REPORT NUMBER: 208-MGA-2007-011

VEHICLE SAFETY COMPLIANCE TESTING
FOR
FMVSS 208, OCCUPANT CRASH PROTECTION
FMVSS 208, 40 PERCENT OFFSET CRASH TEST
FMVSS 212, WINDSHIELD MOUNTING
FMVSS 219, WINDSHIELD INTRUSION (PARTIAL)
FMVSS 301, FUEL SYSTEM INTEGRITY

DAIMLERCHRYSLER CORPORATION
2007 DODGE RAM TRUCK
NHTSA NO.: C70306

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

TEST DATES: JULY 9, 2007 – AUGUST 6, 2007
FINAL REPORT DATE: OCTOBER 19, 2007

FINAL REPORT

PREPARED FOR:
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
OFFICE OF ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
1200 NEW JERSEY AVENUE, S.E., NVS-220
WASHINGTON, D.C. 20590
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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Prepared by: Jeff Lewandowski, Project Engineer
Date: October 19, 2007

Reviewed by: David Winkelbauer, Facility Director
Date: October 19, 2007

FINAL REPORT ACCEPTED BY OVSC:

Accepted By: Charles R. Esch

Acceptance Date: October 19, 2007
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<td>Compliance tests were conducted on the subject 2007 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. A 40 percent offset crash test was performed. Test failures identified were as follows:</td>
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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 2007 Dodge Ram, NHTSA No. C70306, 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: 2007 Dodge Ram  NHTSA No.: C70306
Test Program: FMVSS 208 Compliance  Test Dates: 7/9/07 - 8/6/07

The following checked items indicate the tests that were performed:

- X 1. Rear outboard seating position seat belts (S4.1.1.2(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)
- 11. Suppression tests with 12-month-old CRABI dummy (Part 572, Subpart R)
- 12. Suppression tests with newborn infant (Part 572, Subpart K)
- 13. Suppression tests with 3-year-old dummy (Part 572, Subpart P)
- 14. Suppression tests with 6-year-old dummy (Part 572, Subpart N)
- X 15. Test of reactivation of the passenger air bag system with an unbelted 5th percentile female dummy
- X 16. Low risk deployment test with 12-month-old dummy (Part 572, Subpart R)
- 17. Low risk deployment test with 3-year-old dummy (Part 572, Subpart P)
- 18. Low risk deployment test with 6-year-old dummy (Part 572, Subpart N)
- X 19. Low risk deployment test with 5th female dummy (Part 572, Subpart O)
- X 20. Impact Tests
  - Frontal Oblique
  - Belted 50th male dummy driver and passenger (0 to 48 kmph) (S5.1.1(a))
  - Unbelted 50th male dummy driver and passenger (0 to 48 kmph) (S5.1.2(a)(1))
  - Unbelted 50th male dummy driver and passenger (32 to 40 kmph) (S5.1.2(a)(2) or S5.1.2(b))
  - Frontal 0°
  - Belted 50th male dummy driver (0 to 48 kmph) (S5.1.1.1(b)(1) or S5.1.1(a))
  - Belted 50th male dummy passenger (0 to 48 kmph) (S5.1.1.1(b)(1) or S5.1.1(a))
  - Belted 5th female dummy driver (0 to 48 kmph) (S16.1(a))
  - Belted 5th female dummy passenger (0 to 48 kmph) (S16.1(a))
  - Belted 50th male dummy driver and passenger (0 to 56 kmph) (S5.1.1.(b)(2))
  - Unbelted 50th male dummy driver and passenger (0 to 48 kmph) (S5.1.2(a)(1))
  - Unbelted 50th male dummy driver (32 to 40 kmph) (S5.1.2(a)(2) or S5.1.2(b))
21. Sled Test: unbelted 50th male dummy driver and passenger (S13)
22. FMVSS 204 Indicant Test
X 23. FMVSS 212 Indicant Test
X 24. FMVSS 219 Indicant Test
X 25. FMVSS 301 Frontal Indicant Test

For the crash tests, the vehicle was instrumented with 8 accelerometers. The accelerometer data from the vehicle and dummies were sampled at 10,000 samples per second and processed as specified in SAE J211/1 MAR95 and FMVSS 208, S4.13.

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

The vehicle appears to meet the performance requirements to which it was tested.
SECTION 3
INJURY RESULT SUMMARY FOR FMVSS 208 TESTS

Test Vehicle: 2007 Dodge Ram  
Test Program: FMVSS 208 Compliance  
NHTSA No.: C70306  
Test Dates: 7/24/07

5th Percentile Female Low Risk Deployment

5th Percentile Female SN 510 Position 2 (Chin On Rim) 7-24-07

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<th>Max. Allowable Injury Assessment Values</th>
<th>Measured Value</th>
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<td>60 g</td>
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<tr>
<td>Chest Displacement</td>
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<td>Left Femur</td>
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<td>Right Femur</td>
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Second stage fire time of 60 ms; Injuries calculated on 0 ms to 185 ms
### 12-Month-Old Low Risk Deployments

**12-Month-Old SN 082 / Century Encore / 7-24-07**

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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 SN 082 / Evenflo Medallion / 7-24-07**

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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: 2007 Dodge Ram  
Test Program: FMVSS 208 Compliance  
NHTSA No.: C70306  
Test Dates: 7/9/07 - 8/6/07

40 kmph Frontal Crash (40% Offset Belted)

Impact Angle: Zero degrees

Belted Dummies: ___Yes   _X_ No

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

Test Speed: 39.8 kmph  
Test Weight: 2385.9 kg

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

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

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<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>232</td>
<td>42</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>20</td>
<td>14</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>10</td>
<td>9</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>801</td>
<td>1351</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>1545</td>
<td>804</td>
</tr>
</tbody>
</table>
SECTION 4
DISCUSSION OF TESTS

Test Vehicle: 2007 Dodge Ram  NHTSA No.: C70306
Test Program: FMVSS 208 Compliance  Test Dates: 7/9/07 - 8/6/07

The 3-year-old position 1 and position 2 low risk deployments were not run at the request of the COTR.

The 6-year-old position 1 and position 2 low risk deployments were not run at the request of the COTR.

The 5th percentile position 1 low risk deployment was not run at the request of the COTR.
SECTION 5
TEST DATA SHEETS

Test Vehicle: 2007 Dodge Ram  
NHTSA No.: C70306  
Test Program: FMVSS 208 Compliance  
Test Dates: 7/9/07 - 8/6/07
DATA SHEET 1
COTR VEHICLE WORK ORDER

Test Vehicle: 2007 Dodge Ram  
NHTSA No.: C70306
Test Program: FMVSS 208 Compliance  
Test Dates: 7/9/07 - 8/6/07
COTR Signature: Charles R. Case

Test to be performed for this vehicle are checked below:

1. Rear Outboard Seating Position Seat Belts (S4.1.2(b)) & (S4.2.4)
2. Air Bag Labels (S4.5.1)
3. Readiness Indicator (S4.5.2)
4. Passenger Air Bag Manual Cut-off Device (S4.5.4)
5. Lap Belt Lockability (S7.1.1.5)
6. Seat Belt Warning System (S7.3)
7. Seat Belt Contact Force (S7.4.4)
8. Seat Belt Latch Plate Access (S7.4.5)
9. Seat Belt Retraction (S7.4.5)
10. Seat Belt Guides and Hardware (S7.4.6)
11. Suppression tests with 12-month-old CRABI dummy (Part 572, Subpart R) using the following indicated child restraints.

Section B

<table>
<thead>
<tr>
<th>Child Restraint</th>
<th>Full Rearward</th>
<th>Mid Position</th>
<th>Full Forward</th>
</tr>
</thead>
<tbody>
<tr>
<td>Britax Handle with Care 191</td>
<td>Full Rearward</td>
<td>Mid Position</td>
<td>Full Forward</td>
</tr>
<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 V 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</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>Child Restraint</th>
<th>Full Rearward</th>
<th>Mid Position</th>
<th>Full Forward</th>
</tr>
</thead>
<tbody>
<tr>
<td>Britax Roundabout 161</td>
<td>Full Rearward</td>
<td>Mid Position</td>
<td>Full Forward</td>
</tr>
<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 Medalion 254</td>
<td>Full Rearward</td>
<td>Mid Position</td>
<td>Full Forward</td>
</tr>
</tbody>
</table>

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

Section A

<table>
<thead>
<tr>
<th>Child Restraint</th>
<th>Full Rearward</th>
<th>Mid Position</th>
<th>Full Forward</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cosco Dream Ride 02-719</td>
<td>Full Rearward</td>
<td>Mid Position</td>
<td>Full Forward</td>
</tr>
</tbody>
</table>

13. Suppression tests with 3-year-old dummy (Part 572, Subpart P) using the following indicated child restraints where a child restraint is required.
Section C

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

Section D

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

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

Section C

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

Section D

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

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

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 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 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 |
|-----------|-----------|-----------|-----------|
| Britax Roadster 9004 | Full Rearward | Mid Position | Full Forward |
| Century Next Step 4920 | Full Rearward | Mid Position | Full Forward |
| Cosco High Back Booster 02-442 | Full Rearward | Mid Position | Full Forward |
| Evenflo Right Fit 245 | Full Rearward | Mid Position | Full Forward |

