Total Weight: 47.6 |
| % GVW: 61.4 | % GVW: 64.7 |

(% GVW = Axle GVW divided by Vehicle GVW)

TOTAL FRONT PLUS TOTAL REAR (kg): 2375.0
28. Is the test weight between the Max. Weight and the Min. Weight (See 20.2)?
   X 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
   
   RF: 896  LF: 895  RR: 948  LR: 945

30. Summary of test attitude
   30.1 AS DELIVERED:
   
   RF: 899  LF: 898  RR: 976  LR: 977
   
   AS TESTED:
   
   RF: 896  LF: 895  RR: 948  LR: 945
   
   FULLY LOADED:
   
   RF: 894  LF: 894  RR: 946  LR: 945

30.2 Is the “as tested” test attitude equal to or between the “fully loaded” and “as delivered” attitude?
   X Yes
   [] No, explain why not.

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 4/26/07
DATA SHEET 33

VEHICLE ACCELEROMETER LOCATION AND MEASUREMENT

Test Vehicle: 2006 Dodge Ram
Test Program: FMVSS 208 Compliance
Test Technician: Jamie Aide

<table>
<thead>
<tr>
<th>IMPACT ANGLE:</th>
<th>Zero Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>BELTED DUMMIES (YES/NO):</td>
<td>No</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>___ 5th female</td>
</tr>
<tr>
<td></td>
<td>_X 50th male</td>
</tr>
<tr>
<td>PASSENGER DUMMY:</td>
<td>___ 5th female</td>
</tr>
<tr>
<td></td>
<td>_X 50th male</td>
</tr>
</tbody>
</table>

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: Jamie Aide Date: 4/26/07
VEHICLE ACCELEROMETER LOCATION AND DATA SUMMARY

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 33
**VEHICLE ACCELEROMETER LOCATION AND MEASUREMENTS**

<table>
<thead>
<tr>
<th>DIMENSION</th>
<th>LENGTH (mm)</th>
<th>PRETEST VALUES</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (LH Rear Seat Xmbr)</td>
<td>498</td>
<td></td>
</tr>
<tr>
<td>B (RH Rear Seat Xmbr)</td>
<td>497</td>
<td></td>
</tr>
<tr>
<td>C (Engine Top)</td>
<td>4276</td>
<td></td>
</tr>
<tr>
<td>D (Engine Bottom)</td>
<td>4034</td>
<td></td>
</tr>
<tr>
<td>E (Caliper)</td>
<td>Right Side: 4083</td>
<td>Left Side: 4083</td>
</tr>
<tr>
<td>F (Left Caliper)</td>
<td>810</td>
<td></td>
</tr>
<tr>
<td>G (IP)</td>
<td>3445</td>
<td></td>
</tr>
<tr>
<td>H (Seat)</td>
<td>2429</td>
<td></td>
</tr>
<tr>
<td>J (Right Caliper)</td>
<td>810</td>
<td></td>
</tr>
<tr>
<td>K (Trunk)</td>
<td>987</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DIMENSION</th>
<th>LENGTH (mm)</th>
<th>POST TEST VALUES</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (LH Rear Seat Xmbr)</td>
<td>498</td>
<td></td>
</tr>
<tr>
<td>B (RH Rear Seat Xmbr)</td>
<td>497</td>
<td></td>
</tr>
<tr>
<td>C (Engine Top)</td>
<td>4341</td>
<td></td>
</tr>
<tr>
<td>D (Engine Bottom)</td>
<td>4009</td>
<td></td>
</tr>
<tr>
<td>E (Caliper)</td>
<td>Right Side: 4084</td>
<td>Left Side: 4082</td>
</tr>
<tr>
<td>F (Left Caliper)</td>
<td>741</td>
<td></td>
</tr>
<tr>
<td>G (IP)</td>
<td>3459</td>
<td></td>
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<tr>
<td>H (Seat)</td>
<td>2409</td>
<td></td>
</tr>
<tr>
<td>J (Right Caliper)</td>
<td>730</td>
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<tr>
<td>K (Trunk)</td>
<td>997</td>
<td></td>
</tr>
</tbody>
</table>
DATA SHEET 34
PHOTOGRAPHIC TARGETS

IMPACT ANGLE: Zero Degrees
BELTED DUMMIES (YES/NO): No
TEST SPEED: X 32 to 40 kmph _ 0 to 48 kmph _ 0 to 56 kmph
DRIVER DUMMY: _ 5th female X 50th male
PASSENGER DUMMY: _ 5th female X 50th male

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): 715 mm. This dimension was used due to the length of the truck cab.
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): 611 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): 612 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): 100 mm
Distance between circular targets on D2 (mm): 100 mm

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.

No, this form is complete.

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.

I certify that I have read and performed each instruction.

Signature:  
Date:  4/26/07
REFERENCE PHOTO TARGETS

CONCRETE BARRIER

MONORAIL

COVERED PHOTO PIT

LEFT SIDE VIEW

Figure 28 A
Figure 28 B
PRE-RUN STEERING COLUMN HIGH SPEED CAMERA VIEW

LEFT SIDE VIEW

Figure 28 C
# DATA SHEET 35
## CAMERA LOCATIONS

**Test Vehicle:** 2006 Dodge Ram  
**Test Program:** FMVSS 208 Compliance  
**NHTSA No.:** C60304  
**Test Date:** 4/26/07  
**Time:** 11:59 am  

<table>
<thead>
<tr>
<th>CAMERA NO.</th>
<th>VIEW</th>
<th>X (mm)</th>
<th>Y (mm)</th>
<th>Z (mm)</th>
<th>LENS (mm)</th>
<th>SPEED (fps)</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Real Time Left Side View</td>
<td></td>
<td></td>
<td></td>
<td>3</td>
<td>24</td>
</tr>
<tr>
<td>2</td>
<td>Left Side View (Barrier face to front seat backs)</td>
<td>860</td>
<td>-4200</td>
<td>1220</td>
<td>24</td>
<td>1000</td>
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<td>3</td>
<td>Left Side View (Driver)</td>
<td>1420</td>
<td>-6650</td>
<td>1510</td>
<td>35</td>
<td>1000</td>
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<tr>
<td>4</td>
<td>Left Side View (B-post aimed toward center of steering wheel)</td>
<td>6900</td>
<td>-4770</td>
<td>2150</td>
<td>50</td>
<td>1000</td>
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<tr>
<td>5</td>
<td>Left Side View (Steering Column)</td>
<td>1400</td>
<td>-4820</td>
<td>1270</td>
<td>25</td>
<td>1000</td>
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<tr>
<td>6</td>
<td>Left Side View (Steering Column)</td>
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<td>-4820</td>
<td>880</td>
<td>25</td>
<td>1000</td>
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<td>7</td>
<td>Right Side View (Overall)</td>
<td>2080</td>
<td>6840</td>
<td>1160</td>
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<td>1000</td>
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<td>8</td>
<td>Right Side View (Passenger)</td>
<td>1570</td>
<td>6410</td>
<td>1620</td>
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<td>1000</td>
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<td>9</td>
<td>Right Side View (Angle)</td>
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<td>10</td>
<td>Right Side View (Front door)</td>
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<td>5360</td>
<td>1090</td>
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<td>11</td>
<td>Front View Windshield</td>
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<td>2800</td>
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<td>12</td>
<td>Front View Driver</td>
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<td>-480</td>
<td>2250</td>
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<td>1000</td>
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<tr>
<td>13</td>
<td>Front View Passenger</td>
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<td>480</td>
<td>2250</td>
<td>24</td>
<td>1000</td>
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<tr>
<td>14</td>
<td>Overhead Barrier Impact View</td>
<td>1370</td>
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<td>5050</td>
<td>19</td>
<td>1000</td>
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<tr>
<td>15</td>
<td>Pit Camera Engine View</td>
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<td>0</td>
<td>-3160</td>
<td>24</td>
<td>1000</td>
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<tr>
<td>16</td>
<td>Pit Camera Fuel Tank View</td>
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<td>0</td>
<td>-3160</td>
<td>24</td>
<td>1000</td>
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</tbody>
</table>

*COORDINATES:  
+X - forward of impact plane  
+Y - right of monorail centerline  
+Z - above ground level
CAMERA POSITIONS FOR FMVSS 208

1. REAL TIME CAMERA
2. CONCRETE BARRIER
3. CONCRETE PAD
4. COVERED PHOTO PIT
5. MONORAIL
6. TOW ROAD
7. LEFT SIDE VIEW
8. TOP VIEW
9. CONCRETE BARRIER
10. COVERED PHOTO PIT
11. MONORAIL
12. CONCRETE BARRIER
13. COVERED PHOTO PIT
14. LEFT SIDE VIEW
15. CONCRETE BARRIER
16. COVERED PHOTO PIT
APPENDIX F

DUMMY POSITIONING PROCEDURES
FOR DRIVER TEST DUMMY CONFORMING TO SUBPART E OF PART 572

Test Vehicle: 2006 Dodge RAM
Test Program: FMVSS 208 Compliance
Test Technician: Joe Fleck

<table>
<thead>
<tr>
<th>IMPACT ANGLE:</th>
<th>Zero Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>BELTED DUMMIES (YES/NO):</td>
<td>No</td>
</tr>
<tr>
<td>TEST SPEED:</td>
<td>X 32 to 40 kmph</td>
</tr>
<tr>
<td>DRIVER DUMMY:</td>
<td>___ 5th female</td>
</tr>
<tr>
<td>PASSENGER DUMMY:</td>
<td>___ 5th female</td>
</tr>
</tbody>
</table>

X 1. 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

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. (S20.1.8.2)
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. (S20.1.9.3)
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 mid-fore-aft position, full down height position and the seat cushion angle. (S8.1.2)

X 5. 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 21° on Seat Back Frame
Tested seat back angle 20.6° on Seat Back Frame

X 6. 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 7. 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 with uppermost as “0”
Tested anchorage position 2nd with uppermost as “0” (Unbelted Test)
8. Place the adjustable accelerator pedal in the full forward position. 
N/A - the accelerator pedal is not adjustable.

9. 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.

10. Place 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 and the upper torso rests against the seat back. (S10.4.1.1 & S10.4.1.2)

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)

157 horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)

132 vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)

24.2° 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)

13.2 Is the head level within ± 0.5°? (S10.1)

Yes, record the following, then go to 15. No, go to 13.3

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 14. No, go to 13.5

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 14 (The neck bracket was moved one notch)
   ___ 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°)

__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. Can the right foot be placed on the accelerator?
   X Yes, go to 15.1 and skip 15.2
   __ No, go to 15.2

   __15.1. To the extent practicable keep the right thigh and the leg in a vertical plane (S10.5) while resting the foot on the undepressed accelerator pedal with the rearmost point of the heel on the floor pan in the plane of the pedal. (S10.6.1.1)

   __15.2 Initially set the foot perpendicular to the leg and then place it as far forward as possible in the direction of the pedal centerline with the rearmost point of the heel resting on the floor pan. (S10.6.1.1)

   __15.2.1 Move the adjustable pedal to its most rearward position or until the right foot is flat on the pedal, whichever occurs first. (S10.6.1.1)
      ___ N/A - the accelerator pedal is not adjustable

__16. Does the vehicle have a foot rest?
   __ Yes, go to 16.1
   X No, go to 16.1.2

   __16.1 With the left thigh and leg in a vertical plane, place the foot on the foot rest with the heel resting on the floor pan. (S10.6.1.2)

   __16.1.1 Is the left foot elevated above the right foot?
      ___ Yes, go to 16.1.2 and position the foot off the foot rest
      ___ No, go to 17
16.1.2 Check the ONLY one of the following that applies

__The foot reaches the toeboard without adjusting the foot or leg. To the extent practicable keep the left thigh and the leg in a vertical longitudinal plane (S10.5) and place the foot on the toeboard, skip 16.1.3 (S10.6.1.2)

__The foot reaches the toeboard but contacts the brake or clutch pedal and must be rotated to avoid pedal contact. To the extent practicable keep the left thigh and the leg in a vertical longitudinal plane (S10.5) and place the foot on the toeboard. The foot was rotated about the leg to avoid pedal contact, skip 16.1.3 (S10.6.1.2)

__The foot reaches the toeboard but contacts the brake or clutch pedal and the foot and leg must be rotated to avoid pedal contact. To the extent practicable keep the left thigh and the leg in a vertical longitudinal plane (S10.5) and place the foot on the toeboard. The foot was rotated about the leg and the leg was rotated outboard about the hip the minimum distance necessary to avoid pedal contact, skip 16.1.3 (S10.6.1.2)

X N/A - the foot does not reach the toeboard, go to 16.1.3

16.1.3 Check the ONLY one of the following that applies

X The foot did not contact the brake or clutch pedal. To the extent practicable keep the left thigh and the leg in a vertical longitudinal plane (S10.5). Set the foot perpendicular to the leg and place it as far forward as possible with the heel resting on the floor pan. (S10.6.1.2)

__The foot did contact the brake or clutch pedal and the foot was rotated to avoid contact. To the extent practicable keep the left thigh and the leg in a vertical longitudinal plane (S10.5). Set the foot perpendicular to the leg and place it as far forward as possible with the heel resting on the floor pan and rotate the foot the minimum amount to avoid pedal contact. (S10.6.1.2)

__The foot did contact the brake or clutch pedal and the foot was rotated about the leg and the leg was rotated outboard about the hip the minimum distance necessary to avoid pedal contact. Set the foot perpendicular to the leg and place it as far forward as possible with the heel resting on the floor pan and rotate the foot about the leg and the thigh and leg outboard about the hip the minimum distance necessary to avoid pedal contact. (S10.6.1.2)

X 17. Place the right upper arm adjacent to the torso with the centerline as close to a vertical plane as possible. (S10.2.1)

X 18. Is the driver seat belt used for this test?
   __Yes, continue
   X No, go to 19

__18.1 Fasten the seat belt around the dummy.

__18.2 Remove all slack from the lap belt portion. (S10.9)
18.3 Pull the upper torso webbing out of the retractor and allow it to retract; repeat this four times. (S10.9)

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

18.5 Is the belt system equipped with a tension-relieving device?
   Yes, continue
   No, go to 19

18.6 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).

19. Place the left upper arm adjacent to the torso with the centerline as close to a vertical plane as possible. (S10.2.1)

20. Place the right hand with the palm in contact with the steering wheel at the rim’s horizontal centerline and with the thumb over the steering wheel. (S10.3.1)

21. Place the left hand with the palm in contact with the steering wheel at the rim’s horizontal centerline and with the thumb over the steering wheel. (S10.3.1)

22. Tape the thumb of each hand to the steering wheel by using masking tape with a width of 0.25 inch. The length of the tape shall only be enough to go around the thumb and steering wheel one time.

REMARKS:

I certify that I have read and performed each instruction.

Signature: ___________________________ Date: 4/26/07
APPENDIX F
DUMMY POSITIONING PROCEDURES FOR PASSENGER TEST DUMMY CONFORMING
TO SUBPART E OF PART 572

Test Vehicle: 2006 Dodge RAM
Test Program: FMVSS 208 Compliance
Test Technician: Joe Fleck
NHTSA No.: C60304
Test Date: 4/26/07

<table>
<thead>
<tr>
<th>IMPACT ANGLE:</th>
<th>Zero Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>BELTED DUMMIES (YES/NO):</td>
<td>No</td>
</tr>
<tr>
<td>TEST SPEED:</td>
<td>X 32 to 40 kmph</td>
</tr>
<tr>
<td>DRIVER DUMMY:</td>
<td>__ 5th female</td>
</tr>
<tr>
<td>PASSENGER DUMMY:</td>
<td>__ 5th female</td>
</tr>
</tbody>
</table>

1. The seat is a bench seat for which the adjustments have already been made for the driver and there are no independent adjustments that can be made for the passenger. Go to 7.

X N/A - the passenger seat adjusts independently of the driver seat.

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. (S20.1.8.2)

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. (S20.1.9.3)

X N/A - No independent fore-aft seat cushion adjustment

5. Use the seat markings determined during the completion of Data Sheet 14 to set the mid-fore-aft position, full down height position and the seat cushion angle. (S8.1.2)

6. 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 21° on Seat Back Frame
Tested seat back angle 20.7° on Seat Back Frame

7. 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)

X N/A - No head restraint adjustment

Test Vehicle: 2006 Dodge RAM
Test Program: FMVSS 208 Compliance
Test Technician: Joe Fleck
NHTSA No.: C60304
Test Date: 4/26/07

120
8. 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 with uppermost as “0”
   Tested anchorage position  2nd with uppermost as “0” (Unbelted Test)
   __N/A - the seat does not have a fore-aft adjustment

9. Place the dummy in the seat such that the midsagittal plane is coincident with the longitudinal seat cushion markings as determined in item 2.19 of Data Sheet 14 and the upper torso rests against the seat back. (S10.4.1.1 & S10.4.1.2)

10. Rest the thighs on the seat cushion. (S10.5)

11. 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)
   .078 horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
   .171 vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
   23.2° pelvic angle (20° to 25°)

12. Is the head level within ± 0.5°? (S10.1)
   __Yes, go to 13
   __No, go to 12.1
   __12.1 Adjust the position of the H-point. (S10.1 and S10.4.2.1)

   __12.2 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)

   __12.3 Adjust the pelvic angle. (S10.1)

   __12.4 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)
12.5 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 (The neck bracket was moved four notches)

- 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)

X 13. Set the distance between the outboard knee clevis flange surfaces at 10.6 inches.

10.6” measured distance (10.6 inches) (S10.5)

X 14. Check the only one of the following that applies:

- To the extent practicable keep the left thigh and leg in a vertical plane and the right thigh and leg in a vertical plane, place the feet on the toeboard with the heels resting on the floor pan as close as possible to the intersection of the floor pan and toeboard.

- The feet cannot be placed flat on the toeboard. To the extent practicable keep the left thigh and leg in a vertical plane and the right thigh and leg in a vertical plane, set the feet perpendicular to the legs and place them as far forward as possible with the heels resting on the floor pan.

X The vehicle has a wheelhouse projection. To the extent practicable keep the left thigh and leg in a vertical plane and the right thigh and leg in a vertical plane, set the feet perpendicular to the legs and place them as far forward as possible with the heel resting on the floor pan. Do not set the feet on the wheelhouse projection.

- The vehicle has a wheelhouse projection and the feet cannot be placed on the toeboard. To the extent practicable keep the left thigh and leg in a vertical plane and the right thigh and leg in a vertical plane, set the feet perpendicular to the legs and place them as far forward as possible with the heel resting on the floor pan. Do not set the feet on the wheelhouse projection.

X 15. Place the left upper arm in contact with the seat back and side of the torso. (S10.2.2)

X 16. Is the passenger seat belt used for this test?

- Yes, continue

X No, go to 17

- 16.1 Fasten the seat belt around the dummy.

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

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

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

___ pound load applied
16.5 Is the belt system equipped with a tension relieving device?
   __Yes, continue
   __No, go to 17

16.6 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.

17. Place the right upper arm in contact with the seat back and side of the torso. (S10.2.2)

18. 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)

19. 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)

REMARKS:

I certify that I have read and performed each instruction.

Signature: ___________________________ Date: 4/26/07
DATA SHEET 37

DUMMY MEASUREMENTS

Test Vehicle: 2006 Dodge Ram
Test Program: FMVSS 208 Compliance
Test Technician: Joe Fleck
NHTSA No.: C60304
Test Date: 4/26/07

DUMMY MEASUREMENTS FOR FRONT SEAT OCCUPANTS

CD  Chest to Dash
CS  Chest to Steering Wheel Hub
HH  Head to Header
HW  Head to Windshield
HZ  Head to Roof
KDA  Knee to Dash Angle
KDL  Left Knee to Dash
KDR  Right Knee to Dash
NA  Nose to Rim Angle
NR  Nose to Rim
PA  Pelvic Angle
RA  Rim to Abdomen
SA  Seat Back Angle
SCA  Steering Column Angle
SH  Striker to H-Point
SK  Striker to Knee
ST  Striker to Head
SWA  Steering Wheel Angle
TA  Tibial Angle
WA  Windshield Angle

AD  Arm to Door
HD  H-Point to Door
HR  Head to Side Header
HS  Head to Side Window
KK  Knee to Knee
SHY  Striker to H-Point (Y Axis)

Test Vehicle: 2006 Dodge Ram
Test Program: FMVSS 208 Compliance
Test Technician: Joe Fleck
NHTSA No.: C60304
Test Date: 4/26/07
# DATA SHEET 37

## DUMMY MEASUREMENTS

**Test Vehicle:** 2006 Dodge Ram  
**Test Program:** FMVSS 208 Compliance  
**Test Technician:** Joe Fleck  
**NHTSA No.:** C60304  
**Test Date:** 4/26/07

## TEST DUMMY POSITION MEASUREMENTS

<table>
<thead>
<tr>
<th>Code</th>
<th>Measurement Description</th>
<th>Driver SN 403</th>
<th>Passenger SN 401</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>31.1</td>
<td></td>
</tr>
<tr>
<td>SWA</td>
<td>Steering Wheel Angle</td>
<td>66.5</td>
<td></td>
</tr>
<tr>
<td>SCA</td>
<td>Steering Column Angle</td>
<td>24.0</td>
<td></td>
</tr>
<tr>
<td>SA</td>
<td>Seat Back Angle (On Headrest)</td>
<td>19.8</td>
<td>21.4</td>
</tr>
<tr>
<td>HZ</td>
<td>Head to Roof (Z)</td>
<td>235</td>
<td>239</td>
</tr>
<tr>
<td>HH</td>
<td>Head to Header</td>
<td>434</td>
<td>22.8</td>
</tr>
<tr>
<td>HW</td>
<td>Head to Windshield</td>
<td>691</td>
<td>0.0</td>
</tr>
<tr>
<td>HR</td>
<td>Head to Side Header (Y)</td>
<td>188</td>
<td>188</td>
</tr>
<tr>
<td>NR</td>
<td>Nose to Rim</td>
<td>431</td>
<td>15.8</td>
</tr>
<tr>
<td>CD</td>
<td>Chest to Dash</td>
<td>575</td>
<td>576</td>
</tr>
<tr>
<td>CS</td>
<td>Chest to Steering Hub</td>
<td>358</td>
<td>11.9</td>
</tr>
<tr>
<td>RA</td>
<td>Rim to Abdomen</td>
<td>204</td>
<td>0.0</td>
</tr>
<tr>
<td>KDL</td>
<td>Left Knee to Dash</td>
<td>153</td>
<td>14.1</td>
</tr>
<tr>
<td>KDR</td>
<td>Right Knee to Dash</td>
<td>128</td>
<td>148</td>
</tr>
<tr>
<td>PA</td>
<td>Pelvic Angle</td>
<td>24.2</td>
<td>23.2</td>
</tr>
<tr>
<td>TA</td>
<td>Tibia Angle</td>
<td>51.5</td>
<td>52.6</td>
</tr>
<tr>
<td>KK</td>
<td>Knee to Knee (Y)</td>
<td>290</td>
<td>255</td>
</tr>
<tr>
<td>SK</td>
<td>Striker to Knee</td>
<td>780</td>
<td>87.5</td>
</tr>
<tr>
<td>ST</td>
<td>Striker to Head</td>
<td>701</td>
<td>22.8</td>
</tr>
<tr>
<td>SH</td>
<td>Striker to H-Point</td>
<td>374</td>
<td>93.4</td>
</tr>
<tr>
<td>SHY</td>
<td>Striker to H-Point (Y)</td>
<td>289</td>
<td>288</td>
</tr>
<tr>
<td>HS</td>
<td>Head to Side Window</td>
<td>316</td>
<td>338</td>
</tr>
<tr>
<td>HD</td>
<td>H-Point to Door (Y)</td>
<td>171</td>
<td>177</td>
</tr>
<tr>
<td>AD</td>
<td>Arm to Door (Y)</td>
<td>133</td>
<td>132</td>
</tr>
<tr>
<td>AA</td>
<td>Ankle to Ankle</td>
<td>272</td>
<td>184</td>
</tr>
</tbody>
</table>
SEAT BELT POSITIONING DATA

FRONT VIEW OF DUMMY

SEAT BELT POSITIONING MEASUREMENTS

<table>
<thead>
<tr>
<th>Measurement Description</th>
<th>Units</th>
<th>Driver</th>
<th>Passenger</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBU - Top surface of reference to belt upper edge</td>
<td>mm</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>PBL - Top surface of reference to belt lower edge</td>
<td>mm</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
DATA SHEET 38
CRASH TEST

Test Vehicle: 2006 Dodge Ram  NHTSA No.: C60304
Test Program: FMVSS 208 Compliance  Test Date: 4/26/07
Test Technician: Joe Fleck

<table>
<thead>
<tr>
<th>IMPACT ANGLE:</th>
<th>Zero Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>BELTED DUMMIES (YES/NO):</td>
<td>No</td>
</tr>
<tr>
<td>TEST SPEED:</td>
<td>X 32 to 40 kmph</td>
</tr>
<tr>
<td>DRIVER DUMMY:</td>
<td>5th female</td>
</tr>
<tr>
<td>PASSENGER DUMMY:</td>
<td>5th female</td>
</tr>
</tbody>
</table>

1. Vehicle underbody painted
2. The speed measuring devices are in place and functioning.
3. The speed measuring devices are _1.0_ m from the barrier (spec. 1.5m) and _30_ 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.

<table>
<thead>
<tr>
<th>240 kpa front left tire</th>
<th>240 kpa front right tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>240 kpa specified on tire placard or in owner information</td>
<td>240 kpa specified on tire placard or in owner information</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>240 kpa rear left tire</th>
<th>240 kpa rear right tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>240 kpa specified on tire placard or in owner information</td>
<td>240 kpa specified on tire placard or in owner information</td>
</tr>
</tbody>
</table>

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 39.9 kmph
17. Vehicle rebound from the barrier 31 cm
18. Describe whether the doors open after the test and what method is used to open the doors.
   - Left Front Door: Door remained closed and latched; Door opened without tools
   - Right Front Door: Door remained closed and latched; Door opened without tools
   - Left Rear Door: Door remained closed and latched; Door opened without tools
   - Right Rear Door: Door remained closed and latched; Door opened without tools
19. Describe the contact points of the dummy with the interior of the vehicle.

- Driver Dummy: Head to Air Bag and Windshield; Chest to Air Bag; Knees to Knee Bolster
- Passenger Dummy: Head to Air Bag, Windshield, and A-pillar; Chest to Air Bag; Knees to Glove Box

REMARKS:

I certify that I have read and performed each instruction.

Signature: ______________________ Date: 4/26/07
### Accident Investigation Measurements

**Test Vehicle:** 2006 Dodge Ram  
**Test Program:** FMVSS 208 Compliance  
**Test Technician:** Jamie Aide  
**NHTSA No.:** C60304  
**Test Date:** 4/26/07

<table>
<thead>
<tr>
<th>IMPACT ANGLE:</th>
<th>Zero Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>BELTED DUMMIES (YES/NO):</td>
<td>No</td>
</tr>
<tr>
<td>TEST SPEED:</td>
<td><strong>X</strong> 32 to 40 kmph</td>
</tr>
<tr>
<td>DRIVER DUMMY:</td>
<td><em>5th</em> female</td>
</tr>
<tr>
<td>PASSENGER DUMMY:</td>
<td><em>5th</em> female</td>
</tr>
</tbody>
</table>

**Vehicle Year/Make/Model/Body Style:** 2006 Dodge Ram Truck

<table>
<thead>
<tr>
<th>VIN:</th>
<th>1D7HA16K56J146806</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheelbase:</td>
<td>3067 mm</td>
</tr>
<tr>
<td>Build Date:</td>
<td>11/05</td>
</tr>
<tr>
<td>Vehicle Size Category:</td>
<td>5</td>
</tr>
<tr>
<td>Test Weight:</td>
<td>2375.0 kg</td>
</tr>
<tr>
<td>Front Overhang:</td>
<td>985 mm</td>
</tr>
<tr>
<td>Overall Width:</td>
<td>2017 mm</td>
</tr>
<tr>
<td>Overall Length Center:</td>
<td>5259 mm</td>
</tr>
</tbody>
</table>

**Accelerometer Data**

<table>
<thead>
<tr>
<th>Location:</th>
<th>As per measurements on Data Sheet 33</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linearity:</td>
<td>&gt;99.9%</td>
</tr>
<tr>
<td>Integration Algorithm:</td>
<td>Trapezoidal</td>
</tr>
<tr>
<td>Vehicle Impact Speed:</td>
<td>39.9 kmph</td>
</tr>
<tr>
<td>Time of Separation:</td>
<td>90.1ms</td>
</tr>
<tr>
<td>Velocity Change:</td>
<td>44.4 kmph</td>
</tr>
</tbody>
</table>
CRUSH PROFILE

Collision Deformation Classification: 12FDEW6
Midpoint of Damage: Vehicle Longitudinal Centerline
Damage Region Length (mm): 1755
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>5065</td>
<td>4896</td>
<td>169</td>
</tr>
<tr>
<td>C2</td>
<td>Crush zone 2 at left side</td>
<td>mm</td>
<td>5184</td>
<td>4942</td>
<td>242</td>
</tr>
<tr>
<td>C3</td>
<td>Crush zone 3 at left side</td>
<td>mm</td>
<td>5243</td>
<td>4943</td>
<td>300</td>
</tr>
<tr>
<td>C4</td>
<td>Crush zone 4 at right side</td>
<td>mm</td>
<td>5242</td>
<td>4938</td>
<td>304</td>
</tr>
<tr>
<td>C5</td>
<td>Crush zone 5 at right side</td>
<td>mm</td>
<td>5187</td>
<td>4946</td>
<td>241</td>
</tr>
<tr>
<td>C6</td>
<td>Crush zone 6 at right side</td>
<td>mm</td>
<td>5067</td>
<td>4898</td>
<td>169</td>
</tr>
</tbody>
</table>

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]
Date: 4/26/07
**DATA SHEET 41**  
**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</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 5th female, X 50th male</td>
</tr>
<tr>
<td>PASSENGER DUMMY</td>
<td>X 5th female, X 50th male</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 trim

   1.2 Mark the longitudinal centerline of the windshield

   1.3 Measure pre-crash A, B, and C for the left side and record in the chart below.

   1.4 Measure pre-crash C, D, and E for the right side and record in the chart below.

   1.5 Measure from the edge of the retainer or molding to the edge of the windshield.
      
      Dimension G (mm): 24 mm

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?
      
      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%.
      
      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%?
      
      Yes, Fail
      No, Pass

   2.6 Is total left side percent retention less than 75%?
      
      Yes, Fail
      No, Pass
## 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><strong>Left Side</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>685</td>
<td>685</td>
<td>100%</td>
</tr>
<tr>
<td>B</td>
<td>813</td>
<td>813</td>
<td>100%</td>
</tr>
<tr>
<td>C</td>
<td>856</td>
<td>856</td>
<td>100%</td>
</tr>
<tr>
<td>Total</td>
<td>1498</td>
<td>1498</td>
<td>100%</td>
</tr>
<tr>
<td><strong>Right Side</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>685</td>
<td>685</td>
<td>100%</td>
</tr>
<tr>
<td>E</td>
<td>813</td>
<td>813</td>
<td>100%</td>
</tr>
<tr>
<td>F</td>
<td>856</td>
<td>856</td>
<td>100%</td>
</tr>
<tr>
<td>Total</td>
<td>1498</td>
<td>1498</td>
<td>100%</td>
</tr>
</tbody>
</table>

Indicate area of mounting failure. NONE

**FRONT VIEW OF WINDSHIELD**

**INDICATE WIDTH OF MOLDING**

ZERO POINT (0,0)

**REMARKS:**

I certify that I have read and performed each instruction.

Signature: Jamie Curtis          Date: 4/26/07
DATA SHEET 42
WINDSHIELD ZONE INTRUSION (FMVSS 219)

Test Vehicle: 2006 Dodge Ram
Test Program: FMVSS 208 Compliance
Test Technician: Jamie Aide

NHTSA No.: C60304
Test Date: 4/26/07

<table>
<thead>
<tr>
<th>IMPACT ANGLE:</th>
<th>Zero Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>BELTED DUMMIES (YES/NO):</td>
<td>No</td>
</tr>
<tr>
<td>TEST SPEED:</td>
<td>X 32 to 40 kmph</td>
</tr>
<tr>
<td>DRIVER DUMMY:</td>
<td>5th female</td>
</tr>
<tr>
<td>PASSENGER DUMMY:</td>
<td>5th female</td>
</tr>
</tbody>
</table>

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>1370</td>
</tr>
<tr>
<td>B</td>
<td>mm</td>
<td>477</td>
</tr>
<tr>
<td>C</td>
<td>mm</td>
<td>1712</td>
</tr>
<tr>
<td>D</td>
<td>mm</td>
<td>813</td>
</tr>
<tr>
<td>E</td>
<td>mm</td>
<td>557</td>
</tr>
<tr>
<td>F</td>
<td>mm</td>
<td>395</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>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</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>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td></td>
</tr>
</tbody>
</table>

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature] Date: 4/26/07
DATA SHEET 43
FUEL SYSTEM INTEGRITY (FMVSS 301)

Test Vehicle: 2006 Dodge Ram
Test Program: FMVSS 208 Compliance
Test Technician: Daniel Sienko

NHTSA No.: C60304
Test Date: 4/26/07

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>
</tr>
</thead>
<tbody>
<tr>
<td>0° to 90°</td>
<td>118</td>
<td>300</td>
<td>0.0</td>
</tr>
<tr>
<td>90° to 180°</td>
<td>117</td>
<td>300</td>
<td>0.0</td>
</tr>
<tr>
<td>180° to 270°</td>
<td>117</td>
<td>300</td>
<td>0.0</td>
</tr>
<tr>
<td>270° to 360°</td>
<td>114</td>
<td>300</td>
<td>0.0</td>
</tr>
</tbody>
</table>

Test Vehicle: 2006 Dodge Ram
Test Program: FMVSS 208 Compliance
NHTSA No.: C60304
Test Date: 4/26/07
APPENDIX A

CRASH TEST DATA
<table>
<thead>
<tr>
<th>Figure No.</th>
<th>Description</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Driver Head X Acceleration vs. Time</td>
<td>A-1</td>
</tr>
<tr>
<td>2</td>
<td>Driver Head Y Acceleration vs. Time</td>
<td>A-1</td>
</tr>
<tr>
<td>3</td>
<td>Driver Head Z Acceleration vs. Time</td>
<td>A-1</td>
</tr>
<tr>
<td>4</td>
<td>Driver Head Resultant Acceleration vs. Time</td>
<td>A-1</td>
</tr>
<tr>
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25 MPH FRONTAL UNBELTED
2006 DODGE RAM (C60304)
Test Date: 04/26/2007
Speed: 24.8 mph (39.9 km/h)

Max: 26.4 G's
Tmax: 137.2 ms
Min: -31.6 G's
Tmin: 117.3 ms
CFC 1000

Max: 5.9 G's
Tmax: 137.5 ms
Min: -2.5 G's
Tmin: 64.5 ms
CFC 1000

Max: 19.8 G's
Tmax: 96.9 ms
Min: -13.9 G's
Tmin: 45.2 ms
CFC 1000

Max: 33.0 G's
Tmax: 117.4 ms
Min: 0.0 G's
Tmin: 0.0 ms
CFC 1000
25 MPH FRONTAL UNBELTED
2006 DODGE RAM (C60304)

Test Date: 04/26/2007
Speed: 24.8 mph (39.9 km/h)

- DRIVER HEAD X Velocity (kph) vs TIME (ms)
  - Max: 41.4 kph
  - Tmax: 54.5 ms
  - Min: -2.1 kph
  - Tmin: 298.6 ms
  - CFC 180

- DRIVER HEAD Y Velocity (kph) vs TIME (ms)
  - Max: 1.1 kph
  - Tmax: 207.4 ms
  - Min: -0.3 kph
  - Tmin: 131.1 ms
  - CFC 180

- DRIVER HEAD Z Velocity (kph) vs TIME (ms)
  - Max: 38.3 kph
  - Tmax: 300.0 ms
  - Min: -4.0 kph
  - Tmin: 54.6 ms
  - CFC 180
25 MPH FRONTAL UNBELTED
2006 DODGE RAM (C60304)

Test Date: 04/26/2007
Speed: 24.8 mph (39.9 km/h)

Max: 20.3 Nm
Tmax: 144.6 ms
Min: -3.9 Nm
Tmin: 259.6 ms
CFC 600

Max: 41.8 Nm
Tmax: 68.9 ms
Min: -56.7 Nm
Tmin: 148.8 ms
CFC 600

Max: 1.2 Nm
Tmax: 38.6 ms
Min: -5.2 Nm
Tmin: 192.1 ms
CFC 600

Max: 58.9 Nm
Tmax: 147.5 ms
Min: 0.1 Nm
Tmin: 0.0 ms
CFC 600
25 MPH FRONTAL UNBELTED
2006 DODGE RAM (C60304)
Test Date: 04/26/2007
Speed: 24.8 mph (39.9 km/h)

Max: 1.7 G's
Tmax: 148.9 ms
Min: -19.0 G's
Tmin: 68.7 ms
CFC 180

Max: 3.3 G's
Tmax: 42.6 ms
Min: -2.8 G's
Tmin: 44.1 ms
CFC 180

Max: 8.4 G's
Tmax: 139.8 ms
Min: -15.5 G's
Tmin: 43.7 ms
CFC 180

Max: 19.1 G's
Tmax: 68.7 ms
Min: 0.0 G's
Tmin: 0.0 ms
CFC 180
25 MPH FRONTAL UNBELTED
2006 DODGE RAM (C60304)

Test Date: 04/26/2007
Speed: 24.8 mph (39.9 km/h)

Max: 203.9 N
Tmax: 24.9 ms
Min: -6338.3 N
Tmin: 47.1 ms
CFC 600

No Valid Data After Approximately 69 msec.

Max: 579.6 N
Tmax: 153.1 ms
Min: -7688.6 N
Tmin: 45.5 ms
CFC 600
25 MPH FRONTAL UNBELTED
2006 DODGE RAM (C60304)

Test Date: 04/26/2007
Speed: 24.8 mph (39.9 km/h)

PASSENGER HEAD X (G's) vs TIME (ms)
Max: 5.8 G's
Tmax: 62.5 ms
Min: -118.7 G's
Tmin: 89.9 ms
CFC 1000

PASSENGER HEAD Y (G's) vs TIME (ms)
Max: 96.9 G's
Tmax: 92.5 ms
Min: -17.4 G's
Tmin: 91.9 ms
CFC 1000

PASSENGER HEAD Z (G's) vs TIME (ms)
Max: 59.5 G's
Tmax: 90.9 ms
Min: -46.7 G's
Tmin: 92.3 ms
CFC 1000

PASSENGER HEAD Resultant (G's) vs TIME (ms)
Max: 126.5 G's
Tmax: 89.9 ms
Min: 0.1 G's
Tmin: 29.7 ms
CFC 1000
25 MPH FRONTAL UNBELTED
2006 DODGE RAM (C60304)
Test Date: 04/26/2007
Speed: 24.8 mph (39.9 km/h)

PASSENGER HEAD X Velocity (kph) vs TIME (ms)
Max: 44.4 kph
Tmax: 72.7 ms
Min: -8.1 kph
Tmin: 208.9 ms
CFC 180

PASSENGER HEAD Y Velocity (kph) vs TIME (ms)
Max: 1.3 kph
Tmax: 257.4 ms
Min: -1.2 kph
Tmin: 91.9 ms
CFC 180

PASSENGER HEAD Z Velocity (kph) vs TIME (ms)
Max: 31.5 kph
Tmax: 300.0 ms
Min: -5.3 kph
Tmin: 62.1 ms
CFC 180
25 MPH FRONTAL UNBELTED
2006 DODGE RAM (C60304)

Test Date: 04/26/2007
Speed: 24.8 mph (39.9 km/h)

PASSENGER NECK FX (N) vs TIME (ms)
Max: 1186.2 N
Tmax: 92.0 ms
Min: -426.7 N
Tmin: 136.6 ms
CFC 1000

PASSENGER NECK FY (N) vs TIME (ms)
Max: 87.6 N
Tmax: 163.9 ms
Min: -144.9 N
Tmin: 217.8 ms
CFC 1000

PASSENGER NECK FZ (N) vs TIME (ms)
Max: 1133.7 N
Tmax: 136.2 ms
Min: -2136.1 N
Tmin: 92.0 ms
CFC 1000

PASSENGER NECK FResultant (N) vs TIME (ms)
Max: 2443.4 N
Tmax: 92.0 ms
Min: 2.5 N
Tmin: 0.0 ms
CFC 1000
25 MPH FRONTAL UNBELTED
2006 DODGE RAM (C60304)

Test Date: 04/26/2007
Speed: 24.8 mph (39.9 km/h)

PASSENGER CHEST X (G's) vs TIME (ms)
Max: 2.8 G's
Tmax: 165.5 ms
Min: -30.8 G's
Tmin: 88.5 ms
CFC 180

PASSENGER CHEST Y (G's) vs TIME (ms)
Max: 3.4 G's
Tmax: 82.1 ms
Min: -3.2 G's
Tmin: 92.6 ms
CFC 180

PASSENGER CHEST Z (G's) vs TIME (ms)
Max: 31.0 G's
Tmax: 92.2 ms
Min: -15.1 G's
Tmin: 52.3 ms
CFC 180

PASSENGER CHEST Resultant (G's) vs TIME (ms)
Max: 38.4 G's
Tmax: 91.8 ms
Min: 0.1 G's
Tmin: 0.0 ms
CFC 180
25 MPH FRONTAL UNBELTED
2006 DODGE RAM (C60304)

Test Date: 04/26/2007
Speed: 24.8 mph (39.9 km/h)

Max: 39.9 kph
Tmax: 0.0 ms
Min: 0.8 kph
Tmin: 130.1 ms
CFC 180

Max: 0.0 kph
Tmax: 17.4 ms
Min: -1.9 kph
Tmin: 149.8 ms
CFC 180

Max: 13.6 kph
Tmax: 300.0 ms
Min: -10.3 kph
Tmin: 70.2 ms
CFC 180

Max: 2.4 mm
Tmax: 60.4 ms
Min: -4.1 mm
Tmin: 109.6 ms
CFC 600
25 MPH FRONTAL UNBELTED
2006 DODGE RAM (C60304)

Test Date: 04/26/2007
Speed: 24.8 mph (39.9 km/h)

Max: 576.3 N
Tmax: 132.5 ms
Min: -5424.5 N
Tmin: 64.8 ms
CFC 600

Max: 1049.1 N
Tmax: 150.9 ms
Min: -4840.8 N
Tmin: 45.1 ms
CFC 600
25 MPH FRONTAL UNBELTED
2006 DODGE RAM (C60304)

Test Date: 04/26/2007
Speed: 24.8 mph (39.9 km/h)

Drv. nij (NTF) () vs TIME (ms)
Max: 0.2
Tmax: 98.0 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600

Drv. nij (NTE) () vs TIME (ms)
Max: 0.0
Tmax: 9.2 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600

Drv. nij (NCF) () vs TIME (ms)
Max: 0.3
Tmax: 139.2 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600

Drv. nij (NCE) () vs TIME (ms)
Max: 0.5
Tmax: 145.7 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600
25 MPH FRONTAL UNBELTED
2006 DODGE RAM (C60304)

Test Date: 04/26/2007
Speed: 24.8 mph (39.9 km/h)

Max: 35.8 Nm
Tmax: 123.5 ms
Min: -43.3 Nm
Tmin: 147.7 ms
CFC 600

Max: 5.8 Nm
Tmax: 55.4 ms
Min: -40.3 Nm
Tmin: 170.9 ms
CFC 600
25 MPH FRONTAL UNBELTED
2006 DODGE RAM (C60304)

Test Date: 04/26/2007
Speed: 24.8 mph (39.9 km/h)

TOP OF ENGINE X (G's) vs TIME (ms)
Max: 0.2 G's
Tmax: 0.0 ms
Min: -63.1 G's
Tmin: 25.0 ms
CFC 60

No Valid Data After
Approximately 25 msec.