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 |
|-----------|-----------|-----------|-----------|
| Britax Handle with Care 191 | Full Rearward | Mid Position | Full Forward |
| Century Assura 4553 | Full Rearward | Mid Position | Full Forward |
| Century Avanta SE 41530 | Full Rearward | Mid Position | Full Forward |
| Century Smart Fit 4543 | Full Rearward | Mid Position | Full Forward |
| Cosco Arriva 02727 | Full Rearward | Mid Position | Full Forward |
| Cosco Opus 35 02603 | Full Rearward | Mid Position | Full Forward |
| Evenflo Discovery Adjust Right 212 | Full Rearward | Mid Position | Full Forward |
| Evenflo First Choice 204 | Full Rearward | Mid Position | Full Forward |
| Evenflo On My Way Position Right V 282 | Full Rearward | Mid Position | Full Forward |
| Graco Infant 8457 | Full Rearward | Mid Position | Full Forward |

| Section C |
|-----------|-----------|-----------|-----------|
| Britax Roundabout 161 | Full Rearward | Mid Position | Full Forward |
| Century Encore 4612 | Full Rearward | Mid Position | Full Forward |
| Century STE 1000 4416 | Full Rearward | Mid Position | Full Forward |
| Cosco Olympian 02803 | Full Rearward | Mid Position | Full Forward |
| Cosco Touriva 02519 | Full Rearward | Mid Position | Full Forward |
| Evenflo Horizon V 425 | Full Rearward | Mid Position | Full Forward |
| Evenflo Medallion 254 | Full Rearward | Mid Position | Full Forward |
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: 39.8 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 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 female 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: 2007 Dodge Ram 1500
Test Program: FMVSS 208 Compliance
NHTSA No.: C70306
Test Dates: 7/9/07 - 8/6/07

CONTRACT NO.: DTNH22-03-D-11002
Date: 8/13/07
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: 2007 Dodge Ram 1500
MANUFACTURE DATE: 3/07

NHTSA NO.: C70306
GVWR: 2994 kg (6600 lbs)
BODY COLOR: Red
GAWR (Fr): 1679 kg (3700 lbs)
VIN: 1D7HA16K67J583702
GAWR (Rr): 1770 kg (3900 lbs)

ODOMETER READINGS: ARRIVAL (miles): 138 DATE: 7/9/07
COMPLETION (miles): 143 DATE: 8/6/07

PURCHASE PRICE: ($) 15,411
DEALER’S NAME: Dodge City; 4640 S. 27th St.; Milwaukee, WI 53221

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
REPORT OF VEHICLE CONDITION AT THE COMPLETION OF TESTING

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

VEHICLE: 2007 Dodge Ram  
NHTSA NO. C70306

REMARKS:

Equipment that is no longer on the test vehicle as noted on previous page:
Rear compartment equipment tray

Explanation for equipment removal:
Removed to achieve test weight and data system access

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: 8/13/2007
APPROVED BY: David Winkelbauer  
DATE: 8/13/2007

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

Test Vehicle: 2007 Dodge Ram  
Test Program: FMVSS 208 Compliance  
Test Technician: Jamie Aide  
NHTSA No.: C70306  
Test Date: 8/6/07

### Certification Label

<table>
<thead>
<tr>
<th>Manufacturer:</th>
<th>DaimlerChrysler Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date of Manufacture:</td>
<td>3/07</td>
</tr>
<tr>
<td>VIN:</td>
<td>1D7HA16K67J583702</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>2994 kg (6600 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>825 kg (1819 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: 8/6/07
DATA SHEET 4
REAR OUTBOARD SEATING POSITION SEAT BELTS

| Test Vehicle:          | 2007 Dodge Ram          | NHTSA No.:       | C70306 |
| Test Program:         | FMVSS 208 Compliance    | Test Date:       | 7/9/07 |
| Test Technician:      | Wayne Dahlke            |                 |       |

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

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

REMARKS: There are no rear seating positions.

Signature: [Signature]
Date: 7/9/07
# DATA SHEET 5
## AIR BAG LABELS (S4.5.1)

<table>
<thead>
<tr>
<th>Test Vehicle:</th>
<th>2007 Dodge Ram</th>
<th>NHTSA No.:</th>
<th>C70306</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
<td>Test Date:</td>
<td>7/9/07</td>
</tr>
<tr>
<td>Test Technician:</td>
<td>Wayne Dahlke</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

2.7.7 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))

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

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

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

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

<table>
<thead>
<tr>
<th>Driver Side, Yes - Pass</th>
<th>Driver Side, No - Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passenger Side, Yes - Pass</td>
<td>Passenger Side, No - Fail</td>
</tr>
</tbody>
</table>
3.1.5 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

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

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

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

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

Actual diameter ___________ mm

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

3.2 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)

<table>
<thead>
<tr>
<th>Driver Side, Yes - Pass</th>
<th>Driver Side, No - Fail</th>
<th>Passenger Side, Yes - Pass</th>
<th>Passenger Side, No - Fail</th>
</tr>
</thead>
</table>
3.2.2 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. Seat Belt Label Visible when Seat is in Down Position.]

- 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
- 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
- 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))

___ actual distance
Yes-Pass  No-FAIL

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

4.1 Is the sun visor warning label visible when the sun visor is in the stowed position?

- X If yes for driver and passenger, go to 5.
- X Driver Side, Yes
- Driver Side, No
- Pass X Passenger Side, Yes
- Passenger Side, No

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)

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

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

- Driver Side, Yes - Pass
- Driver Side, No - Fail
- Passenger Side, Yes - Pass
- Passenger Side, No - Fail
4.4 Does the label conform in content to the label shown in Figure 6C? (S4.5.1(c))

![Image of Airbag Warning Label]

- 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

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

X Yes, go to 5.1.1 and skip 5.2

X No, go to 5.2, skipping 5.1.1 through 5.6

X 5.1.1 Does the vehicle have a label on the dash or steering wheel hub? (S4.5.1(e)(3))

X Yes - Pass

X No - Fail

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

X Yes - Pass

X No - Fail

X 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))

X Yes - Pass

X No - Fail

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

X Yes - Pass

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

X 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)

Length 9.4 cm Width 3.4 cm

Actual message area 32.0 cm²

X 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: 7/9/07
An occupant restraint system that deploys in the event of a crash shall have a monitoring system with a readiness indicator. A totally mechanical system is exempt from this requirement. (11/8/94 legal interpretation to Lawrence F. Hennegerger on behalf of Breed)

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

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

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

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

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

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

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 7/9/07
DATA SHEET 7

PASSENGER AIR BAG MANUAL CUT-OFF DEVICE (S4.5.4)

Test Vehicle: 2007 Dodge Ram
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

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.

3.7 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 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))

- Infants: there is no back seat
  - the rear seat is too small to accommodate a child restraint
  - there is a medical condition that must be monitored constantly
- Children: there is no back seat
  - space is not always available in the rear seat
  - there is a medical condition that must be monitored constantly
- 1 to 12: there is a medical condition that must be monitored constantly
  - medical risk causes special risk for passenger
  - greater risk for harm than with the air bag on

- 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: __________________________

Date: 7/9/07
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: 2007 Dodge Ram  NHTSA No.: C70306
Test Program: FMVSS 208 Compliance  Test Date: 7/9/07
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
- X 1. Record test fore-aft seat position: FULL REAR (S7.1.1.5(c)(1)) (Any position is acceptable)
- X 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
- X 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
- X 4. Place any adjustable seat belt anchorage in the lowest adjustment position.
  - N/A The anchorage is not adjustable.
- X 5. Buckle the seat belt. (S7.1.1.5(c)(1))
- X 6. Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2))
- X 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))
- X 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?
  - X Yes, go to 8.1
  - No, go to 9.
  - X 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): 76 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): 10°

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): 28 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)): 15lbs/sec

   Measured distance between A and B (inches) (S7.1.1.5(c)(6)): 28 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 10° (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 18 ½ 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 15lbs./sec (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5))
   - Measured distance between A and B 19 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 = 28 ½ - 28 ½ = 0 inches
   - 18-17 = 19 - 18 ½ = ½ 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 = 76 ½ - 28 ½ = 48 inches
   - 10-18 = 76 ½ - 19 = 57 ½ inches
   - Yes - Pass
   - No - Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 7/9/07

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)

<table>
<thead>
<tr>
<th>Designated Seating Position:</th>
<th>Center Front Passenger</th>
</tr>
</thead>
</table>

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

- **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:**
   (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))
   - **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): 68 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): 10°

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): 19 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)): 15lbs/sec

   Measured distance between A and B (inches) (S7.1.1.5(c)(6)): 19 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 10° (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 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 15lbs/sec (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5))

   Measured distance between A and B 9 ¾ 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))

\[14-13 = 19 \frac{1}{2} - 19 = \frac{1}{2} \text{ inch}\]

\[18-17 = 9 \frac{3}{4} - 9 = \frac{3}{4} \text{ inch}\]

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))

\[10-14 = 68 \frac{1}{2} - 19 \frac{1}{2} = 49 \text{ inches}\]

\[10-18 = 68 \frac{1}{2} - 9 \frac{3}{4} = 58 \frac{3}{4} \text{ inches}\]

Yes - Pass
No - Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________
Date:  7/9/07