TOP OF ENGINE X Velocity (kph) vs TIME (ms)
Max: 39.9 kph
Tmax: 0.0 ms
Min: 28.8 kph
Tmin: 25.0 ms
CFC 180

No Valid Data After
Approximately 25 msec.

BOTTOM OF ENGINE X (G's) vs TIME (ms)
Max: 9.0 G's
Tmax: 37.3 ms
Min: -48.1 G's
Tmin: 21.5 ms
CFC 60

BOTTOM OF ENGINE X Velocity (kph) vs TIME (ms)
Max: 39.9 kph
Tmax: 0.0 ms
Min: -5.6 kph
Tmin: 112.5 ms
CFC 180
2006 DODGE RAM (C60304)

Test Date: 04/26/2007
Speed: 24.8 mph (39.9 km/h)

LEFT BRAKE CALIPER X (G's) vs TIME (ms)
Max: 10.4 G's
Tmax: 21.9 ms
Min: -53.0 G's
Tmin: 14.9 ms
CFC 60

LEFT BRAKE CALIPER X Velocity (kph) vs TIME (ms)
Max: 39.9 kph
Tmax: 0.0 ms
Min: -1.0 kph
Tmin: 193.1 ms
CFC 180

RIGHT BRAKE CALIPER X (G's) vs TIME (ms)
Max: 13.1 G's
Tmax: 22.1 ms
Min: -59.7 G's
Tmin: 14.9 ms
CFC 60

RIGHT BRAKE CALIPER X Velocity (kph) vs TIME (ms)
Max: 39.9 kph
Tmax: 0.0 ms
Min: -2.5 kph
Tmin: 121.0 ms
CFC 180
2006 DODGE RAM (C60304)

Test Date: 04/26/2007
Speed: 24.8 mph (39.9 km/h)

BARRIER FORCE - LOWER LEFT (KN) vs TIME (ms)
Max: 4.6 KN
Tmax: 2.9 ms
Min: -144.7 KN
Tmin: 11.2 ms
CFC 60

BARRIER FORCE - LOWER CENTER (KN) vs TIME (ms)
Max: 0.7 KN
Tmax: 94.4 ms
Min: -35.7 KN
Tmin: 8.4 ms
CFC 60

BARRIER FORCE - LOWER RIGHT (KN) vs TIME (ms)
Max: 4.5 KN
Tmax: 3.4 ms
Min: -122.8 KN
Tmin: 11.5 ms
CFC 60
25 MPH FRONTAL UNBELTED
2006 DODGE RAM (C60304)
Test Date: 04/26/2007
Speed: 24.8 mph (39.9 km/h)

BARRIER FORCE - SUM LEFT (KN) vs TIME (ms)
Max: 7.9 KN
Tmax: 2.8 ms
Min: -231.9 KN
Tmin: 24.1 ms
CFC 60

BARRIER FORCE - SUM CENTER (KN) vs TIME (ms)
Max: 2.8 KN
Tmax: 103.7 ms
Min: -86.5 KN
Tmin: 9.4 ms
CFC 60

BARRIER FORCE - SUM RIGHT (KN) vs TIME (ms)
Max: 7.5 KN
Tmax: 2.6 ms
Min: -248.9 KN
Tmin: 43.8 ms
CFC 60

BARRIER FORCE - SUM ALL (KN) vs TIME (ms)
Max: 6.9 KN
Tmax: 105.3 ms
Min: -559.7 KN
Tmin: 24.3 ms
CFC 60
APPENDIX B

LOW RISK TEST DATA
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LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (5TH P1)

Test Date: 03/28/06
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 275ms

### 5TH FEM. DRIVER HEAD X (G's) vs TIME (ms)
- Max: 21.1 G's
- Tmax: 81.7 ms
- Min: -71.3 G's
- Tmin: 8.3 ms
- CFC 1000

### 5TH FEM. DRIVER HEAD Y (G's) vs TIME (ms)
- Max: 51.8 G's
- Tmax: 8.3 ms
- Min: -51.9 G's
- Tmin: 7.7 ms
- CFC 1000

### 5TH FEM. DRIVER HEAD Z (G's) vs TIME (ms)
- Max: 27.5 G's
- Tmax: 12.5 ms
- Min: -19.5 G's
- Tmin: 170.3 ms
- CFC 1000

### 5TH FEM. DRIVER HEAD Resultant (G's) vs TIME (ms)
- Max: 88.2 G's
- Tmax: 8.3 ms
- Min: 0.0 G's
- Tmin: 0.2 ms
- CFC 1000
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (5TH P1)

Test Date: 03/28/06
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 275ms

**5TH FEM. DRIVER HEAD X Velocity (kph) vs TIME (ms)**

- Max: 8.8 kph
- Tmax: 265.4 ms
- Min: -21.9 kph
- Tmin: 60.3 ms
- CFC 180

**5TH FEM. DRIVER HEAD Y Velocity (kph) vs TIME (ms)**

- Max: 0.0 kph
- Tmax: 6.4 ms
- Min: -3.7 kph
- Tmin: 165.0 ms
- CFC 180

**5TH FEM. DRIVER HEAD Z Velocity (kph) vs TIME (ms)**

- Max: 51.9 kph
- Tmax: 219.8 ms
- Min: -0.1 kph
- Tmin: 6.7 ms
- CFC 180
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (5TH P1)

Test Date: 03/28/06
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 275ms

5TH FEM. DRIVER NECK FX (N) vs TIME (ms)
Max: 402.5 N
Tmax: 8.3 ms
Min: -191.5 N
Tmin: 186.8 ms
CFC 1000

5TH FEM. DRIVER NECK FY (N) vs TIME (ms)
Max: 144.7 N
Tmax: 13.9 ms
Min: -109.4 N
Tmin: 170.5 ms
CFC 1000

5TH FEM. DRIVER NECK FZ (N) vs TIME (ms)
Max: 865.2 N
Tmax: 34.9 ms
Min: -513.0 N
Tmin: 183.4 ms
CFC 1000

5TH FEM. DRIVER NECK FResultant (N) vs TIME (ms)
Max: 867.7 N
Tmax: 34.9 ms
Min: 0.6 N
Tmin: 4.0 ms
CFC 1000
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (5TH P1)

Test Date: 03/28/06
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 275ms

5TH FEM. DRIVER NECK MX (Nm) vs TIME (ms)
Max: 2.1 Nm
Tmax: 95.4 ms
Min: -7.8 Nm
Tmin: 16.2 ms
CFC 600

5TH FEM. DRIVER NECK MY (Nm) vs TIME (ms)
Max: 41.4 Nm
Tmax: 24.8 ms
Min: -24.8 Nm
Tmin: 185.2 ms
CFC 600

5TH FEM. DRIVER NECK MZ (Nm) vs TIME (ms)
Max: 5.4 Nm
Tmax: 26.8 ms
Min: -2.6 Nm
Tmin: 108.3 ms
CFC 600

Drv. Occipital Condyle Moment (Nm) vs TIME (ms)
Max: 36.4 Nm
Tmax: 24.9 ms
Min: -21.6 Nm
Tmin: 179.6 ms
CFC 600
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (5TH P1)

Test Date: 03/28/06
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 275ms

5TH FEM. DRIVER CHEST X (G's) vs TIME (ms)
- Max: 6.6 G's
- Tmax: 60.3 ms
- Min: -27.2 G's
- Tmin: 10.9 ms
- CFC 180

5TH FEM. DRIVER CHEST Y (G's) vs TIME (ms)
- Max: 1.4 G's
- Tmax: 7.6 ms
- Min: -3.1 G's
- Tmin: 12.9 ms
- CFC 180

5TH FEM. DRIVER CHEST Z (G's) vs TIME (ms)
- Max: 6.3 G's
- Tmax: 32.0 ms
- Min: -3.5 G's
- Tmin: 243.2 ms
- CFC 180

5TH FEM. DRIVER CHEST Resultant (G's) vs TIME (ms)
- Max: 27.6 G's
- Tmax: 10.9 ms
- Min: 0.0 G's
- Tmin: 1.8 ms
- CFC 180
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (5TH P1)

Test Date: 03/28/06
Speed: 0.0 mph (0.0 km/h)

5TH FEM. DRIVER CHEST X Velocity (kph) vs TIME (ms)

- Max: 9.2 kph
- Tmax: 275.0 ms
- Min: -10.7 kph
- Tmin: 38.3 ms
- CFC 180

5TH FEM. DRIVER CHEST Y Velocity (kph) vs TIME (ms)

- Max: 1.2 kph
- Tmax: 254.0 ms
- Min: -0.3 kph
- Tmin: 40.1 ms
- CFC 180

5TH FEM. DRIVER CHEST Z Velocity (kph) vs TIME (ms)

- Max: 12.0 kph
- Tmax: 208.2 ms
- Min: -0.1 kph
- Tmin: 8.1 ms
- CFC 180

5TH FEM. DRIVER CHEST DISPLACEMENT (mm) vs TIME (ms)

- Max: 0.2 mm
- Tmax: 1.1 ms
- Min: -13.8 mm
- Tmin: 32.4 ms
- CFC 600
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (5TH P1)

Test Date: 03/28/06
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 275ms

5TH FEM. DRIVER LEFT FEMUR (N) vs TIME (ms)
Max: 222.0 N
Tmax: 36.8 ms
Min: -202.7 N
Tmin: 250.5 ms
CFC 600

5TH FEM. DRIVER RIGHT FEMUR (N) vs TIME (ms)
Max: 630.0 N
Tmax: 20.1 ms
Min: -131.8 N
Tmin: 222.5 ms
CFC 600
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (5TH P1)

Test Date: 03/28/06
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 275ms

FIRE VOLTAGE #1 (Volts) vs TIME (ms)
Max: 16.2 Volts
Tmax: 0.5 ms
Min: 1.3 Volts
Tmin: 219.7 ms
CFC 1000

FIRE CURRENT #1 (Amps) vs TIME (ms)
Max: 2.3 Amps
Tmax: 0.3 ms
Min: -0.0 Amps
Tmin: 150.2 ms
CFC 1000

FIRE VOLTAGE #2 (Volts) vs TIME (ms)
Max: 15.7 Volts
Tmax: 150.4 ms
Min: -0.3 Volts
Tmin: 149.8 ms
CFC 1000

FIRE CURRENT #2 (Amps) vs TIME (ms)
Max: 2.2 Amps
Tmax: 150.2 ms
Min: -0.1 Amps
Tmin: 149.8 ms
CFC 1000
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (5TH P1)
Test Date: 03/28/06
Speed: 0.0 mph (0.0 km/h)

Drv. nij (NTF) () vs TIME SPECIAL CHS (ms)
Max: 0.4
Tmax: 27.2 ms
Min: 0.0
Tmin: 0.2 ms
CFC 600

Drv. nij (NTE) () vs TIME SPECIAL CHS (ms)
Max: 0.3
Tmax: 100.7 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Drv. nij (NCF) () vs TIME SPECIAL CHS (ms)
Max: 0.0
Tmax: 221.9 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Drv. nij (NCE) () vs TIME SPECIAL CHS (ms)
Max: 0.5
Tmax: 185.2 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (5TH P2)

Test Date: 03/29/07
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 275ms

5TH FEM. DRIVER HEAD X (G's) vs TIME (ms)
Max: 19.2 G's
Tmax: 20.5 ms
Min: -10.0 G's
Tmin: 275.0 ms
CFC 1000

5TH FEM. DRIVER HEAD Y (G's) vs TIME (ms)
Max: 1.2 G's
Tmax: 30.9 ms
Min: -3.6 G's
Tmin: 20.3 ms
CFC 1000

5TH FEM. DRIVER HEAD Z (G's) vs TIME (ms)
Max: 21.6 G's
Tmax: 10.3 ms
Min: -4.5 G's
Tmin: 235.0 ms
CFC 1000

5TH FEM. DRIVER HEAD Resultant (G's) vs TIME (ms)
Max: 23.1 G's
Tmax: 17.5 ms
Min: 0.1 G's
Tmin: 0.1 ms
CFC 1000
Injury Values Calculated between 0ms and 275ms

5TH FEM. DRIVER HEAD X Velocity (kph) vs TIME (ms)

Max: 13.0 kph
Tmax: 79.5 ms
Min: -0.7 kph
Tmin: 275.0 ms
CFC 180

5TH FEM. DRIVER HEAD Y Velocity (kph) vs TIME (ms)

Max: 0.2 kph
Tmax: 17.8 ms
Min: -3.7 kph
Tmin: 275.0 ms
CFC 180

5TH FEM. DRIVER HEAD Z Velocity (kph) vs TIME (ms)

Max: 15.6 kph
Tmax: 201.6 ms
Min: -0.0 kph
Tmin: 0.1 ms
CFC 180
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (5TH P2)

Test Date: 03/29/07
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 275ms

5TH FEM. DRIVER NECK FX (N) vs TIME (ms)
Max: 79.7 N
Tmax: 265.4 ms
Min: -500.8 N
Tmin: 18.1 ms
CFC 1000

5TH FEM. DRIVER NECK FY (N) vs TIME (ms)
Max: 19.8 N
Tmax: 123.9 ms
Min: -46.8 N
Tmin: 243.1 ms
CFC 1000

5TH FEM. DRIVER NECK FZ (N) vs TIME (ms)
Max: 700.3 N
Tmax: 17.5 ms
Min: -164.9 N
Tmin: 234.3 ms
CFC 1000

5TH FEM. DRIVER NECK FResultant (N) vs TIME (ms)
Max: 858.1 N
Tmax: 18.0 ms
Min: 3.7 N
Tmin: 5.6 ms
CFC 1000
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (5TH P2)
Test Date: 03/29/07
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 275ms

5TH FEM. DRIVER NECK MX (Nm) vs TIME (ms)
- Max: 3.3 Nm
- Tmax: 21.3 ms
- Min: -2.8 Nm
- Tmin: 30.4 ms
- CFC 600

5TH FEM. DRIVER NECK MY (Nm) vs TIME (ms)
- Max: 21.5 Nm
- Tmax: 51.0 ms
- Min: -34.7 Nm
- Tmin: 18.4 ms
- CFC 600

5TH FEM. DRIVER NECK MZ (Nm) vs TIME (ms)
- Max: 2.2 Nm
- Tmax: 18.3 ms
- Min: -1.8 Nm
- Tmin: 243.3 ms
- CFC 600

Drv. Occipital Condyle Moment (Nm) vs TIME (ms)
- Max: 22.3 Nm
- Tmax: 51.0 ms
- Min: -31.7 Nm
- Tmin: 18.4 ms
- CFC 600
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (5TH P2)

Test Date: 03/29/07
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 275ms

5TH FEM. DRIVER CHEST X (G's) vs TIME (ms)
- Max: 5.6 G's
- Tmax: 250.3 ms
- Min: -29.6 G's
- Tmin: 9.0 ms
- CFC 180

5TH FEM. DRIVER CHEST Y (G's) vs TIME (ms)
- Max: 2.2 G's
- Tmax: 18.4 ms
- Min: -4.9 G's
- Tmin: 7.5 ms
- CFC 180

5TH FEM. DRIVER CHEST Z (G's) vs TIME (ms)
- Max: 8.6 G's
- Tmax: 11.3 ms
- Min: -2.4 G's
- Tmin: 244.5 ms
- CFC 180

5TH FEM. DRIVER CHEST Resultant (G's) vs TIME (ms)
- Max: 29.9 G's
- Tmax: 9.1 ms
- Min: 0.0 G's
- Tmin: 0.1 ms
- CFC 180
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (5TH P2)

Test Date: 03/29/07
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 275ms

5TH FEM. DRIVER LEFT FEMUR (N) vs TIME (ms)
Max: 431.3 N
Tmax: 14.3 ms
Min: -3.8 N
Tmin: 1.1 ms
CFC 600

5TH FEM. DRIVER RIGHT FEMUR (N) vs TIME (ms)
Max: 471.1 N
Tmax: 15.8 ms
Min: -11.1 N
Tmin: 111.2 ms
CFC 600
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (5TH P2)
Test Date: 03/29/07
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 275ms

FIRE VOLTAGE #1 (Volts) vs TIME (ms)
- Max: 8.5 Volts
- Tmax: 4.4 ms
- Min: -0.5 Volts
- Tmin: 27.1 ms

FIRE CURRENT #1 (Amps) vs TIME (ms)
- Max: 5.7 Amps
- Tmax: 2.0 ms
- Min: -0.0 Amps
- Tmin: 10.5 ms

FIRE VOLTAGE #2 (Volts) vs TIME (ms)
- Max: 13.7 Volts
- Tmax: 151.0 ms
- Min: -0.2 Volts
- Tmin: 149.7 ms

FIRE CURRENT #2 (Amps) vs TIME (ms)
- Max: 5.8 Amps
- Tmax: 150.5 ms
- Min: -0.1 Amps
- Tmin: 149.7 ms

CFC 1000
LOW RISK DEPLOYMENT

Test Date: 03/28/2006

2006 Dodge RAM (C60304) (12 Month Century Encore)

Injury Values Calculated between 0ms and 135ms

PASSENGER HEAD X (G's) vs TIME (ms)

Max: 118.9 G's
Tmax: 22.0 ms
Min: -6.2 G's
Tmin: 124.6 ms
CFC 1000

PASSENGER HEAD Y (G's) vs TIME (ms)

Max: 16.9 G's
Tmax: 38.6 ms
Min: -6.3 G's
Tmin: 119.3 ms
CFC 1000

PASSENGER HEAD Z (G's) vs TIME (ms)

Max: 16.5 G's
Tmax: 76.6 ms
Min: -15.7 G's
Tmin: 21.7 ms
CFC 1000

PASSENGER HEAD Resultant (G's) vs TIME (ms)

Max: 119.9 G's
Tmax: 22.0 ms
Min: 0.0 G's
Tmin: 0.3 ms
CFC 1000
LOW RISK DEPLOYMENT  
2006 Dodge RAM (C60304) (12 Month Century Encore)

Test Date: 03/28/2006

Injury Values Calculated between 0ms and 135ms

**PASSENGER HEAD X Velocity (kph) vs TIME (ms)**
- Max: 28.2 kph
- Tmax: 46.5 ms
- Min: 0.0 kph
- Tmin: 3.5 ms
- CFC 180

**PASSENGER HEAD Y Velocity (kph) vs TIME (ms)**
- Max: 6.8 kph
- Tmax: 50.4 ms
- Min: -0.1 kph
- Tmin: 135.0 ms
- CFC 180

**PASSENGER HEAD Z Velocity (kph) vs TIME (ms)**
- Max: 25.2 kph
- Tmax: 135.0 ms
- Min: -5.0 kph
- Tmin: 43.5 ms
- CFC 180
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (12 Month Century Encore)

Test Date: 03/28/2006

Injury Values Calculated between 0ms and 135ms

**PASSENGER NECK FX (N) vs TIME (ms)**
- Max: 101.8 N
- Tmax: 135.0 ms
- Min: -98.4 N
- Tmin: 49.6 ms

**PASSENGER NECK FY (N) vs TIME (ms)**
- Max: 210.8 N
- Tmax: 41.2 ms
- Min: -99.8 N
- Tmin: 75.8 ms

**PASSENGER NECK FZ (N) vs TIME (ms)**
- Max: 378.7 N
- Tmax: 78.0 ms
- Min: -189.5 N
- Tmin: 29.7 ms

**PASSENGER NECK FResultant (N) vs TIME (ms)**
- Max: 396.7 N
- Tmax: 76.8 ms
- Min: 0.3 N
- Tmin: 2.3 ms

CFC 1000
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (12 Month Century Encore)

Test Date: 03/28/2006

Injury Values Calculated between 0ms and 135ms

PASSENGER NECK MX (Nm) vs TIME (ms)

- Max: 6.8 Nm
- Tmax: 52.8 ms
- Min: -7.6 Nm
- Tmin: 39.8 ms
- CFC 600

PASSENGER NECK MY (Nm) vs TIME (ms)

- Max: 7.4 Nm
- Tmax: 24.3 ms
- Min: -3.7 Nm
- Tmin: 101.8 ms
- CFC 600

PASSENGER NECK MZ (Nm) vs TIME (ms)

- Max: 3.4 Nm
- Tmax: 35.9 ms
- Min: -0.8 Nm
- Tmin: 117.3 ms
- CFC 600

Pass. Occipital Condyle Moment (Nm) vs TIME (ms)

- Max: 6.8 Nm
- Tmax: 24.3 ms
- Min: -3.4 Nm
- Tmin: 101.7 ms
- CFC 600
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (12 Month Century Encore)

Test Date: 03/28/2006

Injury Values Calculated between 0ms and 135ms

**PASSENGER CHEST X (G's) vs TIME (ms)**
- Max: 58.7 G's
- Tmin: 22.1 ms
- Min: -9.3 G's
- Tmin: 69.7 ms
- CFC 180

**PASSENGER CHEST Y (G's) vs TIME (ms)**
- Max: 15.7 G's
- Tmax: 28.7 ms
- Min: -6.3 G's
- Tmin: 78.7 ms
- CFC 180

**PASSENGER CHEST Z (G's) vs TIME (ms)**
- Max: 12.8 G's
- Tmax: 118.9 ms
- Min: -11.5 G's
- Tmin: 38.4 ms
- CFC 180

**PASSENGER CHEST Resultant (G's) vs TIME (ms)**
- Max: 59.5 G's
- Tmax: 22.1 ms
- Min: 0.0 G's
- Tmin: 2.8 ms
- CFC 180

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LOW RISK DEPLOYMENT
Test Date: 03/28/2006
2006 Dodge RAM (C60304) (12 Month Century Encore)

Injury Values Calculated between 0ms and 135ms

**PASSENGER CHEST X Velocity (kph) vs TIME (ms)**
- Max: 21.6 kph
- Tmax: 128.8 ms
- Min: 0.0 kph
- Tmin: 0.1 ms
- CFC 180

**PASSENGER CHEST Y Velocity (kph) vs TIME (ms)**
- Max: 6.5 kph
- Tmax: 40.7 ms
- Min: -0.7 kph
- Tmin: 115.9 ms
- CFC 180

**PASSENGER CHEST Z Velocity (kph) vs TIME (ms)**
- Max: 16.3 kph
- Tmax: 135.0 ms
- Min: -2.5 kph
- Tmin: 60.1 ms
- CFC 180
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (12 Month Century Encore)

Injury Values Calculated between 0ms and 135ms

**FIRE VOLTAGE #1 (Volts) vs TIME (ms)**
- Max: 16.4 Volts
- Tmax: 0.5 ms
- Min: 0.9 Volts
- Tmin: 13.2 ms
- CFC 1000

**FIRE CURRENT #1 (Amps) vs TIME (ms)**
- Max: 2.2 Amps
- Tmax: 0.2 ms
- Min: -0.0 Amps
- Tmin: 0.6 ms
- CFC 1000

**FIRE VOLTAGE #2 (Volts) vs TIME (ms)**
- Max: 5.0 Volts
- Tmax: 10.2 ms
- Min: -0.3 Volts
- Tmin: 31.4 ms
- CFC 1000

**FIRE CURRENT #2 (Amps) vs TIME (ms)**
- Max: 5.8 Amps
- Tmax: 13.2 ms
- Min: -0.1 Amps
- Tmin: 9.8 ms
- CFC 1000
LOW RISK DEPLOYMENT
Test Date: 03/28/2006
2006 Dodge RAM (C60304) (12 Month Century Encore)

PASS. nij (NTF) () vs TIME SPECIAL CHS (ms)
Max: 0.3
Tmax: 78.3 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Pass. nij (NTE) () vs TIME SPECIAL CHS (ms)
Max: 0.4
Tmax: 101.7 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Pass. nij (NCF) () vs TIME SPECIAL CHS (ms)
Max: 0.2
Tmax: 29.5 ms
Min: 0.0
Tmin: 0.3 ms
CFC 600

Pass. nij (NCE) () vs TIME SPECIAL CHS (ms)
Max: 0.1
Tmax: 128.5 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600
LOW RISK DEPLOYMENT
Test Date: 06/22/06
2006 Dodge RAM (C60304) (12 month Century Encore Trial 2)

Injury Values Calculated between 0ms and 135ms

**PASSENGER HEAD X (G's) vs TIME (ms)**
- Max: 174.3 G's
- Tmax: 21.3 ms
- Min: -28.7 G's
- Tmin: 101.9 ms
- CFC 1000

**PASSENGER HEAD Y (G's) vs TIME (ms)**
- Max: 58.3 G's
- Tmax: 21.6 ms
- Min: -11.5 G's
- Tmin: 97.2 ms
- CFC 1000

**PASSENGER HEAD Z (G's) vs TIME (ms)**
- Max: 23.6 G's
- Tmax: 100.6 ms
- Min: -7.2 G's
- Tmin: 37.2 ms
- CFC 1000

**PASSENGER HEAD Resultant (G's) vs TIME (ms)**
- Max: 179.4 G's
- Tmax: 21.9 ms
- Min: 0.0 G's
- Tmin: 0.5 ms
- CFC 1000
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (12 month Century Encore Trial 2)

Injury Values Calculated between 0ms and 135ms

**PASSENGER HEAD X Velocity (kph) vs TIME (ms)**
- Max: 32.9 kph
- Tmax: 44.6 ms
- Min: 0.0 kph
- Tmin: 2.3 ms
- CFC 180

**PASSENGER HEAD Y Velocity (kph) vs TIME (ms)**
- Max: 10.8 kph
- Tmax: 45.0 ms
- Min: -0.0 kph
- Tmin: 13.3 ms
- CFC 180

**PASSENGER HEAD Z Velocity (kph) vs TIME (ms)**
- Max: 38.2 kph
- Tmax: 135.0 ms
- Min: -0.7 kph
- Tmin: 41.1 ms
- CFC 180

Test Date: 06/22/06
Injury Values Calculated between 0ms and 135ms

PASSENGER NECK FX (N) vs TIME (ms)

Max: 161.8 N
Tmax: 117.8 ms
Min: -138.4 N
Tmin: 76.7 ms
CFC 1000

PASSENGER NECK FY (N) vs TIME (ms)

Max: 144.2 N
Tmax: 39.2 ms
Min: -131.5 N
Tmin: 97.7 ms
CFC 1000

PASSENGER NECK FZ (N) vs TIME (ms)

Max: 489.4 N
Tmax: 72.3 ms
Min: -516.7 N
Tmin: 104.0 ms
CFC 1000

PASSENGER NECK FResultant (N) vs TIME (ms)

Max: 545.9 N
Tmax: 103.6 ms
Min: 0.2 N
Tmin: 6.5 ms
CFC 1000
LOW RISK DEPLOYMENT

Test Date: 06/22/06
2006 Dodge RAM (C60304) (12 month Century Encore Trial 2)

Injury Values Calculated between 0ms and 135ms

**PASSENGER NECK MX (Nm) vs TIME (ms)**
- Max: 3.7 Nm
- Tmax: 50.6 ms
- Min: -4.4 Nm
- Tmin: 38.8 ms
- CFC 600

**PASSENGER NECK MY (Nm) vs TIME (ms)**
- Max: 14.5 Nm
- Tmax: 128.1 ms
- Min: -4.4 Nm
- Tmin: 74.1 ms
- CFC 600

**PASSENGER NECK MZ (Nm) vs TIME (ms)**
- Max: 3.8 Nm
- Tmax: 32.5 ms
- Min: -0.2 Nm
- Tmin: 89.8 ms
- CFC 600

**Pass. Occipital Condyle Moment (Nm) vs TIME (ms)**
- Max: 13.6 Nm
- Tmax: 128.1 ms
- Min: -3.6 Nm
- Tmin: 73.2 ms
- CFC 600
LOW RISK DEPLOYMENT Test Date: 06/22/06
2006 Dodge RAM (C60304) (12 month Century Encore Trial 2)

Injury Values Calculated between 0ms and 135ms

PASSENGER CHEST X (G's) vs TIME (ms)
Max: 93.7 G's
Tmax: 22.2 ms
Min: -13.3 G's
Tmin: 72.6 ms
CFC 180

PASSENGER CHEST Y (G's) vs TIME (ms)
Max: 24.3 G's
Tmax: 22.6 ms
Min: -5.1 G's
Tmin: 69.2 ms
CFC 180

PASSENGER CHEST Z (G's) vs TIME (ms)
Max: 19.2 G's
Tmax: 103.5 ms
Min: -9.1 G's
Tmin: 22.4 ms
CFC 180

PASSENGER CHEST Resultant (G's) vs TIME (ms)
Max: 96.9 G's
Tmax: 22.2 ms
Min: 0.0 G's
Tmin: 2.3 ms
CFC 180
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (12 month Century Encore Trial 2)

Test Date: 06/22/06

Injury Values Calculated between 0ms and 135ms

**PASSENGER CHEST X Velocity (kph) vs TIME (ms)**
- Max: 24.0 kph
- Tmax: 58.8 ms
- Min: -0.0 kph
- Tmin: 0.1 ms
- CFC 180

**PASSENGER CHEST Y Velocity (kph) vs TIME (ms)**
- Max: 7.1 kph
- Tmax: 39.5 ms
- Min: -0.0 kph
- Tmin: 12.9 ms
- CFC 180

**PASSENGER CHEST Z Velocity (kph) vs TIME (ms)**
- Max: 25.0 kph
- Tmax: 135.0 ms
- Min: -1.2 kph
- Tmin: 43.3 ms
- CFC 180
LOW RISK DEPLOYMENT
Test Date: 06/22/06
2006 Dodge RAM (C60304) (12 month Century Encore Trial 2)

**FIRE VOLTAGE #1 (Volts) vs TIME (ms)**

- Max: 15.6 Volts
- Tmax: 1.0 ms
- Min: 0.7 Volts
- Tmin: 13.2 ms
- CFC 1000

**FIRE CURRENT #1 (Amps) vs TIME (ms)**

- Max: 2.2 Amps
- Tmax: 0.6 ms
- Min: -0.0 Amps
- Tmin: 69.5 ms
- CFC 1000

**FIRE VOLTAGE #2 (Volts) vs TIME (ms)**

- Max: 8.3 Volts
- Tmax: 10.2 ms
- Min: -0.3 Volts
- Tmin: 9.8 ms
- CFC 1000

**FIRE CURRENT #2 (Amps) vs TIME (ms)**

- Max: 5.8 Amps
- Tmax: 13.2 ms
- Min: -0.1 Amps
- Tmin: 20.5 ms
- CFC 1000
LOW RISK DEPLOYMENT
Test Date: 06/22/06
2006 Dodge RAM (C60304) (12 month Century Encore Trial 2)

PASS. nij (NTF) () vs TIME SPECIAL CHS (ms)
Max: 0.2
Tmax: 83.8 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Pass. nij (NTE) () vs TIME SPECIAL CHS (ms)
Max: 0.5
Tmax: 73.0 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Pass. nij (NCF) () vs TIME SPECIAL CHS (ms)
Max: 0.7
Tmax: 122.6 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Pass. nij (NCE) () vs TIME SPECIAL CHS (ms)
Max: 0.2
Tmax: 98.6 ms
Min: 0.0
Tmin: 0.9 ms
CFC 600
LOW RISK DEPLOYMENT

Test Date: 06/22/06

2006 Dodge RAM (C60304) (12 month Century Encore Trial 3)

Injury Values Calculated between 0ms and 135ms

**PASSENGER HEAD X (G's) vs TIME (ms)**
- Max: 168.8 G's
- Tmax: 23.2 ms
- Min: -9.8 G's
- Tmin: 112.4 ms
- CFC 1000

**PASSENGER HEAD Y (G's) vs TIME (ms)**
- Max: 32.1 G's
- Tmax: 23.2 ms
- Min: -3.0 G's
- Tmin: 32.9 ms
- CFC 1000

**PASSENGER HEAD Z (G's) vs TIME (ms)**
- Max: 17.7 G's
- Tmax: 81.9 ms
- Min: -14.4 G's
- Tmin: 40.6 ms
- CFC 1000

**PASSENGER HEAD Resultant (G's) vs TIME (ms)**
- Max: 171.9 G's
- Tmax: 23.2 ms
- Min: 0.0 G's
- Tmin: 0.4 ms
- CFC 1000
LOW RISK DEPLOYMENT
Test Date: 06/22/06
2006 Dodge RAM (C60304) (12 month Century Encore Trial 3)

Injury Values Calculated between 0ms and 135ms

PASSENGER HEAD X Velocity (kph) vs TIME (ms)
Max: 28.4 kph
Tmax: 44.5 ms
Min: -0.0 kph
Tmin: 0.1 ms
CFC 180

PASSENGER HEAD Y Velocity (kph) vs TIME (ms)
Max: 6.7 kph
Tmax: 135.0 ms
Min: -0.0 kph
Tmin: 15.2 ms
CFC 180

PASSENGER HEAD Z Velocity (kph) vs TIME (ms)
Max: 26.7 kph
Tmax: 135.0 ms
Min: -2.3 kph
Tmin: 45.5 ms
CFC 180
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (12 month Century Encore Trial 3)

Test Date: 06/22/06

Injury Values Calculated between 0ms and 135ms

PASSENGER NECK FX (N) vs TIME (ms)
Max: 140.7 N
Tmax: 25.2 ms
Min: -101.0 N
Tmin: 78.5 ms
CFC 1000

PASSENGER NECK FY (N) vs TIME (ms)
Max: 53.7 N
Tmax: 23.3 ms
Min: -71.3 N
Tmin: 131.5 ms
CFC 1000

PASSENGER NECK FZ (N) vs TIME (ms)
Max: 470.6 N
Tmax: 81.8 ms
Min: -275.0 N
Tmin: 41.3 ms
CFC 1000

PASSENGER NECK FResultant (N) vs TIME (ms)
Max: 477.5 N
Tmax: 81.8 ms
Min: 0.3 N
Tmin: 7.9 ms
CFC 1000
LOW RISK DEPLOYMENT
Test Date: 06/22/06
2006 Dodge RAM (C60304) (12 month Century Encore Trial 3)

Injury Values Calculated between 0ms and 135ms

**PASSENGER NECK MX (Nm) vs TIME (ms)**
- Max: 2.6 Nm
- Tmax: 52.0 ms
- Min: -4.1 Nm
- Tmin: 117.9 ms

**PASSENGER NECK MY (Nm) vs TIME (ms)**
- Max: 9.2 Nm
- Tmax: 25.3 ms
- Min: -3.8 Nm
- Tmin: 78.3 ms

**PASSENGER NECK MZ (Nm) vs TIME (ms)**
- Max: 2.2 Nm
- Tmax: 33.4 ms
- Min: -1.6 Nm
- Tmin: 109.1 ms

**Pass. Occipital Condyle Moment (Nm) vs TIME (ms)**
- Max: 8.4 Nm
- Tmax: 25.4 ms
- Min: -3.3 Nm
- Tmin: 77.5 ms
LOW RISK DEPLOYMENT

Test Date: 06/22/06

2006 Dodge RAM (C60304) (12 month Century Encore Trial 3)

Injury Values Calculated between 0ms and 135ms

**PASSENGER CHEST X (G's) vs TIME (ms)**

- **Max:** 73.4 G's
- **Tmax:** 23.8 ms
- **Min:** -11.7 G's
- **Tmin:** 135.0 ms

**PASSENGER CHEST Y (G's) vs TIME (ms)**

- **Max:** 9.4 G's
- **Tmax:** 28.4 ms
- **Min:** -3.6 G's
- **Tmin:** 70.8 ms

**PASSENGER CHEST Z (G's) vs TIME (ms)**

- **Max:** 13.2 G's
- **Tmax:** 107.2 ms
- **Min:** -13.1 G's
- **Tmin:** 40.5 ms

**PASSENGER CHEST Resultant (G's) vs TIME (ms)**

- **Max:** 73.8 G's
- **Tmax:** 23.8 ms
- **Min:** 0.0 G's
- **Tmin:** 3.8 ms

CFC 180
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (12 month Century Encore Trial 3)

Injury Values Calculated between 0ms and 135ms

PASSENGER CHEST X Velocity (kph) vs TIME (ms)
- Max: 22.4 kph
- Tmax: 113.8 ms
- Min: -0.0 kph
- Tmin: 1.0 ms
- CFC 180

PASSENGER CHEST Y Velocity (kph) vs TIME (ms)
- Max: 2.7 kph
- Tmax: 33.4 ms
- Min: -0.9 kph
- Tmin: 102.1 ms
- CFC 180

PASSENGER CHEST Z Velocity (kph) vs TIME (ms)
- Max: 18.5 kph
- Tmax: 135.0 ms
- Min: -5.0 kph
- Tmin: 54.5 ms
- CFC 180
LOW RISK DEPLOYMENT
Test Date: 06/22/06
2006 Dodge RAM (C60304) (12 month Century Encore Trial 3)

Injury Values Calculated between 0ms and 135ms

FIRE VOLTAGE #1 (Volts) vs TIME (ms)
- Max: 16.0 Volts
- Tmax: 0.5 ms
- Min: 0.8 Volts
- Tmin: 24.6 ms
- CFC 1000

FIRE CURRENT #1 (Amps) vs TIME (ms)
- Max: 2.0 Amps
- Tmax: 0.3 ms
- Min: -0.0 Amps
- Tmin: 79.3 ms
- CFC 1000

FIRE VOLTAGE #2 (Volts) vs TIME (ms)
- Max: 16.3 Volts
- Tmax: 10.7 ms
- Min: -0.2 Volts
- Tmin: 9.8 ms
- CFC 1000

FIRE CURRENT #2 (Amps) vs TIME (ms)
- Max: 4.7 Amps
- Tmax: 11.1 ms
- Min: -0.0 Amps
- Tmin: 20.6 ms
- CFC 1000
LOW RISK DEPLOYMENT
Test Date: 06/22/06
2006 Dodge RAM (C60304) (12 month Century Encore Trial 3)

PASS. \( nij \) (NTF) () vs TIME SPECIAL CHS (ms)

Max: 0.2
Tmax: 23.8 ms
Min: 0.0
Tmin: 0.7 ms
CFC 600

Pass. \( nij \) (NTE) () vs TIME SPECIAL CHS (ms)

Max: 0.5
Tmax: 80.1 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Pass. \( nij \) (NCF) () vs TIME SPECIAL CHS (ms)

Max: 0.3
Tmax: 41.3 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Pass. \( nij \) (NCE) () vs TIME SPECIAL CHS (ms)

Max: 0.1
Tmax: 118.9 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600
LOW RISK DEPLOYMENT
Test Date: 06/22/06
2006 Dodge RAM (C60304) (12 month Century Encore Trial 4)

Injury Values Calculated between 0ms and 135ms

PASSENGER HEAD X (G's) vs TIME (ms)
- Max: 152.5 G's
- Tmax: 22.5 ms
- Min: -21.3 G's
- Tmin: 101.0 ms
- CFC 1000

PASSENGER HEAD Y (G's) vs TIME (ms)
- Max: 38.5 G's
- Tmax: 22.9 ms
- Min: -3.0 G's
- Tmin: 118.6 ms
- CFC 1000

PASSENGER HEAD Z (G's) vs TIME (ms)
- Max: 18.9 G's
- Tmax: 103.5 ms
- Min: -6.6 G's
- Tmin: 35.9 ms
- CFC 1000

PASSENGER HEAD Resultant (G's) vs TIME (ms)
- Max: 156.9 G's
- Tmax: 22.5 ms
- Min: 0.0 G's
- Tmin: 2.5 ms
- CFC 1000
LOW RISK DEPLOYMENT
Test Date: 06/22/06
2006 Dodge RAM (C60304) (12 month Century Encore Trial 4)

Injury Values Calculated between 0ms and 135ms

PASSENGER HEAD X Velocity (kph) vs TIME (ms)
Max: 36.4 kph
Tmax: 45.0 ms
Min: 0.0 kph
Tmin: 0.1 ms
CFC 180

PASSENGER HEAD Y Velocity (kph) vs TIME (ms)
Max: 9.2 kph
Tmax: 114.5 ms
Min: 0.0 kph
Tmin: 14.4 ms
CFC 180

PASSENGER HEAD Z Velocity (kph) vs TIME (ms)
Max: 40.0 kph
Tmax: 135.0 ms
Min: -0.8 kph
Tmin: 40.9 ms
CFC 180
LOW RISK DEPLOYMENT
Test Date: 06/22/06
2006 Dodge RAM (C60304) (12 month Century Encore Trial 4)

Injury Values Calculated between 0ms and 135ms

PASSENGER NECK FX (N) vs TIME (ms)
Max: 150.0 N
Tmax: 113.1 ms
Min: -123.8 N
Tmin: 69.7 ms
CFC 1000

PASSENGER NECK FY (N) vs TIME (ms)
Max: 79.1 N
Tmax: 25.2 ms
Min: -141.9 N
Tmin: 121.0 ms
CFC 1000

PASSENGER NECK FZ (N) vs TIME (ms)
Max: 450.8 N
Tmax: 79.8 ms
Min: -388.8 N
Tmin: 121.6 ms
CFC 1000

PASSENGER NECK FResultant (N) vs TIME (ms)
Max: 458.7 N
Tmax: 69.8 ms
Min: 0.2 N
Tmin: 5.3 ms
CFC 1000
LOW RISK DEPLOYMENT Test Date: 06/22/06
2006 Dodge RAM (C60304) (12 month Century Encore Trial 4)

Injury Values Calculated between 0ms and 135ms

**Passenger Neck MX (Nm) vs Time (ms)**
- Max: 4.0 Nm
- Tmax: 125.6 ms
- Min: -5.0 Nm
- Tmin: 25.0 ms
- CFC 600

**Passenger Neck MY (Nm) vs Time (ms)**
- Max: 8.4 Nm
- Tmax: 115.6 ms
- Min: -5.3 Nm
- Tmin: 99.5 ms
- CFC 600

**Passenger Neck MZ (Nm) vs Time (ms)**
- Max: 1.8 Nm
- Tmax: 30.5 ms
- Min: -0.3 Nm
- Tmin: 46.4 ms
- CFC 600

**Pass. Occipital Condyle Moment (Nm) vs Time (ms)**
- Max: 7.6 Nm
- Tmax: 115.7 ms
- Min: -4.9 Nm
- Tmin: 99.9 ms
- CFC 600
LOW RISK DEPLOYMENT  
Test Date: 06/22/06
2006 Dodge RAM (C60304) (12 month Century Encore Trial 4)

Injury Values Calculated between 0ms and 135ms

- **PASSENGER CHEST X (G's) vs TIME (ms)**
  - Max: 62.0 G's
  - Tmax: 22.6 ms
  - Min: -9.1 G's
  - Tmin: 75.8 ms
  - CFC 180

- **PASSENGER CHEST Y (G's) vs TIME (ms)**
  - Max: 9.8 G's
  - Tmax: 28.2 ms
  - Min: -4.5 G's
  - Tmin: 36.7 ms
  - CFC 180

- **PASSENGER CHEST Z (G's) vs TIME (ms)**
  - Max: 18.2 G's
  - Tmax: 103.1 ms
  - Min: -9.0 G's
  - Tmin: 39.5 ms
  - CFC 180

- **PASSENGER CHEST Resultant (G's) vs TIME (ms)**
  - Max: 62.6 G's
  - Tmax: 22.6 ms
  - Min: 0.0 G's
  - Tmin: 3.1 ms
  - CFC 180
LOW RISK DEPLOYMENT
Test Date: 06/22/06
2006 Dodge RAM (C60304) (12 month Century Encore Trial 4)