Figure 5. - Webbing Tension Pull Device
DATA SHEET 9
FMVSS 208 SEAT BELT WARNING SYSTEM CHECK (S7.3)

Test Vehicle: 2007 Dodge Ram
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

1. The occupant is in the driver’s seat.
2. The seat belt is in the stowed position.
3. The key is in the “on” or “start” position.
4. The time duration of the audible signal beginning with key “on” or “start” is
   Seconds: 7
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>S7.3 (a)(1) Belt stowed &amp; key on or start</td>
<td>Item 8: Stays On</td>
</tr>
<tr>
<td>S7.3 (a)(2) Belt latched &amp; key on or start</td>
<td>Item 12: 7</td>
</tr>
<tr>
<td>Belt stowed &amp; key on or start</td>
<td>Item 8: Stays On</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
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
   - 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:  7/9/07
DATA SHEET 10
BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2007 Dodge Ram  NHTSA No.: C70306
Test Program: FMVSS 208 Compliance  Test Date: 7/9/07
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?
   - 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

Test Vehicle: 2007 Dodge Ram  NHTSA No.: C70306
Test Program: FMVSS 208 Compliance  Test Date: 7/9/07
Test Technician: Wayne Dahlke
REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________
Date: 7/9/07
**DATA SHEET 10**

**BELT CONTACT FORCE (S7.4.3)**

Test Vehicle: 2007 Dodge Ram  
NHTSA No.: C70306  
Test Program: FMVSS 208 Compliance  
Test Date: 7/9/07  
Test Technician: Wayne Dahlke

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

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

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 0.4 lbs.
   - Greater than 0.7 pounds - Fail
REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 7/9/07
DATA SHEET 10
BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2007 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.

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

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

Test Vehicle: 2007 Dodge Ram  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke

NHTSA No.: C70306  
Test Date: 7/9/07
REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 7/9/07
DATA SHEET 11
LATCH PLATE ACCESS (S7.4.4)

Test Vehicle: 2007 Dodge Ram  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke

NHTSA No.: C70306  
Test Date: 7/9/07

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. 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 forwardmost 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
REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 7/9/07
DATA SHEET 11
LATCH PLATE ACCESS (S7.4.4)

Test Vehicle: 2007 Dodge Ram  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke

<table>
<thead>
<tr>
<th>TEST NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>X 1.</td>
<td>Put the seat in the forwardmost fore-aft and full down height position determined in Data Sheet 14.2. (S10.7)</td>
</tr>
<tr>
<td>X 2.</td>
<td>Put the seat back angle in the position determined in Data Sheet 14.2.</td>
</tr>
<tr>
<td>X 3.</td>
<td>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 forwardmost 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.</td>
</tr>
<tr>
<td>X 4.</td>
<td>Position the adjustable seat belt anchorage in the manufacturer’s nominal design position for a 50th percentile adult male occupant.</td>
</tr>
<tr>
<td>X 5.</td>
<td>Attach the inboard reach string to the base of the head following the instructions on Figure 3.</td>
</tr>
<tr>
<td>X 6.</td>
<td>Attach the outboard reach string to the torso sheath following the instructions on Figure 3.</td>
</tr>
<tr>
<td>X 7.</td>
<td>Place the latch plate in the stowed position.</td>
</tr>
</tbody>
</table>
| X 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 |
| X 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 |
| X 10.       | Is the latch plate within the inboard (item 10) or outboard (item 11) reach envelope?  
- Yes - Pass  
- No - Fail |
| X 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: 2007 Dodge Ram  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke

NHTSA No.: C70306  
Test Date: 7/9/07
I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 7/9/07
DATA SHEET 12
SEAT BELT RETRACTION (S7.4.5)

Test Vehicle: 2007 Dodge Ram  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke  
NHTSA No.: C70306  
Test Date: 7/9/07

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

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: 3

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
       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
       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?
   - 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: _________________________
Date: 7/9/07
DATA SHEET 12

SEAT BELT RETRACTION (S7.4.5)

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

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

Date: 7/9/07
DATA SHEET 13
SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2007 Dodge Ram  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke

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

DESIGNATED SEATING POSITION: Left Front Driver

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

2. Is the seat removable? (S7.4.6.1(b))
   - X 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))
   - X Yes, this form is complete
   - No, go to 4

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

Test Vehicle: 2007 Dodge Ram  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke

NHTSA No.: C70306  
Test Date: 7/9/07
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: 7/9/07
DATA SHEET 13
SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2007 Dodge Ram  
NHTSA No.: C70306
Test Program: FMVSS 208 Compliance  
Test Date: 7/9/07
Test Technician: Wayne Dahlke

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

[DESIGNATED SEATING POSITION: 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: 7/9/07
Test seat belts except those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

**DESIGNATED SEATING POSITION:** Right Front Passenger

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</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: __________________________

Date: 7/9/07
DATA SHEET 14
MARKING OF REFERENCE POINTS FOR VARIOUS TEST POSITIONS AND POINTS

Test Vehicle: 2007 Dodge Ram  
NHTSA No.: C70306
Test Program: FMVSS 208 Compliance  
Test Date: 8/6/07
Test Technician: Joe Fleck

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)

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?

- 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 220 mm
Mid-point height 110 mm

I certify that I have read and performed each instruction.

Signature: ___________________________ Date: 8/6/07
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 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.
   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 forefront 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)

X 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 220 mm
   Mid-point height 110 mm

I certify that I have read and performed each instruction.

Signature: ___________________________ Date: 8/6/07
DATA SHEET 14.3
MARKING OF REFERENCE POINTS FOR STEERING WHEEL

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

X 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

X 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.

Signature: ___________________________ Date: 8/6/07
DATA SHEET 14.4
MARKING OF REFERENCE POINTS FOR DRIVER LOW RISK DEPLOYMENT

X Position 1  X Position 2

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

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

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

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

________________________  _____7/24/07_____
I certify that I have read and performed each instruction.  
Date
MARKING OF REFERENCE POINTS FOR PASSENGER LOW RISK DEPLOYMENT

__Position 1  __Position 2  X Only CRABI / CRS LRD Were Run

X 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-17

OR

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

_________________________  7/24/07
I certify that I have read and performed each instruction. Date
### 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>TEST DATE</th>
<th>LABORATORY</th>
<th>TECHNICIANS</th>
<th>DUMMY TYPE</th>
<th>DUMMY SERIAL NO.</th>
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<td>C70306</td>
<td>7-24-07</td>
<td>MGA</td>
<td>BR/WD</td>
<td>12 Month Old</td>
<td>082</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:** 20 N

### Air Bag Deployment Timing

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

### 12-Month-Old CRABI In CRS (Century Encore) 7-24-07

<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>
<td>390</td>
<td>43</td>
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<tr>
<td>Peak Nij (Nte)</td>
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<td>Time (ms)</td>
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<td>Neck Tension</td>
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<td>Chest g</td>
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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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<th>NHTSA NO.:</th>
<th>C70306</th>
<th>TEST DATE:</th>
<th>7-24-07</th>
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<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>BR/WD</td>
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<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>082</td>
</tr>
</tbody>
</table>

Child Restraint Name 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: 6 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>
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<td>1</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>2</td>
<td>10.0</td>
<td>10.0</td>
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</tbody>
</table>

12-Month-Old CRABI In CRS (Evenflo Medallion) 7-24-07

<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>47</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>90.6</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>86.7</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>58.8</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>130.7</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>780 N</td>
<td>297</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>960 N</td>
<td>48</td>
</tr>
<tr>
<td>Chest g</td>
<td>50 g</td>
<td>20</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 30 SUMMARY**

Low Risk Deployment Tests Using an Unbelted 5th Percentile Female Dummy (Part 572, Subpart O) (S26)
Position 2 - Chin On Rim (S26.3)

<table>
<thead>
<tr>
<th>NHTSA NO.:</th>
<th>C70306</th>
<th>TEST DATE:</th>
<th>7/24/07</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>5th Percentile Female</td>
<td>DUMMY SERIAL NO.:</td>
<td>510</td>
</tr>
</tbody>
</table>

Manufacturer's design seat back angle: 21.0°
Tested seat back angle: 21.3°
Tested seat position: Full Aft

Tested steering wheel angle: 24.9°
Thorax cavity angle: 30.8°
Chin Point height: 1 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>60.0</td>
<td>60.1</td>
</tr>
</tbody>
</table>

### 5th Percentile Female SN 510 Position 2 (Chin On Rim) 7-24-07

<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>15</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>14.3</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>77.4</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>175.7</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>48.2</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2070 N</td>
<td>887</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>131</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>28</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>22</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>28</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</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 60 ms; Injuries calculated on 0 ms to 185 ms
DATA SHEET 32
VEHICLE WEIGHT, FUEL TANK, AND ATTITUDE DATA

Test Vehicle: 2007 Dodge Ram
Test Program: FMVSS 208 Compliance
Test Technician: Jamie Aide
NHTSA No.: C70306
Test Date: 8/6/07

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

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: 128.7 liters (34.0 gallons)
5. Record the fuel tank capacity supplied in the owner’s manual.
   Useable Fuel Tank Capacity in owner’s manual: 128.7 liters (34.0 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: 128.7 liters (34.0 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.