Injury Values Calculated between 0ms and 135ms

PASSENGER CHEST X Velocity (kph) vs TIME (ms)
Max: 24.9 kph
Tmax: 55.2 ms
Min: 0.0 kph
Tmin: 3.2 ms
CFC 180

PASSENGER CHEST Y Velocity (kph) vs TIME (ms)
Max: 4.4 kph
Tmax: 135.0 ms
Min: 0.0 kph
Tmin: 13.3 ms
CFC 180

PASSENGER CHEST Z Velocity (kph) vs TIME (ms)
Max: 26.9 kph
Tmax: 135.0 ms
Min: -3.2 kph
Tmin: 60.7 ms
CFC 180
Low Risk Deployment Test Date: 06/22/06
2006 Dodge RAM (C60304) (12 month Century Encore Trial 4)

Injury Values Calculated between 0ms and 135ms

**FIRE VOLTAGE #1 (Volts) vs TIME (ms)**
- Max: 15.7 Volts
- Tmax: 0.5 ms
- Min: 0.8 Volts
- Tmin: 11.8 ms
- CFC 1000

**FIRE CURRENT #1 (Amps) vs TIME (ms)**
- Max: 2.1 Amps
- Tmax: 0.3 ms
- Min: -0.0 Amps
- Tmin: 59.6 ms
- CFC 1000

**FIRE VOLTAGE #2 (Volts) vs TIME (ms)**
- Max: 13.5 Volts
- Tmax: 12.3 ms
- Min: -0.2 Volts
- Tmin: 130.4 ms
- CFC 1000

**FIRE CURRENT #2 (Amps) vs TIME (ms)**
- Max: 5.6 Amps
- Tmax: 11.8 ms
- Min: -0.1 Amps
- Tmin: 12.3 ms
- CFC 1000
LOW RISK DEPLOYMENT
Test Date: 06/22/06
2006 Dodge RAM (C60304) (12 month Century Encore Trial 4)

PASS. nij (NTF) (\) vs TIME SPECIAL CHS (ms)
Max: 0.3
Tmax: 80.8 ms
Min: 0.0
Tmin: 0.6 ms
CFC 600

Pass. nij (NTE) (\) vs TIME SPECIAL CHS (ms)
Max: 0.4
Tmax: 68.2 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Pass. nij (NCF) (\) vs TIME SPECIAL CHS (ms)
Max: 0.4
Tmax: 119.0 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Pass. nij (NCE) (\) vs TIME SPECIAL CHS (ms)
Max: 0.5
Tmax: 101.2 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (12 month Century Encore Trial 5)

Test Date: 03/27/07

Injury Values Calculated between 0ms and 135ms

**PASSENGER HEAD X (G's) vs TIME (ms)**
- Max: 70.0 G's
- Tmax: 25.6 ms
- Min: -3.2 G's
- Tmin: 122.6 ms
- CFC 1000

**PASSENGER HEAD Y (G's) vs TIME (ms)**
- Max: 5.4 G's
- Tmax: 25.8 ms
- Min: -1.5 G's
- Tmin: 34.8 ms
- CFC 1000

**PASSENGER HEAD Z (G's) vs TIME (ms)**
- Max: 8.7 G's
- Tmax: 97.2 ms
- Min: -14.3 G's
- Tmin: 25.5 ms
- CFC 1000

**PASSENGER HEAD Resultant (G's) vs TIME (ms)**
- Max: 71.6 G's
- Tmax: 25.6 ms
- Min: 0.0 G's
- Tmin: 3.8 ms
- CFC 1000
LOW RISK DEPLOYMENT
Test Date: 03/27/07
2006 Dodge RAM (C60304) (12 month Century Encore Trial 5)

Injury Values Calculated between 0ms and 135ms

PASSENGER HEAD X Velocity (kph) vs TIME (ms)
Max: 17.4 kph
Tmax: 48.1 ms
Min: -0.0 kph
Tmin: 0.1 ms
CFC 180

PASSENGER HEAD Y Velocity (kph) vs TIME (ms)
Max: 1.8 kph
Tmax: 95.6 ms
Min: -0.0 kph
Tmin: 18.2 ms
CFC 180

PASSENGER HEAD Z Velocity (kph) vs TIME (ms)
Max: 10.3 kph
Tmax: 135.0 ms
Min: -2.6 kph
Tmin: 30.2 ms
CFC 180
LOW RISK DEPLOYMENT
Test Date: 03/27/07
2006 Dodge RAM (C60304) (12 month Century Encore Trial 5)

Injury Values Calculated between 0ms and 135ms

**PASSENGER NECK FX (N) vs TIME (ms)**
- Max: 178.1 N
- Tmax: 27.5 ms
- Min: -115.8 N
- Tmin: 35.9 ms
- CFC 1000

**PASSENGER NECK FY (N) vs TIME (ms)**
- Max: 30.1 N
- Tmax: 50.0 ms
- Min: -23.5 N
- Tmin: 129.0 ms
- CFC 1000

**PASSENGER NECK FZ (N) vs TIME (ms)**
- Max: 211.7 N
- Tmax: 97.6 ms
- Min: -76.9 N
- Tmin: 34.3 ms
- CFC 1000

**PASSENGER NECK FResultant (N) vs TIME (ms)**
- Max: 226.1 N
- Tmax: 97.7 ms
- Min: 0.8 N
- Tmin: 2.7 ms
- CFC 1000
LOW RISK DEPLOYMENT
Test Date: 03/27/07
2006 Dodge RAM (C60304) (12 month Century Encore Trial 5)

Injury Values Calculated between 0ms and 135ms

**PASSENGER NECK MX (Nm) vs TIME (ms)**
- Max: 0.9 Nm
- Tmax: 55.3 ms
- Min: -0.7 Nm
- Tmin: 134.5 ms

**PASSENGER NECK MY (Nm) vs TIME (ms)**
- Max: 9.5 Nm
- Tmax: 27.9 ms
- Min: -3.6 Nm
- Tmin: 99.2 ms

**PASSENGER NECK MZ (Nm) vs TIME (ms)**
- Max: 1.0 Nm
- Tmax: 64.2 ms
- Min: -0.4 Nm
- Tmin: 25.1 ms

**Pass. Occipital Condyle Moment (Nm) vs TIME (ms)**
- Max: 8.5 Nm
- Tmax: 28.1 ms
- Min: -3.1 Nm
- Tmin: 99.2 ms
Injury Values Calculated between 0ms and 135ms

LOW RISK DEPLOYMENT
Test Date: 03/27/07
2006 Dodge RAM (C60304) (12 month Century Encore Trial 5)

PASSENGER CHEST X (G's) vs TIME (ms)
- Max: 35.4 G's
- Tmax: 25.2 ms
- Min: -8.8 G's
- Tmin: 95.7 ms
- CFC 180

PASSENGER CHEST Y (G's) vs TIME (ms)
- Max: 5.3 G's
- Tmax: 28.2 ms
- Min: -1.4 G's
- Tmin: 96.2 ms
- CFC 180

PASSENGER CHEST Z (G's) vs TIME (ms)
- Max: 6.8 G's
- Tmax: 32.6 ms
- Min: -12.0 G's
- Tmin: 25.7 ms
- CFC 180

PASSENGER CHEST Resultant (G's) vs TIME (ms)
- Max: 37.3 G's
- Tmax: 25.3 ms
- Min: 0.0 G's
- Tmin: 2.1 ms
- CFC 180
Injury Values Calculated between 0ms and 135ms

- **PASSENGER CHEST X Velocity (kph) vs TIME (ms)**
  - Max: 12.0 kph
  - Tmax: 74.0 ms
  - Min: 0.0 kph
  - Tmin: 3.8 ms
  - CFC 180

- **PASSENGER CHEST Y Velocity (kph) vs TIME (ms)**
  - Max: 1.6 kph
  - Tmax: 69.8 ms
  - Min: -0.1 kph
  - Tmin: 20.9 ms
  - CFC 180

- **PASSENGER CHEST Z Velocity (kph) vs TIME (ms)**
  - Max: 5.0 kph
  - Tmax: 135.0 ms
  - Min: -3.5 kph
  - Tmin: 67.8 ms
  - CFC 180
LOW RISK DEPLOYMENT

Test Date: 03/27/07

2006 Dodge RAM (C60304) (12 month Century Encore Trial 5)

Injury Values Calculated between 0ms and 135ms

FIRE VOLTAGE #1 (Volts) vs TIME (ms)
Max: 16.1 Volts
Tmax: 0.7 ms
Min: 0.9 Volts
Tmin: 11.2 ms
CFC 1000

FIRE CURRENT #1 (Amps) vs TIME (ms)
Max: 1.6 Amps
Tmax: 0.3 ms
Min: -0.0 Amps
Tmin: 70.7 ms
CFC 1000

FIRE VOLTAGE #2 (Volts) vs TIME (ms)
Max: 14.5 Volts
Tmax: 11.6 ms
Min: -0.2 Volts
Tmin: 125.2 ms
CFC 1000

FIRE CURRENT #2 (Amps) vs TIME (ms)
Max: 5.3 Amps
Tmax: 11.2 ms
Min: -0.0 Amps
Tmin: 9.7 ms
CFC 1000
LOW RISK DEPLOYMENT

Test Date: 03/27/07
2006 Dodge RAM (C60304) (12 month Century Encore Trial 5)

PASS. nij (NTF) () vs TIME SPECIAL CHS (ms)
Max: 0.3
Tmax: 26.9 ms
Min: 0.0
Tmin: 0.5 ms
CFC 600

Pass. nij (NTE) () vs TIME SPECIAL CHS (ms)
Max: 0.3
Tmax: 98.6 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Pass. nij (NCF) () vs TIME SPECIAL CHS (ms)
Max: 0.1
Tmax: 32.5 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Pass. nij (NCE) () vs TIME SPECIAL CHS (ms)
Max: 0.1
Tmax: 36.7 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600
LOW RISK DEPLOYMENT
Test Date: 03/28/07
2006 Dodge RAM (C60304) (12 month Century Encore Trial 6)

Injury Values Calculated between 0ms and 135ms

PASSENGER HEAD X (G's) vs TIME (ms)
- Max: 33.8 G's
- Tmax: 25.5 ms
- Min: -4.6 G's
- Tmin: 100.5 ms
- CFC 1000

PASSENGER HEAD Y (G's) vs TIME (ms)
- Max: 6.0 G's
- Tmax: 25.0 ms
- Min: -1.8 G's
- Tmin: 113.9 ms
- CFC 1000

PASSENGER HEAD Z (G's) vs TIME (ms)
- Max: 10.6 G's
- Tmax: 98.9 ms
- Min: -8.2 G's
- Tmin: 27.6 ms
- CFC 1000

PASSENGER HEAD Resultant (G's) vs TIME (ms)
- Max: 34.7 G's
- Tmax: 25.5 ms
- Min: 0.0 G's
- Tmin: 4.2 ms
- CFC 1000
LOW RISK DEPLOYMENT  
Test Date: 03/28/07  
2006 Dodge RAM (C60304) (12 month Century Encore Trial 6)

Injury Values Calculated between 0ms and 135ms

**PASSENGER HEAD X Velocity (kph) vs TIME (ms)**
- Max: 10.6 kph  
- Tmax: 58.7 ms  
- Min: 0.0 kph  
- Tmin: 4.6 ms  
- CFC 180

**PASSENGER HEAD Y Velocity (kph) vs TIME (ms)**
- Max: 4.0 kph  
- Tmax: 83.9 ms  
- Min: -0.0 kph  
- Tmin: 19.8 ms  
- CFC 180

**PASSENGER HEAD Z Velocity (kph) vs TIME (ms)**
- Max: 9.0 kph  
- Tmax: 135.0 ms  
- Min: -4.7 kph  
- Tmin: 67.6 ms  
- CFC 180
LOW RISK DEPLOYMENT
Test Date: 03/28/07
2006 Dodge RAM (C60304) (12 month Century Encore Trial 6)

Injury Values Calculated between 0ms and 135ms

PASSENGER NECK FX (N) vs TIME (ms)
Max: 68.6 N
Tmax: 29.7 ms
Min: -113.2 N
Tmin: 100.3 ms
CFC 1000

PASSENGER NECK FY (N) vs TIME (ms)
Max: 39.5 N
Tmax: 59.2 ms
Min: -43.3 N
Tmin: 117.6 ms
CFC 1000

PASSENGER NECK FZ (N) vs TIME (ms)
Max: 267.1 N
Tmax: 97.7 ms
Min: -90.4 N
Tmin: 52.7 ms
CFC 1000

PASSENGER NECK FResultant (N) vs TIME (ms)
Max: 290.2 N
Tmax: 97.7 ms
Min: 0.8 N
Tmin: 2.2 ms
CFC 1000
LOW RISK DEPLOYMENT

Test Date: 03/28/07

2006 Dodge RAM (C60304) (12 month Century Encore Trial 6)

Injury Values Calculated between 0ms and 135ms

### PASSENGER NECK MX (Nm) vs TIME (ms)
- Max: 1.0 Nm
- Tmax: 76.9 ms
- Min: -2.8 Nm
- Tmin: 110.8 ms

### PASSENGER NECK MY (Nm) vs TIME (ms)
- Max: 5.6 Nm
- Tmax: 29.8 ms
- Min: -4.6 Nm
- Tmin: 98.1 ms

### PASSENGER NECK MZ (Nm) vs TIME (ms)
- Max: 2.9 Nm
- Tmax: 59.6 ms
- Min: -2.1 Nm
- Tmin: 133.9 ms

### Pass. Occipital Condyle Moment (Nm) vs TIME (ms)
- Max: 5.2 Nm
- Tmax: 29.9 ms
- Min: -3.9 Nm
- Tmin: 98.1 ms
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (12 month Century Encore Trial 6)

Injury Values Calculated between 0ms and 135ms

**PASSENGER CHEST X (G's) vs TIME (ms)**
- Max: 14.0 G's
- Tmax: 28.8 ms
- Min: -8.1 G's
- Tmin: 94.5 ms
- CFC 180

**PASSENGER CHEST Y (G's) vs TIME (ms)**
- Max: 4.4 G's
- Tmax: 31.1 ms
- Min: -2.2 G's
- Tmin: 86.8 ms
- CFC 180

**PASSENGER CHEST Z (G's) vs TIME (ms)**
- Max: 6.6 G's
- Tmax: 96.9 ms
- Min: -6.6 G's
- Tmin: 27.5 ms
- CFC 180

**PASSENGER CHEST Resultant (G's) vs TIME (ms)**
- Max: 15.4 G's
- Tmax: 28.5 ms
- Min: 0.0 G's
- Tmin: 3.6 ms
- CFC 180
LOW RISK DEPLOYMENT  
Test Date: 03/28/07  
2006 Dodge RAM (C60304) (12 month Century Encore Trial 6)

Injury Values Calculated between 0ms and 135ms

### PASSENGER CHEST X Velocity (kph) vs TIME (ms)
- **Max:** 8.4 kph  
- **Tmax:** 72.3 ms  
- **Min:** -0.0 kph  
- **Tmin:** 0.2 ms  
- CFC 180

### PASSENGER CHEST Y Velocity (kph) vs TIME (ms)
- **Max:** 2.9 kph  
- **Tmax:** 58.6 ms  
- **Min:** -0.1 kph  
- **Tmin:** 135.0 ms  
- CFC 180

### PASSENGER CHEST Z Velocity (kph) vs TIME (ms)
- **Max:** 5.5 kph  
- **Tmax:** 135.0 ms  
- **Min:** -4.1 kph  
- **Tmin:** 67.5 ms  
- CFC 180
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (12 month Century Encore Trial 6)

Test Date: 03/28/07

Injury Values Calculated between 0ms and 135ms

FIRE VOLTAGE #1 (Volts) vs TIME (ms)
Max: 16.3 Volts
Tmax: 0.7 ms
Min: 0.8 Volts
Tmin: 15.3 ms
CFC 1000

FIRE CURRENT #1 (Amps) vs TIME (ms)
Max: 1.6 Amps
Tmax: 0.3 ms
Min: -0.0 Amps
Tmin: 73.7 ms
CFC 1000

FIRE VOLTAGE #2 (Volts) vs TIME (ms)
Max: 5.9 Volts
Tmax: 10.3 ms
Min: -0.2 Volts
Tmin: 38.5 ms
CFC 1000

FIRE CURRENT #2 (Amps) vs TIME (ms)
Max: 5.8 Amps
Tmax: 13.0 ms
Min: -0.0 Amps
Tmin: 9.7 ms
CFC 1000
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (12 month Century Encore Trial 6)

Test Date: 03/28/07

PASS. nij (NTF) () vs TIME SPECIAL CHS (ms)
Max: 0.2
Tmax: 28.1 ms
Min: 0.0
Tmin: 0.2 ms
CFC 600

Pass. nij (NTE) () vs TIME SPECIAL CHS (ms)
Max: 0.4
Tmax: 98.0 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Pass. nij (NCF) () vs TIME SPECIAL CHS (ms)
Max: 0.1
Tmax: 32.0 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Pass. nij (NCE) () vs TIME SPECIAL CHS (ms)
Max: 0.0
Tmax: 13.9 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

B-66
LOW RISK DEPLOYMENT
Test Date: 03/28/07
2006 Dodge RAM (C60304) (12 month Evenflo Medallion)

Injury Values Calculated between 0ms and 135ms

PASSENGER HEAD X (G's) vs TIME (ms)
Max: 40.4 G's
Tmax: 24.2 ms
Min: -3.1 G's
Tmin: 106.1 ms
CFC 1000

PASSENGER HEAD Y (G's) vs TIME (ms)
Max: 6.1 G's
Tmax: 24.8 ms
Min: -0.9 G's
Tmin: 131.3 ms
CFC 1000

PASSENGER HEAD Z (G's) vs TIME (ms)
Max: 10.0 G's
Tmax: 104.2 ms
Min: -11.7 G's
Tmin: 23.2 ms
CFC 1000

PASSENGER HEAD Resultant (G's) vs TIME (ms)
Max: 41.5 G's
Tmax: 24.2 ms
Min: 0.0 G's
Tmin: 0.3 ms
CFC 1000
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (12 month Evenflo Medallion)

Test Date: 03/28/07

Injury Values Calculated between 0ms and 135ms

PASSENGER HEAD X Velocity (kph) vs TIME (ms)
Max: 14.8 kph
Tmax: 55.4 ms
Min: 0.0 kph
Tmin: 4.8 ms
CFC 180

PASSENGER HEAD Y Velocity (kph) vs TIME (ms)
Max: 2.7 kph
Tmax: 52.6 ms
Min: -0.0 kph
Tmin: 17.2 ms
CFC 180

PASSENGER HEAD Z Velocity (kph) vs TIME (ms)
Max: 5.7 kph
Tmax: 135.0 ms
Min: -4.8 kph
Tmin: 72.9 ms
CFC 180
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (12 month Evenflo Medallion)

Test Date: 03/28/07

Injury Values Calculated between 0ms and 135ms

**PASSENGER NECK FX (N) vs TIME (ms)**

- Max: 108.4 N
- Tmax: 27.0 ms
- Min: -72.9 N
- Tmin: 104.8 ms
- CFC 1000

**PASSENGER NECK FY (N) vs TIME (ms)**

- Max: 37.7 N
- Tmax: 42.4 ms
- Min: -24.0 N
- Tmin: 127.8 ms
- CFC 1000

**PASSENGER NECK FZ (N) vs TIME (ms)**

- Max: 257.7 N
- Tmax: 102.6 ms
- Min: -84.8 N
- Tmin: 32.7 ms
- CFC 1000

**PASSENGER NECK FResultant (N) vs TIME (ms)**

- Max: 265.6 N
- Tmax: 102.7 ms
- Min: 0.5 N
- Tmin: 7.7 ms
- CFC 1000
LOW RISK DEPLOYMENT
Test Date: 03/28/07
2006 Dodge RAM (C60304) (12 month Evenflo Medallion)

Injury Values Calculated between 0ms and 135ms

PASSENGER NECK MX (Nm) vs TIME (ms)
Max: 0.8 Nm
Tmax: 51.1 ms
Min: -1.5 Nm
Tmin: 126.9 ms
CFC 600

PASSENGER NECK MY (Nm) vs TIME (ms)
Max: 6.6 Nm
Tmax: 27.1 ms
Min: -4.3 Nm
Tmin: 106.3 ms
CFC 600

PASSENGER NECK MZ (Nm) vs TIME (ms)
Max: 1.2 Nm
Tmax: 48.6 ms
Min: -0.9 Nm
Tmin: 132.7 ms
CFC 600

Pass. Occipital Condyle Moment (Nm) vs TIME (ms)
Max: 5.9 Nm
Tmax: 27.1 ms
Min: -3.9 Nm
Tmin: 106.3 ms
CFC 600
LOW RISK DEPLOYMENT
Test Date: 03/28/07
2006 Dodge RAM (C60304) (12 month Evenflo Medallion)

Injury Values Calculated between 0ms and 135ms

**PASSENGER CHEST X (G's) vs TIME (ms)**
- Max: 21.2 G's
- Tmax: 23.5 ms
- Min: -5.6 G's
- Tmin: 101.8 ms
- CFC 180

**PASSENGER CHEST Y (G's) vs TIME (ms)**
- Max: 3.1 G's
- Tmax: 33.0 ms
- Min: -1.5 G's
- Tmin: 103.9 ms
- CFC 180

**PASSENGER CHEST Z (G's) vs TIME (ms)**
- Max: 6.7 G's
- Tmax: 101.6 ms
- Min: -11.3 G's
- Tmin: 23.6 ms
- CFC 180

**PASSENGER CHEST Resultant (G's) vs TIME (ms)**
- Max: 24.0 G's
- Tmax: 23.5 ms
- Min: 0.0 G's
- Tmin: 3.8 ms
- CFC 180
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (12 month Evenflo Medallion)

Test Date: 03/28/07

Injury Values Calculated between 0ms and 135ms

PASSENGER CHEST X Velocity (kph) vs TIME (ms)
- Max: 10.2 kph
- Tmax: 47.6 ms
- Min: -0.0 kph
- Tmin: 2.3 ms
- CFC 180

PASSENGER CHEST Y Velocity (kph) vs TIME (ms)
- Max: 1.4 kph
- Tmax: 50.1 ms
- Min: -0.0 kph
- Tmin: 135.0 ms
- CFC 180

PASSENGER CHEST Z Velocity (kph) vs TIME (ms)
- Max: 1.6 kph
- Tmax: 135.0 ms
- Min: -4.6 kph
- Tmin: 75.0 ms
- CFC 180
LOW RISK DEPLOYMENT
Test Date: 03/28/07
2006 Dodge RAM (C60304) (12 month Evenflo Medallion)

Injury Values Calculated between 0ms and 135ms

FIRE VOLTAGE #1 (Volts) vs TIME (ms)
- Max: 16.2 Volts
- Tmax: 0.7 ms
- Min: 0.7 Volts
- Tmin: 13.0 ms
- CFC 1000

FIRE CURRENT #1 (Amps) vs TIME (ms)
- Max: 1.6 Amps
- Tmax: 0.2 ms
- Min: -0.0 Amps
- Tmin: 95.5 ms
- CFC 1000

FIRE VOLTAGE #2 (Volts) vs TIME (ms)
- Max: 5.8 Volts
- Tmax: 10.2 ms
- Min: -0.3 Volts
- Tmin: 33.2 ms
- CFC 1000

FIRE CURRENT #2 (Amps) vs TIME (ms)
- Max: 5.8 Amps
- Tmax: 12.9 ms
- Min: -0.1 Amps
- Tmin: 9.7 ms
- CFC 1000
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (12 month Evenflo Medallion)

Test Date: 03/28/07

PASS. nij (NTF) () vs TIME SPECIAL CHS (ms)
Max: 0.2
Tmax: 27.8 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

PASS. nij (NTE) () vs TIME SPECIAL CHS (ms)
Max: 0.4
Tmax: 105.0 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

PASS. nij (NCF) () vs TIME SPECIAL CHS (ms)
Max: 0.1
Tmax: 31.4 ms
Min: 0.0
Tmin: 1.1 ms
CFC 600

PASS. nij (NCE) () vs TIME SPECIAL CHS (ms)
Max: 0.0
Tmax: 38.2 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600
LOW RISK DEPLOYMENT  
2006 Dodge RAM (C60304) (12 month Britax Roundabout)  

Test Date: 03/28/07

Injury Values Calculated between 0ms and 135ms

PASSENGER HEAD X (G's) vs TIME (ms)
- Max: 51.2 G's  
  Tmax: 25.0 ms  
  Min: -11.7 G's  
  Tmin: 135.0 ms  
  CFC 1000

PASSENGER HEAD Y (G's) vs TIME (ms)
- Max: 6.2 G's  
  Tmax: 29.1 ms  
  Min: -2.5 G's  
  Tmin: 135.0 ms  
  CFC 1000

PASSENGER HEAD Z (G's) vs TIME (ms)
- Max: 10.2 G's  
  Tmax: 106.5 ms  
  Min: -4.7 G's  
  Tmin: 21.2 ms  
  CFC 1000

PASSENGER HEAD Resultant (G's) vs TIME (ms)
- Max: 51.4 G's  
  Tmax: 25.0 ms  
  Min: 0.0 G's  
  Tmin: 0.8 ms  
  CFC 1000
LOW RISK DEPLOYMENT
Test Date: 03/28/07
2006 Dodge RAM (C60304) (12 month Britax Roundabout)

Injury Values Calculated between 0ms and 135ms

PASSENGER HEAD X Velocity (kph) vs TIME (ms)
Max: 19.9 kph
Tmax: 66.7 ms
Min: 0.0 kph
Tmin: 3.5 ms
CFC 180

PASSENGER HEAD Y Velocity (kph) vs TIME (ms)
Max: 2.6 kph
Tmax: 121.5 ms
Min: -0.0 kph
Tmin: 17.9 ms
CFC 180

PASSENGER HEAD Z Velocity (kph) vs TIME (ms)
Max: 13.6 kph
Tmax: 135.0 ms
Min: -1.2 kph
Tmin: 28.4 ms
CFC 180
LOW RISK DEPLOYMENT  
Test Date: 03/28/07  
2006 Dodge RAM (C60304) (12 month Britax Roundabout)

Injury Values Calculated between 0ms and 135ms

**PASSENGER NECK FX (N) vs TIME (ms)**
- Max: 41.3 N
- Tmax: 25.8 ms
- Min: -116.5 N
- Tmin: 34.8 ms

**PASSENGER NECK FY (N) vs TIME (ms)**
- Max: 46.7 N
- Tmax: 52.3 ms
- Min: -22.6 N
- Tmin: 32.5 ms

**PASSENGER NECK FZ (N) vs TIME (ms)**
- Max: 261.3 N
- Tmax: 106.3 ms
- Min: -30.4 N
- Tmin: 32.7 ms

**PASSENGER NECK FResultant (N) vs TIME (ms)**
- Max: 282.0 N
- Tmax: 106.3 ms
- Min: 0.7 N
- Tmin: 6.6 ms
LOW RISK DEPLOYMENT

Test Date: 03/28/07

2006 Dodge RAM (C60304) (12 month Britax Roundabout)

Injury Values Calculated between 0ms and 135ms

**PASSENGER NECK MX (Nm) vs TIME (ms)**

- Max: 1.4 Nm
- Tmax: 58.2 ms
- Min: -1.4 Nm
- Tmin: 42.6 ms
- CFC 600

**PASSENGER NECK MY (Nm) vs TIME (ms)**

- Max: 3.4 Nm
- Tmax: 25.7 ms
- Min: -4.1 Nm
- Tmin: 103.6 ms
- CFC 600

**PASSENGER NECK MZ (Nm) vs TIME (ms)**

- Max: 1.8 Nm
- Tmax: 39.1 ms
- Min: -1.4 Nm
- Tmin: 134.8 ms
- CFC 600

**Pass. Occipital Condyle Moment (Nm) vs TIME (ms)**

- Max: 3.2 Nm
- Tmax: 26.2 ms
- Min: -3.6 Nm
- Tmin: 103.6 ms
- CFC 600
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (12 month Britax Roundabout)

Test Date: 03/28/07

PASSENGER CHEST X (G's) vs TIME (ms)

Max: 20.7 G's
Tmax: 28.1 ms
Min: -7.0 G's
Tmin: 96.9 ms
CFC 180

PASSENGER CHEST Y (G's) vs TIME (ms)

Max: 4.7 G's
Tmax: 31.9 ms
Min: -3.1 G's
Tmin: 66.2 ms
CFC 180

PASSENGER CHEST Z (G's) vs TIME (ms)

Max: 6.2 G's
Tmax: 135.0 ms
Min: -4.9 G's
Tmin: 22.7 ms
CFC 180

PASSENGER CHEST Resultant (G's) vs TIME (ms)

Max: 21.0 G's
Tmax: 28.2 ms
Min: 0.0 G's
Tmin: 3.0 ms
CFC 180

Injury Values Calculated between 0ms and 135ms
LOW RISK DEPLOYMENT  
2006 Dodge RAM (C60304) (12 month Britax Roundabout)  

Test Date: 03/28/07

Injury Values Calculated between 0ms and 135ms

PASSENGER CHEST X Velocity (kph) vs TIME (ms)

Max: 14.8 kph  
Tmax: 61.1 ms  
Min: -0.0 kph  
Tmin: 4.6 ms

CFC 180

PASSENGER CHEST Y Velocity (kph) vs TIME (ms)

Max: 1.1 kph  
Tmax: 56.9 ms  
Min: -1.0 kph  
Tmin: 135.0 ms

CFC 180

PASSENGER CHEST Z Velocity (kph) vs TIME (ms)

Max: 5.5 kph  
Tmax: 135.0 ms  
Min: -0.9 kph  
Tmin: 27.7 ms

CFC 180
LOW RISK DEPLOYMENT Test Date: 03/28/07
2006 Dodge RAM (C60304) (12 month Britax Roundabout)

Injury Values Calculated between 0ms and 135ms

FIRE VOLTAGE #1 (Volts) vs TIME (ms)
Max: 16.1 Volts
Tmax: 0.7 ms
Min: 0.8 Volts
Tmin: 13.3 ms
CFC 1000

FIRE CURRENT #1 (Amps) vs TIME (ms)
Max: 1.6 Amps
Tmax: 0.3 ms
Min: -0.0 Amps
Tmin: 60.8 ms
CFC 1000

FIRE VOLTAGE #2 (Volts) vs TIME (ms)
Max: 12.1 Volts
Tmax: 11.0 ms
Min: -0.1 Volts
Tmin: 9.8 ms
CFC 1000

FIRE CURRENT #2 (Amps) vs TIME (ms)
Max: 6.0 Amps
Tmax: 13.3 ms
Min: -0.2 Amps
Tmin: 13.8 ms
CFC 1000
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (12 month Britax Roundabout)

Test Date: 03/28/07

PASS. nij (NTF) () vs TIME SPECIAL CHS (ms)
- Max: 0.2
- Tmax: 26.5 ms
- Min: 0.0
- Tmin: 0.2 ms

PASS. nij (NTE) () vs TIME SPECIAL CHS (ms)
- Max: 0.4
- Tmax: 103.7 ms
- Min: 0.0
- Tmin: 0.1 ms

PASS. nij (NCF) () vs TIME SPECIAL CHS (ms)
- Max: 0.0
- Tmax: 30.7 ms
- Min: 0.0
- Tmin: 0.1 ms

PASS. nij (NCE) () vs TIME SPECIAL CHS (ms)
- Max: 0.2
- Tmax: 36.8 ms
- Min: 0.0
- Tmin: 0.1 ms
LOW RISK DEPLOYMENT
Test Date: 03/28/07
2006 Dodge RAM (C60304) (12 month Britax HandleWCare)

Injury Values Calculated between 0ms and 135ms

**PASSENGER HEAD X (G's) vs TIME (ms)**
- Max: 5.4 G's
- Tmax: 79.0 ms
- Min: -8.7 G's
- Tmin: 37.4 ms
- CFC 1000

**PASSENGER HEAD Y (G's) vs TIME (ms)**
- Max: 8.1 G's
- Tmax: 35.2 ms
- Min: -5.1 G's
- Tmin: 37.4 ms
- CFC 1000

**PASSENGER HEAD Z (G's) vs TIME (ms)**
- Max: 6.5 G's
- Tmax: 34.8 ms
- Min: -3.2 G's
- Tmin: 69.9 ms
- CFC 1000

**PASSENGER HEAD Resultant (G's) vs TIME (ms)**
- Max: 10.4 G's
- Tmax: 37.5 ms
- Min: 0.0 G's
- Tmin: 3.0 ms
- CFC 1000
LOW RISK DEPLOYMENT  
Test Date: 03/28/07  
2006 Dodge RAM (C60304) (12 month Britax HandleWCare)

Injury Values Calculated between 0ms and 135ms

**PASSENGER HEAD X Velocity (kph) vs TIME (ms)**

- Max: 1.0 kph
- Tmax: 135.0 ms
- Min: -4.2 kph
- Tmin: 69.5 ms
- CFC 180

**PASSENGER HEAD Y Velocity (kph) vs TIME (ms)**

- Max: 1.1 kph
- Tmax: 135.0 ms
- Min: -0.4 kph
- Tmin: 72.6 ms
- CFC 180

**PASSENGER HEAD Z Velocity (kph) vs TIME (ms)**

- Max: 2.1 kph
- Tmax: 59.6 ms
- Min: -0.8 kph
- Tmin: 112.5 ms
- CFC 180
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (12 month Britax HandleWCare)

Test Date: 03/28/07

Injury Values Calculated between 0ms and 135ms

PASSENGER NECK FX (N) vs TIME (ms)
Max: 60.7 N
Tmax: 40.0 ms
Min: -17.7 N
Tmin: 71.8 ms
CFC 1000

PASSENGER NECK FY (N) vs TIME (ms)
Max: 65.9 N
Tmax: 47.1 ms
Min: -25.8 N
Tmin: 61.8 ms
CFC 1000

PASSENGER NECK FZ (N) vs TIME (ms)
Max: 17.4 N
Tmax: 134.7 ms
Min: -176.9 N
Tmin: 49.9 ms
CFC 1000

PASSENGER NECK FResultant (N) vs TIME (ms)
Max: 183.3 N
Tmax: 49.9 ms
Min: 0.7 N
Tmin: 23.3 ms
CFC 1000
LOW RISK DEPLOYMENT
Test Date: 03/28/07
2006 Dodge RAM (C60304) (12 month Britax HandleWCare)

Injury Values Calculated between 0ms and 135ms

PASSENGER NECK MX (Nm) vs TIME (ms)
Max: 1.3 Nm
Tmax: 33.9 ms
Min: -3.8 Nm
Tmin: 48.2 ms
CFC 600

PASSENGER NECK MY (Nm) vs TIME (ms)
Max: 2.6 Nm
Tmax: 41.4 ms
Min: -0.9 Nm
Tmin: 33.8 ms
CFC 600

PASSENGER NECK MZ (Nm) vs TIME (ms)
Max: 2.5 Nm
Tmax: 68.2 ms
Min: -0.1 Nm
Tmin: 35.4 ms
CFC 600

Pass. Occipital Condyle Moment (Nm) vs TIME (ms)
Max: 2.4 Nm
Tmax: 49.4 ms
Min: -0.9 Nm
Tmin: 33.9 ms
CFC 600
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (12 month Britax HandleWCare)

Test Date: 03/28/07

Injury Values Calculated between 0ms and 135ms

PASSENGER CHEST X (G's) vs TIME (ms)

Max: 3.7 G's
Tmax: 74.3 ms
Min: -5.9 G's
Tmin: 40.2 ms
CFC 180

PASSENGER CHEST Y (G's) vs TIME (ms)

Max: 1.3 G's
Tmax: 58.3 ms
Min: -2.5 G's
Tmin: 47.0 ms
CFC 180

PASSENGER CHEST Z (G's) vs TIME (ms)

Max: 4.3 G's
Tmax: 42.5 ms
Min: -2.6 G's
Tmin: 70.2 ms
CFC 180

PASSENGER CHEST Resultant (G's) vs TIME (ms)

Max: 6.2 G's
Tmax: 40.2 ms
Min: 0.0 G's
Tmin: 2.7 ms
CFC 180
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (12 month Britax HandleWCare)

Test Date: 03/28/07

Injury Values Calculated between 0ms and 135ms

**PASSENGER CHEST X Velocity (kph) vs TIME (ms)**
- Max: 1.6 kph
- Tmax: 135.0 ms
- Min: -3.0 kph
- Tmin: 65.0 ms
- CFC 180

**PASSENGER CHEST Y Velocity (kph) vs TIME (ms)**
- Max: 0.4 kph
- Tmax: 125.7 ms
- Min: -0.4 kph
- Tmin: 53.9 ms
- CFC 180

**PASSENGER CHEST Z Velocity (kph) vs TIME (ms)**
- Max: 1.7 kph
- Tmax: 52.9 ms
- Min: -0.8 kph
- Tmin: 108.4 ms
- CFC 180
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (12 month Britax HandleWCare)

Test Date: 03/28/07

Injury Values Calculated between 0ms and 135ms

FIRE VOLTAGE #1 (Volts) vs TIME (ms)
Max: 15.6 Volts
Tmax: 0.9 ms
Min: 0.7 Volts
Tmin: 13.3 ms
CFC 1000

FIRE CURRENT #1 (Amps) vs TIME (ms)
Max: 1.6 Amps
Tmax: 0.3 ms
Min: -0.0 Amps
Tmin: 121.4 ms
CFC 1000

FIRE VOLTAGE #2 (Volts) vs TIME (ms)
Max: 4.6 Volts
Tmax: 10.3 ms
Min: -0.1 Volts
Tmin: 9.8 ms
CFC 1000

FIRE CURRENT #2 (Amps) vs TIME (ms)
Max: 5.8 Amps
Tmax: 13.0 ms
Min: -0.0 Amps
Tmin: 20.5 ms
CFC 1000
LOW RISK DEPLOYMENT
Test Date: 03/28/07
2006 Dodge RAM (C60304) (12 month Britax HandleWCare)

PASS. nij (NTF) () vs TIME SPECIAL CHS (ms)
- Max: 0.0
- Tmax: 87.8 ms
- Min: 0.0
- Tmin: 0.5 ms
- CFC 600

Pass. nij (NTE) () vs TIME SPECIAL CHS (ms)
- Max: 0.1
- Tmax: 134.7 ms
- Min: 0.0
- Tmin: 0.1 ms
- CFC 600

Pass. nij (NCF) () vs TIME SPECIAL CHS (ms)
- Max: 0.2
- Tmax: 49.7 ms
- Min: 0.0
- Tmin: 0.1 ms
- CFC 600

Pass. nij (NCE) () vs TIME SPECIAL CHS (ms)
- Max: 0.1
- Tmax: 33.4 ms
- Min: 0.0
- Tmin: 0.1 ms
- CFC 600
LOW RISK DEPLOYMENT

Test Date: 03/28/07

2006 Dodge RAM (C60304) (12 month Graco Infant)

Injury Values Calculated between 0ms and 135ms

PASSENGER HEAD X (G's) vs TIME (ms)

Max: 17.2 G's
Tmax: 35.0 ms
Min: -9.6 G's
Tmin: 48.3 ms
CFC 1000

PASSENGER HEAD Y (G's) vs TIME (ms)

Max: 10.2 G's
Tmax: 37.0 ms
Min: -3.0 G's
Tmin: 34.3 ms
CFC 1000

PASSENGER HEAD Z (G's) vs TIME (ms)

Max: 12.8 G's
Tmax: 34.5 ms
Min: -4.4 G's
Tmin: 51.9 ms
CFC 1000

PASSENGER HEAD Resultant (G's) vs TIME (ms)

Max: 20.2 G's
Tmax: 34.8 ms
Min: 0.0 G's
Tmin: 0.6 ms
CFC 1000
LOW RISK DEPLOYMENT
Test Date: 03/28/07
2006 Dodge RAM (C60304) (12 month Graco Infant)

Injury Values Calculated between 0ms and 135ms

PASSENGER HEAD X Velocity (kph) vs TIME (ms)
Max: 2.3 kph
Tmax: 42.8 ms
Min: -2.2 kph
Tmin: 92.9 ms
CFC 180

PASSENGER HEAD Y Velocity (kph) vs TIME (ms)
Max: 1.6 kph
Tmax: 52.6 ms
Min: -0.5 kph
Tmin: 124.6 ms
CFC 180

PASSENGER HEAD Z Velocity (kph) vs TIME (ms)
Max: 1.8 kph
Tmax: 48.8 ms
Min: -0.6 kph
Tmin: 92.6 ms
CFC 180
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) (12 month Graco Infant)

Test Date: 03/28/07

Injury Values Calculated between 0ms and 135ms

PASSENGER NECK FX (N) vs TIME (ms)
Max: 63.1 N
Tmax: 34.5 ms
Min: -82.1 N
Tmin: 53.6 ms
CFC 1000

PASSENGER NECK FY (N) vs TIME (ms)
Max: 15.0 N
Tmax: 36.7 ms
Min: -41.4 N
Tmin: 60.9 ms
CFC 1000

PASSENGER NECK FZ (N) vs TIME (ms)
Max: 42.7 N
Tmax: 130.4 ms
Min: -229.6 N
Tmin: 35.1 ms
CFC 1000

PASSENGER NECK FResultant (N) vs TIME (ms)
Max: 236.0 N
Tmax: 35.0 ms
Min: 0.6 N
Tmin: 3.5 ms
CFC 1000
LOW RISK DEPLOYMENT
Test Date: 03/28/07
2006 Dodge RAM (C60304) (12 month Graco Infant)

Injury Values Calculated between 0ms and 135ms

**PASSENGER NECK MX (Nm) vs TIME (ms)**
- Max: 1.5 Nm
- Tmax: 73.6 ms
- Min: -0.8 Nm
- Tmin: 102.6 ms
- CFC 600

**PASSENGER NECK MY (Nm) vs TIME (ms)**
- Max: 6.2 Nm
- Tmax: 41.6 ms
- Min: -0.8 Nm
- Tmin: 129.4 ms
- CFC 600

**PASSENGER NECK MZ (Nm) vs TIME (ms)**
- Max: 0.3 Nm
- Tmax: 134.5 ms
- Min: -2.2 Nm
- Tmin: 63.6 ms
- CFC 600

**Pass. Occipital Condyle Moment (Nm) vs TIME (ms)**
- Max: 6.1 Nm
- Tmax: 41.6 ms
- Min: -0.9 Nm
- Tmin: 129.4 ms
- CFC 600
LOW RISK DEPLOYMENT  
Test Date: 03/28/07  
2006 Dodge RAM (C60304) (12 month Graco Infant)

Injury Values Calculated between 0ms and 135ms

PASSENGER CHEST X (G's) vs TIME (ms)

Max: 2.9 G's  
Tmax: 53.8 ms  
Min: -6.2 G's  
Tmin: 35.1 ms  
CFC 180

PASSENGER CHEST Y (G's) vs TIME (ms)

Max: 0.8 G's  
Tmax: 59.3 ms  
Min: -0.8 G's  
Tmin: 37.5 ms  
CFC 180

PASSENGER CHEST Z (G's) vs TIME (ms)

Max: 5.9 G's  
Tmax: 34.9 ms  
Min: -3.3 G's  
Tmin: 63.9 ms  
CFC 180

PASSENGER CHEST Resultant (G's) vs TIME (ms)

Max: 8.5 G's  
Tmax: 35.0 ms  
Min: 0.0 G's  
Tmin: 3.4 ms  
CFC 180
LOW RISK DEPLOYMENT
Test Date: 03/28/07
2006 Dodge RAM (C60304) (12 month Graco Infant)