<table>
<thead>
<tr>
<th>Tire placard pressure:</th>
<th>RF: 35 psi</th>
<th>LF: 35 psi</th>
<th>RR: 35 psi</th>
<th>LR: 35 psi</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner’s manual pressure:</td>
<td>RF: 35 psi</td>
<td>LF: 35 psi</td>
<td>RR: 35 psi</td>
<td>LR: 35 psi</td>
</tr>
<tr>
<td>Actual inflated pressure:</td>
<td>RF: 35 psi</td>
<td>LF: 35 psi</td>
<td>RR: 35 psi</td>
<td>LR: 35 psi</td>
</tr>
</tbody>
</table>

12. Record the vehicle weight at each wheel to determine the unloaded vehicle weight (UVW), i.e. "as delivered" weight.

<table>
<thead>
<tr>
<th>Right Front (kg):</th>
<th>595.6</th>
<th>Right Rear (kg):</th>
<th>463.6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Front (kg):</td>
<td>611.5</td>
<td>Left Rear (kg):</td>
<td>489.4</td>
</tr>
<tr>
<td>Total Front (kg):</td>
<td>1207.1</td>
<td>Total Rear (kg):</td>
<td>953.0</td>
</tr>
<tr>
<td>% Total Weight:</td>
<td>55.9</td>
<td>% Total Weight:</td>
<td>44.1</td>
</tr>
<tr>
<td>UVW = TOTAL FRONT PLUS TOTAL REAR (KG):</td>
<td>2160.1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.
X 13.3 Measure perpendicular to the level surface to the 4 points marked on the body and record the measurements

<table>
<thead>
<tr>
<th>RF:</th>
<th>LF:</th>
<th>RR:</th>
<th>LR:</th>
</tr>
</thead>
<tbody>
<tr>
<td>901</td>
<td>908</td>
<td>991</td>
<td>988</td>
</tr>
</tbody>
</table>

X 14. Calculate the Rated Cargo and Luggage Weight (RCLW): 136 kg used for test

X 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

X 14.2 VCW = Gross Vehicle Weight – UVW

VCW = __________ - __________ = __________

X 14.3 VCW = 825 kg (1819 lbs)

X 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

X 14.5 DSC = Total number of seat belt assemblies = __________

X 14.6 DSC = 3

X 14.7 RCLW = VCW – (68 kg x DSC) = 825 kg - (68 kg x 3 ) = 621 kg

X 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

X 15. Fully Loaded Weight (100% fuel fill): 2394.1 kg

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

Driver: X 5<sup>th</sup> female __ 50<sup>th</sup> male

Passenger: X 5<sup>th</sup> female __ 50<sup>th</sup> male

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

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

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

<table>
<thead>
<tr>
<th>Right Front (kg):</th>
<th>617.8</th>
<th>Right Rear (kg):</th>
<th>561.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Front (kg):</td>
<td>635.5</td>
<td>Left Rear (kg):</td>
<td>579.7</td>
</tr>
<tr>
<td>Total Front (kg):</td>
<td>1253.3</td>
<td>Total Rear (kg):</td>
<td>1140.8</td>
</tr>
<tr>
<td>% Total Weight:</td>
<td>52.3</td>
<td>% Total Weight:</td>
<td>47.7</td>
</tr>
<tr>
<td>% GVW</td>
<td>56.1</td>
<td>% GVW</td>
<td>59.1</td>
</tr>
</tbody>
</table>

{(% GVW = Axle GVW divided by Vehicle GVW)

Fully Loaded Weight = Total Front Plus Total Rear (kg): 2394.1

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

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

<table>
<thead>
<tr>
<th>RF</th>
<th>LF</th>
<th>RR</th>
<th>LR</th>
</tr>
</thead>
<tbody>
<tr>
<td>892</td>
<td>900</td>
<td>960</td>
<td>958</td>
</tr>
</tbody>
</table>

17. Drain the fuel system.

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

Fuel tank capacity \( \times 0.94 = 128.7 \text{ liters (34.0 gallons)} \)

Amount added \( 120.4 \text{ liters (31.8 gallons)} \) 93.6%

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)

\[2394.1 \text{ kg} = 2160.1 \text{ kg} + 136.0 \text{ kg} + 98.0 \text{ kg}\]

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

Max. Test Weight = Calculated Test Weight – 4.5 kg = 2389.6 kg

Min. Test Weight = Calculated Test Weight – 9 kg = 2385.1 kg

21. Remove the RCLW from the cargo area.

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

23. Vehicle Components Removed For Weight Reduction:

- Rear compartment equipment tray

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: 81.6 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.

<table>
<thead>
<tr>
<th>Right Front (kg):</th>
<th>650.9</th>
<th>Right Rear (kg):</th>
<th>541.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Front (kg):</td>
<td>640.5</td>
<td>Left Rear (kg):</td>
<td>553.4</td>
</tr>
<tr>
<td>Total Front (kg):</td>
<td>1291.4</td>
<td>Total Rear (kg):</td>
<td>1094.5</td>
</tr>
<tr>
<td>% Total Weight:</td>
<td>54.1</td>
<td>% Total Weight:</td>
<td>45.9</td>
</tr>
<tr>
<td>% GVW</td>
<td>56.1</td>
<td>% GVW</td>
<td>59.1</td>
</tr>
</tbody>
</table>

(total % GVW = Axle GVW divided by Vehicle GVW)

TOTAL FRONT PLUS TOTAL REAR (kg): 2385.9
28. Is the test weight between the Max. Weight and the Min. Weight (See 20.2)?
   Yes
   No, explain why not.

29. Test Weight Vehicle Attitude: (all dimensions in millimeters)
   29.1 Place the vehicle on a level surface
   29.2 Measure perpendicular to the level surface to the 4 points marked on the body (see 13 above) and record the measurements
   RF: 892  LF: 901  RR: 963  LR: 968

30. Summary of test attitude
   30.1 AS DELIVERED:
       RF: 901  LF: 908  RR: 991  LR: 988

   AS TESTED:
       RF: 892  LF: 901  RR: 963  LR: 968

   FULLY LOADED:
       RF: 892  LF: 900  RR: 960  LR: 958

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

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

Signature: [Signature]

Date: 8/6/07
DATA SHEET 33
VEHICLE ACCELEROMETER LOCATION AND MEASUREMENT

Test Vehicle: 2007 Dodge Ram
Test Program: FMVSS 208 Compliance
Test Technician: Jamie Aide
NHTSA No.: C70306
Test Date: 8/6/07

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

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: 8/6/07
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.
## VEHICLE ACCELEROMETER LOCATION AND MEASUREMENTS

<table>
<thead>
<tr>
<th>DIMENSION</th>
<th>PRETEST VALUES</th>
<th>POST TEST VALUES</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (LH Rear Seat Xmbr)</td>
<td>443</td>
<td>444</td>
</tr>
<tr>
<td>B (RH Rear Seat Xmbr)</td>
<td>446</td>
<td>445</td>
</tr>
<tr>
<td>C (Engine Top)</td>
<td>4765</td>
<td>4742</td>
</tr>
<tr>
<td>D (Engine Bottom)</td>
<td>4574</td>
<td>4594</td>
</tr>
<tr>
<td>E (Caliper)</td>
<td>Right Side: 4628</td>
<td>Right Side: 4621</td>
</tr>
<tr>
<td>F (Left Caliper)</td>
<td>732</td>
<td>771</td>
</tr>
<tr>
<td>G (IP)</td>
<td>3974</td>
<td>4035</td>
</tr>
<tr>
<td>H (Seat)</td>
<td>2973</td>
<td>2970</td>
</tr>
<tr>
<td>J (Right Caliper)</td>
<td>732</td>
<td>760</td>
</tr>
<tr>
<td>K (Trunk)</td>
<td>1787</td>
<td>1825</td>
</tr>
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</table>
### DATA SHEET 34
#### PHOTOGRAPHIC TARGETS

<table>
<thead>
<tr>
<th>Test Vehicle:</th>
<th>2007 Dodge Ram</th>
<th>NHTSA No.:</th>
<th>C70306</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
<td>Test Date:</td>
<td>8/6/07</td>
</tr>
<tr>
<td>Test Technician:</td>
<td>Jamie Aide</td>
<td>NHTSA No.:</td>
<td>C70306</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IMPACT ANGLE:</th>
<th>Zero Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>BELTED DUMMIES (YES/NO):</td>
<td>Yes</td>
</tr>
<tr>
<td>TEST SPEED:</td>
<td>X 32 to 40 kmph</td>
</tr>
<tr>
<td></td>
<td>__ 0 to 48 kmph</td>
</tr>
<tr>
<td></td>
<td>__ 0 to 56 kmph</td>
</tr>
<tr>
<td>DRIVER DUMMY:</td>
<td>X 5th female</td>
</tr>
<tr>
<td></td>
<td>__ 50th male</td>
</tr>
<tr>
<td>PASSENGER DUMMY:</td>
<td>X 5th female</td>
</tr>
<tr>
<td></td>
<td>__ 50th male</td>
</tr>
</tbody>
</table>