Injury Values Calculated between 0ms and 135ms

PASSENGER CHEST X Velocity (kph) vs TIME (ms)
- Max: 0.2 kph
- Tmax: 112.8 ms
- Min: -0.9 kph
- Tmin: 43.0 ms
- CFC 180

PASSENGER CHEST Y Velocity (kph) vs TIME (ms)
- Max: 0.3 kph
- Tmax: 112.1 ms
- Min: -0.1 kph
- Tmin: 81.4 ms
- CFC 180

PASSENGER CHEST Z Velocity (kph) vs TIME (ms)
- Max: 1.6 kph
- Tmax: 50.8 ms
- Min: -1.0 kph
- Tmin: 94.6 ms
- CFC 180
LOW RISK DEPLOYMENT
Test Date: 03/28/07
2006 Dodge RAM (C60304) (12 month Graco Infant)

Injury Values Calculated between 0ms and 135ms

FIRE VOLTAGE #1 (Volts) vs TIME (ms)
Max: 16.1 Volts
Tmax: 0.9 ms
Min: 1.2 Volts
Tmin: 17.6 ms
CFC 1000

FIRE CURRENT #1 (Amps) vs TIME (ms)
Max: 1.6 Amps
Tmax: 0.3 ms
Min: -0.0 Amps
Tmin: 64.5 ms
CFC 1000

FIRE VOLTAGE #2 (Volts) vs TIME (ms)
Max: 16.1 Volts
Tmax: 10.9 ms
Min: -0.1 Volts
Tmin: 133.6 ms
CFC 1000

FIRE CURRENT #2 (Amps) vs TIME (ms)
Max: 3.7 Amps
Tmax: 10.6 ms
Min: -0.1 Amps
Tmin: 20.6 ms
CFC 1000
LOW RISK DEPLOYMENT

Test Date: 03/28/07

2006 Dodge RAM (C60304) (12 month Graco Infant)

PASS. nij (NTF) () vs TIME SPECIAL CHS (ms)

Max: 0.0
Tmax: 103.5 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Pass. nij (NTE) () vs TIME SPECIAL CHS (ms)

Max: 0.1
Tmax: 129.4 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Pass. nij (NCF) () vs TIME SPECIAL CHS (ms)

Max: 0.3
Tmax: 35.6 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Pass. nij (NCE) () vs TIME SPECIAL CHS (ms)

Max: 0.1
Tmax: 60.2 ms
Min: 0.0
Tmin: 0.2 ms
CFC 600
LOW RISK DEPLOYMENT
Test Date: 03/28/07
2006 Dodge RAM (C60304) (12 month Evenflo 1st Choice Trial 11)

Injury Values Calculated between 0ms and 135ms

PASSENGER HEAD X (G's) vs TIME (ms)
Max: 6.2 G's
Tmax: 34.2 ms
Min: -6.3 G's
Tmin: 49.5 ms
CFC 1000

PASSENGER HEAD Y (G's) vs TIME (ms)
Max: 11.4 G's
Tmax: 37.2 ms
Min: -4.0 G's
Tmin: 52.3 ms
CFC 1000

PASSENGER HEAD Z (G's) vs TIME (ms)
Max: 4.9 G's
Tmax: 33.7 ms
Min: -1.7 G's
Tmin: 43.9 ms
CFC 1000

PASSENGER HEAD Resultant (G's) vs TIME (ms)
Max: 11.8 G's
Tmax: 37.2 ms
Min: 0.0 G's
Tmin: 3.4 ms
CFC 1000
LOW RISK DEPLOYMENT
Test Date: 03/28/07
2006 Dodge RAM (C60304) (12 month Evenflo 1st Choice Trial 11)

Injury Values Calculated between 0ms and 135ms

PASSENGER HEAD X Velocity (kph) vs TIME (ms)
Max: 0.3 kph
Tmax: 36.5 ms
Min: -1.7 kph
Tmin: 96.8 ms
CFC 180

PASSENGER HEAD Y Velocity (kph) vs TIME (ms)
Max: 1.8 kph
Tmax: 46.6 ms
Min: -0.1 kph
Tmin: 34.9 ms
CFC 180

PASSENGER HEAD Z Velocity (kph) vs TIME (ms)
Max: 0.5 kph
Tmax: 68.1 ms
Min: -0.2 kph
Tmin: 114.4 ms
CFC 180
LOW RISK DEPLOYMENT  Test Date: 03/28/07
2006 Dodge RAM (C60304) (12 month Evenflo 1st Choice Trial 11)

Injury Values Calculated between 0ms and 135ms

PASSENGER NECK FX (N) vs TIME (ms)
Max: 15.2 N  Tmax: 119.1 ms
Min: -27.4 N  Tmin: 76.9 ms
CFC 1000

PASSENGER NECK FY (N) vs TIME (ms)
Max: 19.9 N  Tmax: 38.5 ms
Min: -47.2 N  Tmin: 53.0 ms
CFC 1000

PASSENGER NECK FZ (N) vs TIME (ms)
Max: 59.6 N  Tmax: 44.8 ms
Min: -54.5 N  Tmin: 53.7 ms
CFC 1000

PASSENGER NECK FResultant (N) vs TIME (ms)
Max: 74.9 N  Tmax: 53.8 ms
Min: 0.6 N  Tmin: 23.9 ms
CFC 1000
LOW RISK DEPLOYMENT  
Test Date: 03/28/07  
2006 Dodge RAM (C60304) (12 month Evenflo 1st Choice Trial 11)

Injury Values Calculated between 0ms and 135ms

**PASSENGER NECK MX (Nm) vs TIME (ms)**
- Max: 0.9 Nm
- Tmax: 34.0 ms
- Min: -3.5 Nm
- Tmin: 45.1 ms

**PASSENGER NECK MY (Nm) vs TIME (ms)**
- Max: 1.8 Nm
- Tmax: 95.4 ms
- Min: -0.8 Nm
- Tmin: 55.3 ms

**PASSENGER NECK MZ (Nm) vs TIME (ms)**
- Max: 0.9 Nm
- Tmax: 70.7 ms
- Min: -0.5 Nm
- Tmin: 102.5 ms

**Pass. Occipital Condyle Moment (Nm) vs TIME (ms)**
- Max: 1.8 Nm
- Tmax: 95.4 ms
- Min: -0.7 Nm
- Tmin: 55.3 ms
LOW RISK DEPLOYMENT
Test Date: 03/28/07
2006 Dodge RAM (C60304) (12 month Evenflo 1st Choice Trial 11)

Injury Values Calculated between 0ms and 135ms

PASSENGER CHEST X (G's) vs TIME (ms)
- Max: 2.0 G's
- Tmax: 102.3 ms
- Min: -2.0 G's
- Tmin: 43.5 ms
- CFC 180

PASSENGER CHEST Y (G's) vs TIME (ms)
- Max: 1.8 G's
- Tmax: 53.8 ms
- Min: -1.6 G's
- Tmin: 37.3 ms
- CFC 180

PASSENGER CHEST Z (G's) vs TIME (ms)
- Max: 1.7 G's
- Tmax: 46.9 ms
- Min: -0.9 G's
- Tmin: 82.7 ms
- CFC 180

PASSENGER CHEST Resultant (G's) vs TIME (ms)
- Max: 2.4 G's
- Tmax: 43.4 ms
- Min: 0.0 G's
- Tmin: 0.9 ms
- CFC 180
LOW RISK DEPLOYMENT
Test Date: 03/28/07
2006 Dodge RAM (C60304) (12 month Evenflo 1st Choice Trial 11)

Injury Values Calculated between 0ms and 135ms

PASSENGER CHEST X Velocity (kph) vs TIME (ms)
- Max: 0.5 kph
- Tmax: 124.8 ms
- Min: -1.1 kph
- Tmin: 76.2 ms
- CFC 180

PASSENGER CHEST Y Velocity (kph) vs TIME (ms)
- Max: 0.6 kph
- Tmax: 104.0 ms
- Min: -0.2 kph
- Tmin: 46.1 ms
- CFC 180

PASSENGER CHEST Z Velocity (kph) vs TIME (ms)
- Max: 0.4 kph
- Tmax: 67.6 ms
- Min: -0.1 kph
- Tmin: 125.6 ms
- CFC 180
LOW RISK DEPLOYMENT
Test Date: 03/28/07
2006 Dodge RAM (C60304) (12 month Evenflo 1st Choice Trial 11)

Injury Values Calculated between 0ms and 135ms

**FIRE VOLTAGE #1 (Volts) vs TIME (ms)**
- Max: 16.3 Volts
- Tmax: 0.8 ms
- Min: 0.7 Volts
- Tmin: 14.5 ms

**FIRE CURRENT #1 (Amps) vs TIME (ms)**
- Max: 1.6 Amps
- Tmax: 0.3 ms
- Min: -0.0 Amps
- Tmin: 117.7 ms

**FIRE VOLTAGE #2 (Volts) vs TIME (ms)**
- Max: 13.9 Volts
- Tmax: 12.0 ms
- Min: -0.2 Volts
- Tmin: 50.4 ms

**FIRE CURRENT #2 (Amps) vs TIME (ms)**
- Max: 5.6 Amps
- Tmax: 15.8 ms
- Min: -0.1 Amps
- Tmin: 20.5 ms
LOW RISK DEPLOYMENT  
Test Date: 03/28/07  
2006 Dodge RAM (C60304) (12 month Evenflo 1st Choice Trial 11)

PASS. nij (NTF) () vs TIME SPECIAL CHS (ms)
Max: 0.1  
Tmax: 44.9 ms  
Min: 0.0  
Tmin: 0.1 ms  
CFC 600

Pass. nij (NTE) () vs TIME SPECIAL CHS (ms)
Max: 0.0  
Tmax: 135.0 ms  
Min: 0.0  
Tmin: 0.1 ms  
CFC 600

Pass. nij (NCF) () vs TIME SPECIAL CHS (ms)
Max: 0.1  
Tmax: 95.5 ms  
Min: 0.0  
Tmin: 0.1 ms  
CFC 600

Pass. nij (NCE) () vs TIME SPECIAL CHS (ms)
Max: 0.1  
Tmax: 53.8 ms  
Min: 0.0  
Tmin: 0.7 ms  
CFC 600
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) 3YO P1

Test Date: 04/10/07

Injury Values Calculated between 0ms and 100ms

3YR OLD PASSENGER HEAD X (G's) vs TIME (ms)
Max: 4.9 G's
Tmax: 8.9 ms
Min: -28.8 G's
Tmin: 10.3 ms
CFC 1000

3YR OLD PASSENGER HEAD Y (G's) vs TIME (ms)
Max: 5.6 G's
Tmax: 10.9 ms
Min: -6.5 G's
Tmin: 19.8 ms
CFC 1000

3YR OLD PASSENGER HEAD Z (G's) vs TIME (ms)
Max: 8.5 G's
Tmax: 11.6 ms
Min: -5.5 G's
Tmin: 10.5 ms
CFC 1000

3YR OLD PASSENGER HEAD Resultant (G's) vs TIME (ms)
Max: 28.9 G's
Tmax: 10.3 ms
Min: 0.0 G's
Tmin: 0.2 ms
CFC 1000
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) 3YO P1

Test Date: 04/10/07

3YR OLD PASSENGER HEAD X Velocity (kph) vs TIME (ms)
Max: -0.0 kph
Tmax: 0.1 ms
Min: -7.5 kph
Tmin: 52.2 ms
CFC 180

3YR OLD PASSENGER HEAD Y Velocity (kph) vs TIME (ms)
Max: 0.1 kph
Tmax: 12.7 ms
Min: -1.2 kph
Tmin: 62.2 ms
CFC 180

3YR OLD PASSENGER HEAD Z Velocity (kph) vs TIME (ms)
Max: 5.3 kph
Tmax: 100.0 ms
Min: -0.0 kph
Tmin: 11.0 ms
CFC 180

Injury Values Calculated between 0ms and 100ms
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) 3YO P1

Test Date: 04/10/07

Injury Values Calculated between 0ms and 100ms

3YR OLD PASSENGER NECK FX (N) vs TIME (ms)
Max: 142.2 N
Tmax: 16.9 ms
Min: -44.9 N
Tmin: 20.5 ms
CFC 1000

3YR OLD PASSENGER NECK FY (N) vs TIME (ms)
Max: 32.8 N
Tmax: 24.2 ms
Min: -16.3 N
Tmin: 19.2 ms
CFC 1000

3YR OLD PASSENGER NECK FZ (N) vs TIME (ms)
Max: 302.5 N
Tmax: 20.9 ms
Min: -31.7 N
Tmin: 10.3 ms
CFC 1000

3YR OLD PASSENGER NECK FResultant (N) vs TIME (ms)
Max: 302.6 N
Tmax: 21.0 ms
Min: 0.7 N
Tmin: 3.0 ms
CFC 1000
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) 3YO P1

Test Date: 04/10/07

Injury Values Calculated between 0ms and 100ms

3YR OLD PASSENGER NECK MX (Nm) vs TIME (ms)
Max: 1.2 Nm
Tmax: 79.3 ms
Min: -4.8 Nm
Tmin: 24.4 ms
CFC 600

3YR OLD PASSENGER NECK MY (Nm) vs TIME (ms)
Max: 5.8 Nm
Tmax: 16.9 ms
Min: -3.2 Nm
Tmin: 79.2 ms
CFC 600

3YR OLD PASSENGER NECK MZ (Nm) vs TIME (ms)
Max: 3.5 Nm
Tmax: 43.5 ms
Min: -1.0 Nm
Tmin: 83.3 ms
CFC 600

Pass. Occipital Condyle Moment (Nm) vs TIME (ms)
Max: 5.8 Nm
Tmax: 16.9 ms
Min: -3.2 Nm
Tmin: 79.2 ms
CFC 600
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) 3YO P1

Test Date: 04/10/07

Injury Values Calculated between 0ms and 100ms

3YR OLD PASSENGER CHEST X (G's) vs TIME (ms)
Max: 0.9 G's
Tmax: 11.7 ms
Min: -9.4 G's
Tmin: 18.7 ms
CFC 180

3YR OLD PASSENGER CHEST Y (G's) vs TIME (ms)
Max: 2.2 G's
Tmax: 27.7 ms
Min: -2.4 G's
Tmin: 20.6 ms
CFC 180

3YR OLD PASSENGER CHEST Z (G's) vs TIME (ms)
Max: 3.3 G's
Tmax: 23.1 ms
Min: -6.4 G's
Tmin: 20.1 ms
CFC 180

3YR OLD PASSENGER CHEST Resultant (G's) vs TIME (ms)
Max: 10.2 G's
Tmax: 18.9 ms
Min: 0.0 G's
Tmin: 2.7 ms
CFC 180
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304)  3YO P1

Test Date: 04/10/07

Injury Values Calculated between 0ms and 100ms

3YR OLD PASSENGER CHEST X Velocity (kph) vs TIME (ms)
Max: 0.0 kph
Tmax: 0.3 ms
Min: -3.7 kph
Tmin: 64.2 ms
CFC 180

3YR OLD PASSENGER CHEST Y Velocity (kph) vs TIME (ms)
Max: 0.1 kph
Tmax: 17.3 ms
Min: -0.5 kph
Tmin: 93.8 ms
CFC 180

3YR OLD PASSENGER CHEST Z Velocity (kph) vs TIME (ms)
Max: 1.5 kph
Tmax: 100.0 ms
Min: -0.8 kph
Tmin: 21.7 ms
CFC 180

3YR OLD PASSENGER CHEST DISPLACEMENT (mm) vs TIME (ms)
Max: 1.0 mm
Tmax: 26.9 ms
Min: -4.0 mm
Tmin: 19.4 ms
CFC 600
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) 3YO P1

Test Date: 04/10/07

Injury Values Calculated between 0ms and 100ms

FIRE VOLTAGE #1 (Volts) vs TIME (ms)

Max: 16.7 Volts
Tmax: 0.3 ms
Min: -1.2 Volts
Tmin: 10.3 ms
CFC 1000

FIRE CURRENT #1 (Amps) vs TIME (ms)

Max: 2.9 Amps
Tmax: 0.3 ms
Min: -0.0 Amps
Tmin: 10.4 ms
CFC 1000

FIRE VOLTAGE #2 (Volts) vs TIME (ms)

Max: 0.0 Volts
Tmax: 19.4 ms
Min: -0.0 Volts
Tmin: 55.0 ms
CFC 1000

FIRE CURRENT #2 (Amps) vs TIME (ms)

Max: 0.0 Amps
Tmax: 42.7 ms
Min: -0.0 Amps
Tmin: 37.4 ms
CFC 1000
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) 3YO P2

Test Date: 04/10/07

Injury Values Calculated between 0ms and 100ms

3YR OLD PASSENGER HEAD X (G's) vs TIME (ms)
Max: 3.3 G's
Tmax: 51.2 ms
Min: -15.7 G's
Tmin: 16.2 ms
CFC 1000

3YR OLD PASSENGER HEAD Y (G's) vs TIME (ms)
Max: 42.2 G's
Tmax: 16.0 ms
Min: -3.0 G's
Tmin: 39.6 ms
CFC 1000

3YR OLD PASSENGER HEAD Z (G's) vs TIME (ms)
Max: 22.1 G's
Tmax: 16.0 ms
Min: -15.5 G's
Tmin: 16.5 ms
CFC 1000

3YR OLD PASSENGER HEAD Resultant (G's) vs TIME (ms)
Max: 47.7 G's
Tmax: 16.0 ms
Min: 0.0 G's
Tmin: 1.1 ms
CFC 1000
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) 3YO P2

Test Date: 04/10/07

Injury Values Calculated between 0ms and 100ms

3YR OLD PASSENGER HEAD X Velocity (kph) vs TIME (ms)

Max: 1.3 kph
Tmax: 68.9 ms
Min: -0.9 kph
Tmin: 23.3 ms
CFC 180

3YR OLD PASSENGER HEAD Y Velocity (kph) vs TIME (ms)

Max: 1.5 kph
Tmax: 19.2 ms
Min: 0.0 kph
Tmin: 8.7 ms
CFC 180

3YR OLD PASSENGER HEAD Z Velocity (kph) vs TIME (ms)

Max: 0.9 kph
Tmax: 52.9 ms
Min: -0.1 kph
Tmin: 100.0 ms
CFC 180
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) 3YO P2

Test Date: 04/10/07

Injury Values Calculated between 0ms and 100ms

**3YR OLD PASSENGER NECK FX (N) vs TIME (ms)**
- Max: 20.7 N
- Tmax: 59.2 ms
- Min: -83.2 N
- Tmin: 16.1 ms
- CFC 1000

**3YR OLD PASSENGER NECK FY (N) vs TIME (ms)**
- Max: 28.8 N
- Tmax: 15.6 ms
- Min: -43.4 N
- Tmin: 26.3 ms
- CFC 1000

**3YR OLD PASSENGER NECK FZ (N) vs TIME (ms)**
- Max: 30.3 N
- Tmax: 24.8 ms
- Min: -330.2 N
- Tmin: 16.1 ms
- CFC 1000

**3YR OLD PASSENGER NECK FResultant (N) vs TIME (ms)**
- Max: 341.1 N
- Tmax: 16.1 ms
- Min: 0.7 N
- Tmin: 3.4 ms
- CFC 1000
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) 3YO P2

Test Date: 04/10/07

Injury Values Calculated between 0ms and 100ms

3YR OLD PASSENGER NECK MX (Nm) vs TIME (ms)

Max: 0.8 Nm
Tmax: 58.3 ms
Min: -6.4 Nm
Tmin: 18.9 ms
CFC 600

3YR OLD PASSENGER NECK MY (Nm) vs TIME (ms)

Max: 1.4 Nm
Tmax: 59.5 ms
Min: -2.6 Nm
Tmin: 16.1 ms
CFC 600

3YR OLD PASSENGER NECK MZ (Nm) vs TIME (ms)

Max: 1.9 Nm
Tmax: 29.5 ms
Min: -0.8 Nm
Tmin: 72.3 ms
CFC 600

Pass. Occipital Condyle Moment (Nm) vs TIME (ms)

Max: 1.4 Nm
Tmax: 59.5 ms
Min: -2.6 Nm
Tmin: 16.1 ms
CFC 600
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) 3YO P2

Injury Values Calculated between 0ms and 100ms

3YR OLD PASSENGER CHEST X (G's) vs TIME (ms)

Max: 1.5 G's
Tmax: 53.7 ms
Min: -2.1 G's
Tmin: 16.3 ms
CFC 180

3YR OLD PASSENGER CHEST Y (G's) vs TIME (ms)

Max: 1.3 G's
Tmax: 27.2 ms
Min: -1.2 G's
Tmin: 16.5 ms
CFC 180

3YR OLD PASSENGER CHEST Z (G's) vs TIME (ms)

Max: 4.6 G's
Tmax: 16.5 ms
Min: -3.3 G's
Tmin: 20.0 ms
CFC 180

3YR OLD PASSENGER CHEST Resultant (G's) vs TIME (ms)

Max: 5.1 G's
Tmax: 16.5 ms
Min: 0.0 G's
Tmin: 4.4 ms
CFC 180
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) 3YO P2

Test Date: 04/10/07

3YR OLD PASSENGER CHEST X Velocity (kph) vs TIME (ms)
Max: 0.3 kph
Tmax: 100.0 ms
Min: -0.6 kph
Tmin: 46.2 ms
CFC 180

3YR OLD PASSENGER CHEST Y Velocity (kph) vs TIME (ms)
Max: 0.5 kph
Tmax: 45.4 ms
Min: -0.1 kph
Tmin: 19.6 ms
CFC 180

3YR OLD PASSENGER CHEST Z Velocity (kph) vs TIME (ms)
Max: 0.5 kph
Tmax: 18.2 ms
Min: -0.2 kph
Tmin: 100.0 ms
CFC 180

3YR OLD PASSENGER CHEST DISPLACEMENT (mm) vs TIME (ms)
Max: 0.7 mm
Tmax: 17.5 ms
Min: -0.3 mm
Tmin: 25.0 ms
CFC 600
Injury Values Calculated between 0ms and 100ms