1. FMVSS 208 vehicle targeting requirements (See Figures 28A and 28B)
2. Targets A1 and A2 are on flat rectangular panels.
3. 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
4. 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
5. 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): 791 mm This dimension was used due to the length of the truck cab.
6. Firmly fix target A1 on the vehicle roof in the vertical longitudinal plane that is coincident with the midsagittal plane of the driver dummy.
7. Firmly fix target A2 on the vehicle roof in the vertical longitudinal plane that is coincident with the midsagittal plane of the passenger dummy.
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 driver door. The centers of each circular target are at least 610 mm apart.
   - Distance between targets (mm): 611 mm
9. 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): 613 mm
10. Place tape with squares having alternating colors on the top portion of the steering wheel.
11. Chalk the bottom portion of the steering wheel
12. 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): 2022 mm (79.6 inches)

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: [Signature] Date: 8/6/07
REFERENCE PHOTO TARGETS

CONCRETE BARRIER

COVERED PHOTO PIT

LEFT SIDE VIEW

MONORAIL

915 mm

100 mm

100 mm

610 mm
RESECTION PANEL TARGETING ALIGNMENT

CAR TOP TARGETS A1 & A2

RESECTION CONTROL POINTS PANEL

STEERING COLUMN TARGET B

REAR VIEW

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

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

LEFT SIDE VIEW

914 mm

914 mm
OFFSET DEFORMABLE BARRIER
ADDITIONAL VEHICLE TARGETING

Figure 28D
### DATA SHEET 35

**CAMERA LOCATIONS**

<table>
<thead>
<tr>
<th>CAMERA NO.</th>
<th>VIEW</th>
<th>CAMERA POSITIONS (mm) *</th>
<th>LENS (mm)</th>
<th>SPEED (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Real Time Left Side View</td>
<td>X: 13 Y: 24 Z:</td>
<td>13</td>
<td>24</td>
</tr>
<tr>
<td>2</td>
<td>Left Side View (Barrier face to front seat backs)</td>
<td>X: 1100 Y: -6140 Z: 1150</td>
<td>24</td>
<td>1000</td>
</tr>
<tr>
<td>3</td>
<td>Left Side View (Driver)</td>
<td>X: 1500 Y: -8230 Z: 1650</td>
<td>35</td>
<td>1000</td>
</tr>
<tr>
<td>4</td>
<td>Left Side View (B-post aimed toward center of steering wheel)</td>
<td>X: 4400 Y: -5700 Z: 2200</td>
<td>50</td>
<td>1000</td>
</tr>
<tr>
<td>5</td>
<td>Left Side View (Steering Column)</td>
<td>X: 1400 Y: -6600 Z: 1300</td>
<td>25</td>
<td>1000</td>
</tr>
<tr>
<td>6</td>
<td>Left Side View (Steering Column)</td>
<td>X: 1410 Y: -6610 Z: 900</td>
<td>25</td>
<td>1000</td>
</tr>
<tr>
<td>7</td>
<td>Right Side View (Overall)</td>
<td>X: 1700 Y: 6160 Z: 1340</td>
<td>24</td>
<td>1000</td>
</tr>
<tr>
<td>8</td>
<td>Right Side View (Passenger)</td>
<td>X: 1050 Y: 6300 Z: 1600</td>
<td>35</td>
<td>1000</td>
</tr>
<tr>
<td>9</td>
<td>Right Side View (Angle)</td>
<td>X: 2800 Y: 5580 Z: 2200</td>
<td>50</td>
<td>1000</td>
</tr>
<tr>
<td>10</td>
<td>Right Side View (Front door)</td>
<td>X: 604 Y: 7070 Z: 1300</td>
<td>24</td>
<td>1000</td>
</tr>
<tr>
<td>11</td>
<td>Front View Windshield</td>
<td>X: -285 Y: 0 Z: 2830</td>
<td>12.5</td>
<td>1000</td>
</tr>
<tr>
<td>12</td>
<td>Front View Driver</td>
<td>X: -135 Y: -395 Z: 2240</td>
<td>24</td>
<td>1000</td>
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<tr>
<td>13</td>
<td>Front View Passenger</td>
<td>X: -110 Y: 505 Z: 2240</td>
<td>24</td>
<td>1000</td>
</tr>
<tr>
<td>14</td>
<td>Overhead Barrier Impact View</td>
<td>X: 940 Y: 0 Z: 5050</td>
<td>19</td>
<td>1000</td>
</tr>
<tr>
<td>15</td>
<td>Pit Camera Engine View</td>
<td>X: 500 Y: 0 Z: -3150</td>
<td>24</td>
<td>1000</td>
</tr>
<tr>
<td>16</td>
<td>Pit Camera Fuel Tank View</td>
<td>X: 2400 Y: 0 Z: -3150</td>
<td>24</td>
<td>1000</td>
</tr>
<tr>
<td>17</td>
<td>Overhead Barrier Close Up</td>
<td>X: 750 Y: 0 Z: 5050</td>
<td>16</td>
<td>1000</td>
</tr>
</tbody>
</table>

*COORDINATES:
+X - forward of impact plane
+Y - right of monorail centerline
+Z - above ground level

---

Test Vehicle: 2007 Dodge Ram
Test Program: FMVSS 208 Compliance
NHTSA No.: C70306
Test Date: 8/6/07
Time: 11:00 am
DATA SHEET 36
APPENDIX G
DUMMY POSITIONING PROCEDURES
FOR 5th% DRIVER TEST DUMMY CONFORMING TO SUBPART O OF PART 572

Test Vehicle: 2007 Dodge Ram  
Test Program: FMVSS 208 Compliance  
Test Technician: Tim Bratz  
NHTSA No.: C70306  
Test Date: 8/6/07

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

X 1. Using the markings made from data sheet 14.3 (If not done previously or steering repairs have been made, complete data sheet 14.3 at this time.) to position the steering controls in the mid-position or if applicable next lowest detent position. (S16.2.9)

X 2. Place the SCRP in the full rearward, mid-height position, and mid-seat cushion angle, determined during the completion of Data Sheet 14.1. (S16.3.2.1.1)

X 3. If the vehicle has an adjustable accelerator pedal, place it in the full forward position. (S16.3.2.2.1)  
X N/A accelerator pedal not adjustable

X 4. Fully recline the seat back. (S16.3.2.1.2)  
__ N/A seat back not adjustable.

X 5. Place the dummy in the seat with the legs at an angle of 120 degrees to the thighs. The calves should not be touching the seat cushion. (S16.3.2.1.2)

X 6. Position the dummy in the seat such that the midsagittal plane is coincident with the longitudinal seat cushion markings as determined in Data Sheet 14.1. (S16.3.2.1.3 and S16.3.2.1.4)

X 7. Hold down the dummy’s thighs and push rearward on the upper torso to maximize the pelvic angle. (S16.3.2.1.5)

X 8. Set the angle between the legs and the thighs to 120 degrees. (S16.3.2.1.6)

X 9. Set the transverse distance between the centers of the front of the knees at 160 to 170 mm. (6.3 to 6.7 inches) Center the knee separation with respect to the longitudinal seat cushion marking as determined Data Sheet 14.1. (S16.3.2.1.6)  
Record Knee Separation 164

X 10. Push rearward on the dummy’s knees until the pelvis contacts the seat back, or the backs of the calves contact the seat cushion, whichever occurs first. (S16.3.2.1.6)  
__Pelvis contacted seat back.  
X Calves contacted seat cushion.
11. Gently rock the upper torso ± 5 degrees (approximately 51 mm (2 inches)) side-to-side three time. (S16.3.2.1.7)

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

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

14. Rotate the left leg and thigh laterally to equalize the distance between each knee and the longitudinal seat cushion marking as determined in Data Sheet 14.1. (S16.3.2.1.8)

15. Attempt to return the seat to the foremost fore-aft position, mid-height, and seat cushion mid-angle as determined in Data Sheet 14.2. The foot may contact and depress the accelerator and/or change the angle of the foot with respect to the leg. (S16.3.2.1.8)
   X Foremost position achieved. Proceed to step 20.
   __Foremost not achieved because of foot interference. Proceed to step 17.
   __Foremost not achieved because of steering wheel contact.

16. If either of the dummy's legs contact the steering wheel, move the steering wheel up the minimum amount required to avoid contact. If the steering wheel is not adjustable separate the knees the minimum required to avoid contact. (S16.3.2.1.8)
   __N/A- there was no leg contact
   __Steering wheel repositioned
   __Knees separated

17. If the left foot interferes with the clutch or brake pedals, rotate the left foot about the leg to provide clearance. If this is not sufficient, rotate the thigh outboard at the hip the minimum amount required for clearance. (S16.3.2.1.8)
   __N/A, No foot interference with pedals.
   __Foot adjusted to provide clearance.
   __Foot and Thigh adjusted to provide clearance.

18. Continue to move the seat. Use seat controls to line up the seat markings determined during the completion of Data Sheet 14.1 to set the foremost fore-aft position, mid-height position and the seat cushion mid-angle. If the dummy contacts the interior move the seat rearward until a maximum clearance of 5 mm (0.2 inches) is achieved or the seat is in the closest detent position that does not cause dummy contact. (S16.3.2.1.8)
   __Foremost, mid-height position and the seat cushion mid-angle reached
   __Dummy contact. Clearance set at maximum of 5mm
   Measured Clearance______________
   __Dummy Contact. Seat set at nearest detent position.
   Seat position ____ detent positions rearward of foremost (foremost is position zero)
19. If the steering wheel was repositioned in step 16, return the steering wheel to the original position. If the steering wheel contacts the dummy before reaching the original position, position the wheel until a maximum clearance of 5mm (.2 inches) is achieved, or the steering wheel is in the closest detent position that does not cause dummy contact. (S16.3.2.1.8)

- N/A Steering wheel was not repositioned.
- Original position achieved.
- Dummy contact. Clearance set at maximum of 5mm
  Measured Clearance
- Dummy Contact. Steering wheel set at nearest detent position.
  Steering wheel position ___ detent positions upward of original position.
  (Original position is position zero)

20. If the seat back is adjustable, rotate the seat back forward while holding the thighs in place. Continue rotating the seat back forward until the transverse instrument platform of the dummy head is level ± 0.5 degrees. If the head cannot be leveled using the seat back adjustment, or the seat back is not adjustable, use the lower neck bracket adjustment to level the head. If a level position cannot be achieved, minimize the angle. (S16.3.2.1.9)

- Head Level Achieved. (Check all that apply)
  - Head leveled using the adjustable seat back
  - Head leveled using the neck bracket.
  - Head Angle ____________ degrees
- Head Level NOT Achieved. (Check all that apply)
  - Head adjusted using the adjustable seat back
  - Head adjusted using the neck bracket.
  - Head Angle ____________ degrees

21. Verify the pelvis is not interfering with the seat bight. (S16.3.2.1.9)

- No interference
- Pelvis moved forward the minimum amount so that it is not caught in the seat bight.

22. Verify the dummy abdomen is properly installed. (S16.3.2.1.9)

- Abdomen still seated properly into dummy
- Abdomen was adjusted because it was not seated properly into dummy

23. Head Angle

- N/A, neither the pelvis nor the abdomen were adjusted.

23.1 Head still level (Go to 24)

- 23.2 Head level adjusted
  - Head Level Achieved. (Check all that apply)
    - Head leveled using the adjustable seat back
    - Head leveled using the neck bracket.
    - Head Angle ____________ degrees
  - Head Level NOT Achieved. (Check all that apply)
    - Head level adjusted using the adjustable seat back
    - Head level adjusted using the neck bracket.
    - Head Angle ____________ degrees
24. If the dummy torso contacts the steering wheel while performing step 20, reposition the steering wheel in the following order to eliminate contact. (S16.3.2.1.9) 

N/A, No dummy torso contact with the steering wheel.

24.1 Adjust telescoping mechanism.
   N/A No telescoping adjustment.
   Adjustment performed (fill in appropriate change)
   Steering wheel moved ____ detent positions in the forward direction.
   Steering wheel moved ____ mm in the forward direction.

24.2 Adjust tilt mechanism.
   N/A No tilt adjustment.
   No adjustment performed.
   Adjustment performed.
   Steering wheel moved ____ detent positions Upward/Downward.
   (circle one)
   Steering wheel moved ____ degrees Upward/Downward

24.3 Adjust Seat in the aft direction.
   No Adjustment performed.
   Seat moved aft ____ mm from original position.
   Seat moved aft ____ detent positions from the original position.

25. Measure and set the pelvic angle using the pelvic angle gage TE-2504. The pelvic angle should be 20.0 degrees ± 2.5 degrees. If the pelvic angle cannot be set to the specified range because the head will not be level or because the dummy will have need major repositioning, adjust the pelvis as closely as possible to the angle range, but keep the head level. (S16.3.2.1.11)

Pelvic angle set to 20.0 degrees ± 2.5 degrees.
   Pelvic angle of 20.0 degrees not achieved, the angular difference was minimized.
   Record the pelvic angle. ____22.1 degrees

26. Check the dummy for contact with the interior after completing adjustments. (S16.3.2.1.12)
   No contact.
   Dummy in contact with interior.
   Seat moved aft ____ mm from the previous position.
   Seat moved aft ____ detent positions from the previous position.

27. Check the dummy to see if additional interior clearance is obtained, allowing the seat to be moved forward. (S16.3.2.1.12)
   N/A, Seat already at foremost position.
   Clearance unchanged. No adjustments required.
   Additional clearance available
   Seat moved Forward ____ mm from the previous position.
   Seat moved Forward ____ detent positions from the previous position.

28. Driver’s foot positioning, right foot. Place the foot perpendicular to the leg and determine if the heel contacts the floor pan at any leg position. If the heel contacts the floor pan proceed to step 29 otherwise, proceed to step 30. (S16.3.2.2.1)
29. Perform the following steps until either all steps are completed, or the foot contacts the accelerator pedal. Step 29.6 shall be completed in all cases. (S16.3.2.2.1(a))

29.1 With the rear of the heel contacting the floor pan, move the foot forward until pedal contact occurs or the foot is at the full forward position.

29.2 If the vehicle has an adjustable accelerator pedal, move the pedals rearward until pedal contact occurs or the pedals reach the full rearward position.

29.3 Extend the leg, allowing the heel to lose contact with the floor until the foot contacts the pedal. Do not raise the toe of the foot higher than the top of the accelerator pedal. If the foot does not contact the pedal, proceed to the next step. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.3)

29.4 Angle the foot to achieve contact between the foot and the pedal. If the foot does not contact the pedal, return the foot to the perpendicular orientation. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.3)

29.5 Align the centerline of the foot with the vertical-longitudinal plane passing through the center of the accelerator pedal. Place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.3)

29.6 Record foot position
   Pedal Contact achieved. Contact occurred at step _______.
      Heel contacts floor pan
      Heel set _____ mm from floor pan.
   Pedal Contact not achieved. Heel set _____ mm from the floor pan.
FIGURE G1

**30.** Perform the following steps until either all steps are completed, or the foot contacts the accelerator pedal. Step 30.5 shall be completed in all cases.

**30.1** Extend the leg until the foot contacts the pedal. Do not raise the toe of the foot higher than the top of the accelerator pedal. If the foot does not contact the pedal, proceed to the next step. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.1(b) & S16.3.2.2.3)

**30.2** If the vehicle has an adjustable accelerator pedal, move the pedals rearward until pedal contact occurs or the pedals reach the full rearward position. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.1(b) & S16.3.2.2.3)

**N/A** No pedal adjustment

**30.3** Angle the foot to achieve contact between the foot and the pedal. If the foot does not contact the pedal, return the foot to the perpendicular orientation. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.2 & S16.3.2.2.3)

**30.4** Align the centerline of the foot in the same horizontal plane as the centerline of the accelerator pedal. Place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.3)
30.5 Record foot position

- Pedal Contact achieved. Contact occurred at step 30.1.
- Heel set 45 mm from floor pan.
- Pedal Contact not achieved. Heel set ____ mm from the floor pan.

31. Driver's foot positioning, left foot.

31.1 Place the foot perpendicular to the leg and determine if the heel contacts the floor pan at any leg position. If the heel contacts the floor pan proceed to step 31.2, otherwise position the leg as perpendicular to the thigh as possible with the foot parallel to the floor pan. (S16.2.2.6)

31.2 Place the foot on the toe board with the heel resting on the floor pan as close to the intersection of the floor pan and the toe board as possible. Adjust the angle of the foot if necessary to contact the toe board. If the foot will not contact the toe board, set the foot perpendicular to the leg, and set the heel on the floor pan as far forward as possible. Avoid contact with the brake pedal, clutch pedal, wheel well projection, and footrest. To avoid this contact use the following three manipulations in the order listed, with each subsequent option incorporating the previous, until contact is avoided: rotate the foot about the lower leg (abduction/adduction), plantar flex the foot, rotate the leg outboard about the hip. Movement should be the minimum amount necessary. If it is not possible to avoid all foot contact, give priority to avoiding brake or clutch pedal contact. (S16.2.2.4 & S16.2.2.5 & S16.2.2.7)

- No contact
- Foot rotated about the leg (abduction/adduction)
- Foot rotated about the leg, and foot plantar flexed
- Foot rotated about the leg, foot plantar flexed, and the leg rotated about the hip.

31.3 Record foot position.

- Heel does not contact floor pan.
- Heel on floor pan and foot on toe board.
- Heel on floor pan and foot not on toe board.

32. Driver arm/hand positioning.

32.1 Place the dummy’s upper arms adjacent to the torso with the arm centerlines as close to a vertical longitudinal plane as possible. (S16.3.2.3.1)

32.2 Place the palms of the dummy in contact with the outer part of the steering wheel rim at its horizontal centerline with the thumbs over the steering wheel rim. (S16.3.2.3.2)

32.3 If it is not possible to position the thumbs inside the steering wheel rim at its horizontal centerline, then position them above and as close to the horizontal centerline of the steering wheel rim as possible. (S16.3.2.3.3)

32.4 Lightly tape the hands to the steering wheel rim so that if the hand of the test dummy is pushed upward by a force of not less than 9 N (2 lb) and not more than 22 N (5 lb), the tape releases the hand from the steering wheel rim. S16.3.2.3.4

33. Adjustable head restraints

- N/A, there is no head restraint adjustment
__33.1 If the head restraint has an automatic adjustment, leave it where the system positions the restraint after the dummy is placed in the seat. (S16.3.4.1) Go to 34.