FIRE VOLTAGE #1 (Volts) vs TIME (ms)
Max: 16.2 Volts
Tmax: 0.3 ms
Min: -1.2 Volts
Tmin: 10.3 ms
CFC 1000

FIRE CURRENT #1 (Amps) vs TIME (ms)
Max: 4.2 Amps
Tmax: 0.3 ms
Min: -0.0 Amps
Tmin: 26.9 ms
CFC 1000

FIRE VOLTAGE #2 (Volts) vs TIME (ms)
Max: 0.0 Volts
Tmax: 81.5 ms
Min: -0.0 Volts
Tmin: 43.1 ms
CFC 1000

FIRE CURRENT #2 (Amps) vs TIME (ms)
Max: 0.0 Amps
Tmax: 2.9 ms
Min: -0.0 Amps
Tmin: 0.1 ms
CFC 1000
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304)  3YO P2

Test Date: 04/10/07

PASS. nij (NTF) () vs TIME SPECIAL CHS (ms)
Max: 0.0
Tmax: 12.0 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Pass. nij (NTE) () vs TIME SPECIAL CHS (ms)
Max: 0.1
Tmax: 20.4 ms
Min: 0.0
Tmin: 0.3 ms
CFC 600

Pass. nij (NCF) () vs TIME SPECIAL CHS (ms)
Max: 0.0
Tmax: 57.5 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Pass. nij (NCE) () vs TIME SPECIAL CHS (ms)
Max: 0.2
Tmax: 16.1 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) 6YO P1

Test Date: 04/10/07

Injury Values Calculated between 0ms and 100ms

6YR OLD PASSENGER HEAD X (G's) vs TIME (ms)
Max: 2.8 G's
Tmax: 9.2 ms
Min: -10.8 G's
Tmin: 12.0 ms
CFC 1000

6YR OLD PASSENGER HEAD Y (G's) vs TIME (ms)
Max: 3.3 G's
Tmax: 12.7 ms
Min: -4.6 G's
Tmin: 17.9 ms
CFC 1000

6YR OLD PASSENGER HEAD Z (G's) vs TIME (ms)
Max: 5.3 G's
Tmax: 17.4 ms
Min: -3.2 G's
Tmin: 15.8 ms
CFC 1000

6YR OLD PASSENGER HEAD Resultant (G's) vs TIME (ms)
Max: 11.1 G's
Tmax: 17.4 ms
Min: 0.0 G's
Tmin: 3.2 ms
CFC 1000
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) 6YO P1

Test Date: 04/10/07

Injury Values Calculated between 0ms and 100ms

6YR OLD PASSENGER HEAD X Velocity (kph) vs TIME (ms)
Max: 0.0 kph
Tmax: 2.8 ms
Min: -4.7 kph
Tmin: 54.1 ms
CFC 180

6YR OLD PASSENGER HEAD Y Velocity (kph) vs TIME (ms)
Max: 0.1 kph
Tmax: 13.6 ms
Min: -0.8 kph
Tmin: 63.1 ms
CFC 180

6YR OLD PASSENGER HEAD Z Velocity (kph) vs TIME (ms)
Max: 2.5 kph
Tmax: 100.0 ms
Min: -0.0 kph
Tmin: 12.7 ms
CFC 180
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) 6YO P1

Test Date: 04/10/07

Injury Values Calculated between 0ms and 100ms

6YR OLD PASSENGER NECK MX (Nm) vs TIME (ms)
- Max: 0.9 Nm
- Tmax: 19.4 ms
- Min: -0.8 Nm
- Tmin: 25.4 ms
- CFC 600

6YR OLD PASSENGER NECK MY (Nm) vs TIME (ms)
- Max: 8.3 Nm
- Tmax: 23.2 ms
- Min: -2.9 Nm
- Tmin: 80.1 ms
- CFC 600

6YR OLD PASSENGER NECK MZ (Nm) vs TIME (ms)
- Max: 2.6 Nm
- Tmax: 44.5 ms
- Min: -0.9 Nm
- Tmin: 91.9 ms
- CFC 600

Pass. Occipital Condyle Moment (Nm) vs TIME (ms)
- Max: 6.0 Nm
- Tmax: 23.6 ms
- Min: -3.4 Nm
- Tmin: 80.1 ms
- CFC 600
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) 6YO P1

Injury Values Calculated between 0ms and 100ms

6YR OLD PASSENGER CHEST X (G's) vs TIME (ms)
Max: 0.6 G's
Tmax: 12.8 ms
Min: -4.6 G's
Tmin: 22.4 ms
CFC 180

6YR OLD PASSENGER CHEST Y (G's) vs TIME (ms)
Max: 0.4 G's
Tmax: 44.4 ms
Min: -0.8 G's
Tmin: 25.4 ms
CFC 180

6YR OLD PASSENGER CHEST Z (G's) vs TIME (ms)
Max: 1.7 G's
Tmax: 37.2 ms
Min: -1.5 G's
Tmin: 17.3 ms
CFC 180

6YR OLD PASSENGER CHEST Resultant (G's) vs TIME (ms)
Max: 4.6 G's
Tmax: 22.5 ms
Min: 0.0 G's
Tmin: 0.1 ms
CFC 180
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) 6YO P1

Test Date: 04/10/07

6YR OLD PASSENGER CHEST X Velocity (kph) vs TIME (ms)
Max: 0.0 kph
Tmax: 14.4 ms
Min: -2.4 kph
Tmin: 100.0 ms
CFC 180

6YR OLD PASSENGER CHEST Y Velocity (kph) vs TIME (ms)
Max: 0.0 kph
Tmax: 17.0 ms
Min: -0.3 kph
Tmin: 35.9 ms
CFC 180

6YR OLD PASSENGER CHEST Z Velocity (kph) vs TIME (ms)
Max: 0.8 kph
Tmax: 79.2 ms
Min: -0.3 kph
Tmin: 30.8 ms
CFC 180

6YR OLD PASSENGER CHEST DISPLACEMENT (mm) vs TIME (ms)
Max: 0.8 mm
Tmax: 66.0 ms
Min: -0.9 mm
Tmin: 57.3 ms
CFC 600
Injury Values Calculated between 0ms and 100ms

**FIRE VOLTAGE #1 (Volts) vs TIME (ms)**
- Max: 16.4 Volts
- Tmax: 0.3 ms
- Min: -1.0 Volts
- Tmin: 10.3 ms
- CFC 1000

**FIRE CURRENT #1 (Amps) vs TIME (ms)**
- Max: 3.3 Amps
- Tmax: 0.2 ms
- Min: -0.0 Amps
- Tmin: 11.7 ms
- CFC 1000

**FIRE VOLTAGE #2 (Volts) vs TIME (ms)**
- Max: 0.0 Volts
- Tmax: 99.9 ms
- Min: -0.0 Volts
- Tmin: 74.3 ms
- CFC 1000

**FIRE CURRENT #2 (Amps) vs TIME (ms)**
- Max: 0.0 Amps
- Tmax: 94.1 ms
- Min: -0.0 Amps
- Tmin: 65.6 ms
- CFC 1000
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) 6YO P2

Test Date: 04/10/07

Injury Values Calculated between 0ms and 100ms

6YR OLD PASSENGER HEAD X (G's) vs TIME (ms)
- Max: 4.8 G's
- Tmax: 11.1 ms
- Min: -16.4 G's
- Tmin: 14.3 ms
- CFC 1000

6YR OLD PASSENGER HEAD Y (G's) vs TIME (ms)
- Max: 3.9 G's
- Tmax: 15.7 ms
- Min: -11.2 G's
- Tmin: 14.4 ms
- CFC 1000

6YR OLD PASSENGER HEAD Z (G's) vs TIME (ms)
- Max: 11.0 G's
- Tmax: 14.0 ms
- Min: -11.1 G's
- Tmin: 16.0 ms
- CFC 1000

6YR OLD PASSENGER HEAD Resultant (G's) vs TIME (ms)
- Max: 19.4 G's
- Tmax: 14.3 ms
- Min: 0.0 G's
- Tmin: 3.0 ms
- CFC 1000
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) 6YO P2

Test Date: 04/10/07

6YR OLD PASSENGER HEAD X Velocity (kph) vs TIME (ms)
Max: 1.7 kph
Tmax: 68.2 ms
Min: -1.2 kph
Tmin: 26.7 ms
CFC 180

6YR OLD PASSENGER HEAD Y Velocity (kph) vs TIME (ms)
Max: 0.1 kph
Tmax: 13.4 ms
Min: -0.3 kph
Tmin: 52.7 ms
CFC 180

6YR OLD PASSENGER HEAD Z Velocity (kph) vs TIME (ms)
Max: 0.8 kph
Tmax: 14.6 ms
Min: -0.3 kph
Tmin: 89.3 ms
CFC 180

Injury Values Calculated between 0ms and 100ms
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) 6YO P2

Test Date: 04/10/07

Injury Values Calculated between 0ms and 100ms

6YR OLD PASSENGER NECK FX (N) vs TIME (ms)
- Max: 30.8 N
- Tmax: 12.7 ms
- Min: -43.3 N
- Tmin: 18.5 ms
- CFC 1000

6YR OLD PASSENGER NECK FY (N) vs TIME (ms)
- Max: 29.5 N
- Tmax: 14.7 ms
- Min: -14.8 N
- Tmin: 13.4 ms
- CFC 1000

6YR OLD PASSENGER NECK FZ (N) vs TIME (ms)
- Max: 197.1 N
- Tmax: 20.1 ms
- Min: -495.6 N
- Tmin: 14.6 ms
- CFC 1000

6YR OLD PASSENGER NECK FResultant (N) vs TIME (ms)
- Max: 496.3 N
- Tmax: 14.6 ms
- Min: 1.5 N
- Tmin: 4.2 ms
- CFC 1000
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) 6YO P2

Test Date: 04/10/07

Injury Values Calculated between 0ms and 100ms

6YR OLD PASSENGER NECK MX (Nm) vs TIME (ms)
Max: 1.5 Nm
Tmax: 73.5 ms
Min: -1.3 Nm
Tmin: 19.9 ms
CFC 600

6YR OLD PASSENGER NECK MY (Nm) vs TIME (ms)
Max: 2.8 Nm
Tmax: 14.0 ms
Min: -3.4 Nm
Tmin: 46.7 ms
CFC 600

6YR OLD PASSENGER NECK MZ (Nm) vs TIME (ms)
Max: 0.1 Nm
Tmax: 2.1 ms
Min: -0.9 Nm
Tmin: 41.6 ms
CFC 600

Pass. Occipital Condyle Moment (Nm) vs TIME (ms)
Max: 2.5 Nm
Tmax: 14.0 ms
Min: -3.2 Nm
Tmin: 46.5 ms
CFC 600
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) 6YO P2
Test Date: 04/10/07

Injury Values Calculated between 0ms and 100ms

6YR OLD PASSENGER CHEST X (G's) vs TIME (ms)
- Max: 2.8 G's
- Tmax: 19.9 ms
- Min: -3.0 G's
- Tmin: 15.1 ms
- CFC 180

6YR OLD PASSENGER CHEST Y (G's) vs TIME (ms)
- Max: 0.4 G's
- Tmax: 10.6 ms
- Min: -0.6 G's
- Tmin: 20.0 ms
- CFC 180

6YR OLD PASSENGER CHEST Z (G's) vs TIME (ms)
- Max: 4.1 G's
- Tmax: 15.2 ms
- Min: -2.8 G's
- Tmin: 19.7 ms
- CFC 180

6YR OLD PASSENGER CHEST Resultant (G's) vs TIME (ms)
- Max: 5.1 G's
- Tmax: 15.2 ms
- Min: 0.0 G's
- Tmin: 3.9 ms
- CFC 180
LOW RISK DEPLOYMENT
Test Date: 04/10/07

6YR OLD PASSENGER CHEST X Velocity (kph) vs TIME (ms)
Max: 0.5 kph
Tmax: 74.5 ms
Min: -0.4 kph
Tmin: 17.9 ms
CFC 180

6YR OLD PASSENGER CHEST Y Velocity (kph) vs TIME (ms)
Max: 0.1 kph
Tmax: 14.8 ms
Min: -0.1 kph
Tmin: 55.5 ms
CFC 180

6YR OLD PASSENGER CHEST Z Velocity (kph) vs TIME (ms)
Max: 0.6 kph
Tmax: 18.2 ms
Min: -0.4 kph
Tmin: 100.0 ms
CFC 180

6YR OLD PASSENGER CHEST DISPLACEMENT (mm) vs TIME (ms)
Max: 0.3 mm
Tmax: 18.7 ms
Min: -0.1 mm
Tmin: 24.1 ms
CFC 600
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304) 6YO P2

Test Date: 04/10/07

Injury Values Calculated between 0ms and 100ms

FIRE VOLTAGE #1 (Volts) vs TIME (ms)
Max: 17.0 Volts
Tmax: 0.3 ms
Min: -0.8 Volts
Tmin: 10.3 ms

FIRE CURRENT #1 (Amps) vs TIME (ms)
Max: 7.1 Amps
Tmax: 0.5 ms
Min: -0.2 Amps
Tmin: 10.3 ms

FIRE VOLTAGE #2 (Volts) vs TIME (ms)
Max: 0.0 Volts
Tmax: 27.8 ms
Min: -0.0 Volts
Tmin: 21.9 ms

FIRE CURRENT #2 (Amps) vs TIME (ms)
Max: 0.2 Amps
Tmax: 0.5 ms
Min: -0.0 Amps
Tmin: 0.1 ms

CFC 1000
LOW RISK DEPLOYMENT
2006 Dodge RAM (C60304)  6YO P2

Test Date: 04/10/07

PASS. nij (NTF) () vs TIME SPECIAL CHS (ms)
Max: 0.0
Tmax: 3.5 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Pass. nij (NTE) () vs TIME SPECIAL CHS (ms)
Max: 0.1
Tmax: 20.2 ms
Min: 0.0
Tmin: 0.2 ms
CFC 600

Pass. nij (NCF) () vs TIME SPECIAL CHS (ms)
Max: 0.2
Tmax: 14.6 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Pass. nij (NCE) () vs TIME SPECIAL CHS (ms)
Max: 0.1
Tmax: 44.8 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600
APPENDIX C

CRASH TEST PHOTOGRAPHS
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<td>GAWR Front (1679 kg)</td>
<td>RIMS AT 17X8.0</td>
<td>240 KPA (35 PSI)</td>
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<tr>
<td>GAWR Rear (1770 kg)</td>
<td>RIMS AT 17X8.0</td>
<td>240 KPA (35 PSI)</td>
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This vehicle conforms to all applicable federal motor vehicle safety and theft prevention standards in effect on the date of manufacture shown above.

VIN: 1D7HA16K56J146806
Type: TRUCK

Vehicle made in U.S.A.
## Tire and Loading Information

<table>
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<th>Seating Capacity</th>
<th>Total</th>
<th>Front</th>
<th>Rear</th>
<th>Spare</th>
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<tr>
<td></td>
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**The Combined Weight of Occupants and Cargo Should Never Exceed**

- **656 kg or 1448 lb**

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<th>Tire Size</th>
<th>Front</th>
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See Owners Manual for Additional Information

Tire Placard
Pre-Test Front View of Test Vehicle
Post-Test Front View of Test Vehicle
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Rollover 180 Degrees
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Pre-Test 5th Fem. P1 Driver Dummy Left Side Head Position
Post-Test 5th Fem. P1 Driver Dummy Left Side Head Position
Pre-Test 5th Fem. P1 Driver Dummy Right Side Head Position
Pre-Test 5th Fem. P2 Driver Dummy Left Side View
Post-Test 5th Fem. P2 Driver Dummy Left Side View
Post-Test 5th Fem. P2 Driver Dummy Right Side View
Post-Test 5th Fem. P2 Driver Dummy Head Contact View (Header)
Post-Test 5th Fem. P2 Driver Dummy Head Contact View (Head Rest)
Pre-Test 12 Mo Pass. Dummy Right Side View (Century Encore Trial 1)
Pre-Test 12 Mo Pass. Dummy Right Side View (Century Encore Trial 2)
Post-Test 12 Mo Pass. Dummy Right Side View (Century Encore Trial 2)
Pre-Test 12 Mo Pass. Dummy Right Side View (Century Encore Trial 3)
Post-Test 12 Mo Pass. Dummy Right Side View (Century Encore Trial 3)
Post-Test 12 Mo Pass. Dummy Left Side View (Century Encore Trial 3)
Post-Test 12 Mo Pass. Dummy Right Side View (Century Encore Trial 4)
Post-Test 12 Mo Pass. Dummy Left Side View  (Century Encore Trial 4)
Pre-Test 12 Mo Pass. Dummy Right Side View (Century Encore Trial 5)
Post-Test 12 Mo Pass. Dummy Right Side View (Century Encore Trial 5)
Pre-Test 12 Mo Pass. Dummy Left Side View (Century Encore Trial 5)
Pre-Test 12 Mo Pass. Dummy Left Side View (Century Encore Trial 6)
Post-Test 12 Mo Pass. Dummy Right Side View (Evenflo Medallion)
Post-Test 12 Mo Pass. Dummy Left Side View (Evenflo Medallion)
Pre-Test 12 Mo Pass. Dummy Right Side View (Britax Roundabout)
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Pre-Test 12 Mo Pass. Dummy Right Side View (Britax Handle w/Care)
Post-Test 12 Mo Pass. Dummy Right Side View (Britax Handle w/Care)
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Pre-Test 12 Mo Pass. Dummy Right Side View (Graco Infant)
Post-Test 12 Mo Pass. Dummy Right Side View (Graco Infant)
Pre-Test 12 Mo Pass. Dummy Left Side View (Graco Infant)
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Post-Test 12 Mo Pass. Dummy Right Side View (Evenflo 1st Choice)
Post-Test 12 Mo Pass. Dummy Left Side View (Evenflo 1st Choice)
Pre-Test 3 Year Old Pass. P1 Dummy Left Side View
Pre-Test 6 Year Old Pass. P1 Dummy Right Side View
Post-Test 6 Year Old Pass. P1 Dummy Right Side View
Post-Test 6 Year Old Pass. P1 Dummy Left Side View
Pre-Test 6 Year Old Pass. P2 Dummy Right Side View
Pre-Test 6 Year Old Pass. P2 Dummy Left Side View
The line connecting the two volumetric centers intersects the I/P in front of the I/P's most rearward surface. Thus, Pt. C is defined as the rearmost edge of the I/P, along the I/P's top surface, at the cross-car centerline of the module.
Passenger Side Set Up Point

Passenger Geometric Center (2006 Dodge Ram)
APPENDIX E

INSTRUMENTATION CALIBRATION
### INSTRUMENTS FOR DRIVER DUMMY NO. 403

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### INSTRUMENTS FOR PASSENGER DUMMY NO. 401

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## INSTRUMENTS FOR LOW RISK 12 MONTH OLD DUMMY NO. 083
### TRIALS 2, 3 & 4 (CENTURY ENCORE)

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## INSTRUMENTS FOR LOW RISK 12 MONTH OLD DUMMY NO. 084
### TRIALS 5 & 6, (CENTURY ENCORE), EVENFLO MEDALLION, BRITAX ROUNDBOUGHT, BRITAX

### HANDLE W/CARE, GRACO INFANT & EVENFLO FIRST CHOICE

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<td>Head Z</td>
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<td>Chest X</td>
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<tr>
<td>Chest Displacement</td>
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<td>Servo</td>
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### VEHICLE INSTRUMENTS

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<tr>
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<tr>
<td>Right Rear Seat Crossmember X</td>
<td>C04-L06</td>
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<td>H10-L03</td>
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<td>Bottom of Engine X</td>
<td>L02-Z31</td>
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APPENDIX F

NOTICE OF TEST FAILURE
LABORATORY NOTICE OF APPARENT TEST FAILURE TO OVSC

FMVSS NO. 208 TEST DATE: March 28, 2006

LABORATORY: MGA Research Corporation

CONTRACT NO.: DTNH22-03-D-11002 DELV. ORDER NO.: #11

LABORATORY PROJECT ENGINEER’S NAME: Jeff Lewandowski

TEST SPECIMEN DESCRIPTION: 2006 Dodge RAM Truck

VEHICLE NHTSA NO.: C60304 VIN: 1D7HA16K56J146806

MFR: DaimlerChrysler Corporation

APPARENT TEST FAILURE DESCRIPTION: TP208-13, Data Sheet 8, Step 19 The right front belt would not lock at the minimum length.

FMVSS REQUIREMENT, PARAGRAPH S7.1.1.5(c)(7): The difference between the measurements recorded under S7.1.1.5(c)(6) and (4) shall not exceed 2 inches.

NOTIFICATION TO NHTSA (COTR): Charles Case

DATE: 3-28-2006 BY: Jeff Lewandowski

REMARKS: See the attached photograph of the certification label.
LABORATORY NOTICE OF APPARENT TEST FAILURE TO OVSC

FMVSS NO. 208 TEST DATE: March 28, 2006

LABORATORY: MGA Research Corporation

CONTRACT NO.: DTNH22-03-D-11002 DELV. ORDER NO.: #11

LABORATORY PROJECT ENGINEER'S NAME: Jeff Lewandowski

TEST SPECIMEN DESCRIPTION: 2006 Dodge RAM Truck

VEHICLE NHTSA NO.: C60304 VIN: 1D7HA16K56J146806

MFR: DaimlerChrysler Corporation

APPARENT TEST FAILURE DESCRIPTION: The 12-month-old CRABI Dummy had a HIC 15 value of 400 between 19.9 ms and 24.5 ms time during a Low Risk Deployment test using the Century Encore child restraint system.

FMVSS REQUIREMENT, PARAGRAPHS: S.19.4.2(a) Head Injury Criteria (HIC) The HIC 15 value shall not exceed 390 at any time during the low risk deployment event.

NOTIFICATION TO NHTSA (COTR): Charles Case

DATE: 3-28-2006 BY: Jeff Lewandowski

REMARKS: See the attached photograph of the certification label.

Vehicle certification label