__33.2 Adjust each head restraint vertically so that the mid-horizontal plane determined in Data Sheet 14.1 is aligned with the center of gravity (CG) of the dummy head. (S16.3.4.3)

__33.3 If the above position is not attainable, move the vertical center of the head restraint to the closest detent below the center of the head CG. (S16.3.4.3) If N/A midpoint position attained in previous step

X 33.3 Headrest set at nearest detent below the head CG

__33.4 If the head restraint has a fore and aft adjustment, place the restraint in the foremost position or until contact with the head is made, whichever occurs first. (S16.3.4.4)

X 34. Driver and passenger manual belt adjustment (for tests conducted with a belted dummy). (S16.3.5)

X 34.1 If an adjustable seat belt D-ring anchorage exists, place it in the manufacturer’s design position for a 5th percentile adult female. (S16.3.5.1) This information will be supplied by the COTR.

Manufacturer’s specified position _Lowest_ Actual Position _Lowest_

X 34.2 Place the Type 2 manual belt around the test dummy and fasten the latch. (S16.3.5.2)

X 34.3 Ensure that the dummy’s head remains as level as possible. (S16.3.5.3)

X 34.4 Remove all slack from the lap belt. Pull the upper torso webbing out of the retractor and allow it to retract; repeat this operation four times. Apply a 9 N (2 lbf) to 18 N (4 lbf) tension load to the lap belt. If the belt system is equipped with a tension-relieving device, introduce the maximum amount of slack into the upper torso belt that is recommended by the manufacturer. If the belt system is not equipped with a tension-relieving device, allow the excess webbing in the shoulder belt to be retracted by the retractive force of the retractor. (S16.3.5.4)

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

Signature: __________________________ Date: 8/6/07
APPENDIX G

DUMMY POSITIONING PROCEDURES
FOR 5th% PASSENGER TEST DUMMY CONFORMING TO SUBPART O OF PART 572

Test Vehicle: 2007 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>Yes</td>
</tr>
<tr>
<td>TEST SPEED:</td>
<td>X 32 to 40 kmph</td>
</tr>
<tr>
<td>DRIVER DUMMY:</td>
<td>X 5th female</td>
</tr>
<tr>
<td>PASSENGER DUMMY:</td>
<td>X 5th female</td>
</tr>
</tbody>
</table>

(Check this item ONLY if it applies to this vehicle.)

The passenger seat adjustments are controlled by the adjustments made to the driver’s seat. Therefore, positioning of the passenger dummy is made simultaneously with the driver dummy. Adjustments made to the seat to position the driver will over ride any adjustments that would normally be made to position the passenger. (S16.2.10.3)

X 1. Place the SCRP in the full rearward, mid-height position, and mid-seat cushion angle, determined during the completion of Data Sheet 14.1. (S16.3.3.1.1)

X 2. Fully recline the seat back. (S16.3.3.1.2)
   _ N/A seat back not adjustable.

X 3. Place the dummy in the seat with the legs at an angle of 120 degrees to the thighs. The calves should not be touching the seat cushion. (S16.3.3.1.2)

X 4. Position the dummy in the seat such that the midsagittal plane is coincident with the longitudinal seat cushion marking that was determined in Data Sheet 14.1. (S16.3.3.1.3 and S16.3.3.1.4)

X 5. Hold down the dummy’s thighs and push rearward on the upper torso to maximize the pelvic angle. (S16.3.3.1.5)

X 6. Set the angle between the legs and the thighs to 120 degrees. (S16.3.3.1.6)

X 7. Set the transverse distance between the centers of the front of the knees at 160 to 170 mm. (6.3 to 6.7 inches). Center the knee separation with respect to the longitudinal seat cushion marking that was determined Data Sheet 14.1. (S16.3.3.1.6)
   Record Knee Separation ______ 165

X 8. Push rearward on the dummy’s knees until the pelvis contacts the seat back, or the backs of the calves contact the seat cushion, whichever occurs first. (S16.3.3.1.6)
   _ Pelvis contacted seat back.
   X Calves contacted seat cushion.

X 9. Gently rock the upper torso ± 5 degrees (approximately 51 mm (2 inches)) side-to-side three times. (S16.3.3.1.7)
10. If needed, extend the legs until the feet do not contact the floor pan. The thighs should be resting on the seat cushion. (S16.3.3.1.8)

11. Use seat controls to line up the seat markings determined during the completion of Data Sheet 14.1 to set the foremost fore-aft position, mid-height position and the seat cushion mid-angle. If the dummy contacts the interior move the seat rearward until a maximum clearance of 5 mm (0.2 inches) is achieved or the seat is in the closest detent position that does not cause dummy contact. (S16.3.3.1.8)

   Foremost, mid-height position and the seat cushion mid-angle reached
   __Dummy contact. Clearance set at maximum of 5mm
   Measured Clearance______________
   __Dummy Contact. Seat set at nearest detent position.
   Seat position ___ detent positions rearward of foremost
   (foremost is position zero)

12. If the seat back is adjustable, rotate the seat back forward while holding the thighs in place. Continue rotating the seat back forward until the transverse instrument platform of the dummy head is level ± 0.5 degrees. If head cannot be leveled using the seat back adjustment, or the seat back is not adjustable, use the lower neck bracket adjustment to level the head. If a level position cannot be achieved, adjust the head as closely as possible to the ± 0.5 degree range. (S16.3.3.1.9 and S16.3.3.1.10)

   (Check All That Apply)
   __Seat back not adjustable
   __Seat back not independent of driver side seat back
   X Head Level Achieved. (Check all that apply)
   X Head leveled using the adjustable seat back
   __Head leveled using the neck bracket.
   Head Angle ______ 0.3 ______ degrees
   __Head Level NOT Achieved. (Check all that apply)
   __ Head adjusted using the adjustable seat back
   __ Head adjusted using the neck bracket.
   Head Angle ______________ degrees

13. Verify the pelvis is not interfering with the seat bight. (S16.3.3.1.9)

   X No interference
   __Pelvis moved forward the minimum amount so that it is not caught in the seat bight.

14. Verify the dummy abdomen is properly installed. (S16.3.3.1.9)

   X Abdomen still seated properly into dummy
   __Abdomen was adjusted because it was not seated properly into dummy

15. Head Angle

   X N/A, neither the pelvis nor the abdomen were adjusted.

15.1 Head still level (Go to 16)
Head Level Adjusted

**Head Level Achieved. (Check all that apply)**
- Head leveled using the adjustable seat back
- Head leveled using the neck bracket.

**Head Angle** [degrees]

**Head Level NOT Achieved. (Check all that apply)**
- Head adjusted using the adjustable seat back
- Head adjusted using the neck bracket.

**Head Angle** [degrees]

---

*16. Measure and set the pelvic angle using the pelvic angle gage TE-2504. The pelvic angle should be 20.0 degrees ± 2.5 degrees. If the pelvic angle cannot be set to the specified range because the head will not be level or because the dummy will have need major repositioning, adjust the pelvis as closely as possible to the angle range, but keep the head level.*

X Pelvic angle set to 20.0 degrees ± 2.5 degrees.

**Pelvic angle of 20.0 degrees not achieved, the angular difference was minimized.**

*Record the pelvic angle.**

---

**17. Check the dummy for contact with the interior after completing adjustments.**

X No contact.

- Dummy in contact with interior.
  - Seat moved aft ___ mm from the previous position.
  - Seat moved aft ___ detent positions from the previous position.

---

**18. Verify the transverse instrument platform of the dummy head is level +/- 0.5 degrees. Use the lower neck bracket adjustment to level the head. If a level position cannot be achieved, minimize the angle. (S16.3.3.1.9, S16.3.3.1.10, and S16.3.3.1.11)**

X Head Level Achieved

**Head Angle** [degrees]

**Head Level NOT Achieved.**

**Head Angle** [degrees]

---

**19. Check the dummy to see if additional interior clearance is obtained, allowing the seat to be moved forward. (S16.3.3.1.12)**

X N/A Bench Seat

- Clearance unchanged. No adjustments required.
- Additional clearance available
  - Seat moved Forward ___ mm from the previous position.
  - Seat moved Forward ___ detent positions from the previous position.
  - Seat moved Forward, Full Forward position reached.

---

**20. Passenger foot positioning. (Indicate final position achieved) (S16.3.3.2)**

**20.1 Place feet flat on the toe board; OR (S16.3.3.2.1)**

X 20.2 If the feet cannot be placed flat on the toe board, set the feet perpendicular to the lower leg, and rest the heel as far forward on the floor pan as possible; OR (S16.3.3.2.2)

**20.3 If the heels do not touch the floor pan, set the legs as perpendicular to the thighs as possible and set the feet parallel to the floor pan. (S16.3.3.2.2)**
21. Passenger arm/hand positioning. (S16.3.3.3)

21.1 Place the dummy’s upper arms adjacent to the torso with the arm centerlines as close to a vertical longitudinal plane as possible. (S16.3.3.3.1)

21.2 Place the palms of the dummy in contact with the outer part of the thighs (S16.3.3.3.2)

21.3 Place the little fingers in contact with the seat cushion. (S16.3.3.3.3)

22. Adjustable head restraints (S16.3.4)

__N/A, there is no head restraint adjustment

22.1 If the head restraint has an automatic adjustment, leave it where the system positions the restraint after the dummy is placed in the seat. (S16.3.4.1) Go to 23.

22.2 Adjust each head restraint vertically so that the horizontal plane determined in Data Sheet 14.1 is aligned with the center of gravity (CG) of the dummy head. (S16.3.4.3)

22.3 If the above position is not attainable, move the vertical center of the head restraint to the closest detent below the center of the head CG. (S16.3.4.3)

__N/A midpoint position attained in previous step

Headrest set at nearest detent below the head CG

22.4 If the head restraint has a fore and aft adjustment, place the restraint in the foremost position or until contact with the head is made, whichever occurs first. (S16.3.4.4)

23. Manual belt adjustment (for tests conducted with a belted dummy) S16.3.5

__N/A, Unbelted test

23.1 If an adjustable seat belt D-ring anchorage exists, place it in the manufacturer’s design position for a 5th percentile adult female. This information will be supplied by the COTR. (S16.3.5.1)

Manufacturer’s specified position _Lowest __________________________
Actual Position _Lowest __________________________

23.2 Place the Type 2 manual belt around the test dummy and fasten the latch. (S16.3.5.2)

23.3 Ensure that the dummy’s head remains as level as possible. (S16.3.5.3)

23.4 Remove all slack from the lap belt. Pull the upper torso webbing out of the retractor and allow it to retract; repeat this operation four times. Apply a 9 N (2 lbf) to 18 N (4 lbf) tension load to the lap belt. If the belt system is equipped with a tension-relieving device, introduce the maximum amount of slack into the upper torso belt that is recommended by the manufacturer. If the belt system is not equipped with a tension-relieving device, allow the excess webbing in the shoulder belt to be retracted by the retractive force of the retractor. (S16.3.5.4)

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

Signature: __________________________ Date: 8/6/07
DATA SHEET 37
DUMMY MEASUREMENTS

Test Vehicle: 2007 Dodge Ram
Test Program: FMVSS 208 Compliance
Test Technician: Joe Fleck
NHTSA No.: C70306
Test Date: 8/6/07

DUMMY MEASUREMENTS FOR FRONT SEAT OCCUPANTS

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD</td>
<td>Chest to Dash</td>
</tr>
<tr>
<td>CS</td>
<td>Chest to Steering Wheel Hub</td>
</tr>
<tr>
<td>HH</td>
<td>Head to Header</td>
</tr>
<tr>
<td>HW</td>
<td>Head to Windshield</td>
</tr>
<tr>
<td>HZ</td>
<td>Head to Roof</td>
</tr>
<tr>
<td>KK</td>
<td>Knee to Knee</td>
</tr>
<tr>
<td>AD</td>
<td>Arm to Door</td>
</tr>
<tr>
<td>HD</td>
<td>H-Point to Door</td>
</tr>
<tr>
<td>HR</td>
<td>Head to Side Header</td>
</tr>
<tr>
<td>HS</td>
<td>Head to Side Window</td>
</tr>
<tr>
<td>SHY</td>
<td>Striker to H-Point (Y Axis)</td>
</tr>
<tr>
<td>ST</td>
<td>Striker to Head</td>
</tr>
<tr>
<td>SK</td>
<td>Striker to Knee</td>
</tr>
<tr>
<td>ST</td>
<td>Striker to Head</td>
</tr>
<tr>
<td>SWA</td>
<td>Steering Wheel Angle</td>
</tr>
<tr>
<td>TA</td>
<td>Tibial Angle</td>
</tr>
<tr>
<td>WA</td>
<td>Windshield Angle</td>
</tr>
</tbody>
</table>

CD Chest to Dash
CS Chest to Steering Wheel Hub
HH Head to Header
HW Head to Windshield
HZ Head to Roof
KK Knee to Knee
AD Arm to Door
HD H-Point to Door
HR Head to Side Header
HS Head to Side Window
SHY Striker to H-Point (Y Axis)
<table>
<thead>
<tr>
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<th>Passenger SN 505</th>
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<td>Angle (°)</td>
<td>Length (mm)</td>
<td>Angle (°)</td>
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</tr>
<tr>
<td>SCA</td>
<td>Steering Column Angle</td>
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<td>23.0</td>
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<td>SA</td>
<td>Seat Back Angle (On Headrest)</td>
<td>9.7</td>
<td>6.3</td>
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<td>HZ</td>
<td>Head to Roof (Z)</td>
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<td>235</td>
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<td>235</td>
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<tr>
<td>HH</td>
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<td>Chest to Dash</td>
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<td>421</td>
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<td>Rim to Abdomen</td>
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<td>36.2</td>
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<td>KDR</td>
<td>Right Knee to Dash</td>
<td>87</td>
<td>85</td>
<td>26.1</td>
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<td>PA</td>
<td>Pelvic Angle</td>
<td>22.1</td>
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<td>TA</td>
<td>Tibia Angle</td>
<td>63.6</td>
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<td>59.1</td>
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<tr>
<td>KK</td>
<td>Knee to Knee (Y)</td>
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<td>225</td>
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<td>SK</td>
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<td>39.5</td>
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<tr>
<td>SH</td>
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<td>SHY</td>
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<tr>
<td>HS</td>
<td>Head to Side Window</td>
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<td>334</td>
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<tr>
<td>HD</td>
<td>H-Point to Door (Y)</td>
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<td>223</td>
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<td></td>
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<tr>
<td>AD</td>
<td>Arm to Door (Y)</td>
<td>186</td>
<td>212</td>
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<td></td>
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<tr>
<td>AA</td>
<td>Ankle to Ankle</td>
<td>234</td>
<td>175</td>
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</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>295</td>
<td>295</td>
</tr>
<tr>
<td>PBL - Top surface of reference to belt lower edge</td>
<td>mm</td>
<td>210</td>
<td>210</td>
</tr>
</tbody>
</table>
DATA SHEET 38
CRASH TEST

Test Vehicle: 2007 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>Yes</td>
</tr>
<tr>
<td>TEST SPEED:</td>
<td>X 32 to 40 kmph</td>
</tr>
<tr>
<td>DRIVER DUMMY:</td>
<td>X 5th female</td>
</tr>
<tr>
<td>PASSENGER DUMMY:</td>
<td>X 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.

   240 kpa front left tire  
   240 kpa front right tire  
   240 kpa rear left tire  
   240 kpa rear right tire

   240 kpa specified on tire placard or in owner information

7. Time zero contacts on barrier in place.

8. Pre test zero and shunt calibration adjustments performed and recorded

9. Dummy temperature meets requirements of section 12.2 of the test procedure.

10. Vehicle hood closed and latched

11. Transmission placed in neutral

12. Parking brake off

13. Ignition in the ON position

14. Doors closed and latched but not locked

15. Posttest zero and shunt calibration checks performed and recorded

16. Actual test speed 39.8 kmph

17. Vehicle rebound from the barrier 102 cm

18. Describe whether the doors open after the test and what method is used to open the doors.

   X Left Front Door: Door remained closed and latched; Door opened without tools

   X Right Front Door: Door remained closed and latched; Door opened without tools

   X Left Rear Door: Door remained closed and latched; Door opened without tools

   X Right Rear Door: Door remained closed and latched; Door opened without tools
19. Describe the contact points of the dummy with the interior of the vehicle.
   X Driver Dummy: Head to Steering Wheel and Headrest; Knees to Knee Bolster
   X Passenger Dummy: Head to Headrest; Knees to Glove Box

REMARKS:

I certify that I have read and performed each instruction.

Signature: ___________________________ Date: 8/6/07
**DATA SHEET NO. 39**

**OFFSET DEFORMABLE BARRIER TEST USING BELTED 5th PERCENTILE FEMALE DUMMIES**

*(Part 572, Subpart O) (S18)*

<table>
<thead>
<tr>
<th>Test Vehicle:</th>
<th>2007 Dodge Ram</th>
<th>NHTSA No.:</th>
<th>C70306</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
<td>Test Date:</td>
<td>8/6/07</td>
</tr>
<tr>
<td>Test Technician:</td>
<td>Joe Fleck</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Impact Angle:
- Zero Degrees LH 40% ODB

### Belted Dummies (Yes/No):
- Yes

### Test Speed:
- X 32 to 40 kmph
- __ 0 to 48 kmph
- __ 0 to 56 kmph

### Driver Dummy:
- X 5th female
- __ 50th male

### Passenger Dummy:
- X 5th female
- __ 50th male

Barrier Serial Number: 015B0206

Driver dummy Serial Number: 506    Passenger Dummy Serial Number: 505

Vehicle Speed (39.8) 40 km/hr Offset 40 Percent

### 1.0 Pre-Test Activities

X 1.1 Complete the following data sheets
- X 1.1.1 Vehicle Receiving and Inspection
- X 1.1.2 Vehicle Weight, Fuel Tank, and Attitude
- X 1.1.3 Vehicle Accelerometer Location
- X 1.1.4 General Test Vehicle Data
- X 1.1.5 Photographic Targets
- X 1.1.6 Camera Locations
- X 1.1.7 5th Percentile Female Dummy Calibration
- X 1.1.8 Appendix G 5th Percentile Female Dummy Seating and Positioning Procedure
1.2 Barrier Certification
   1.2.1 Verify the offset deformable barrier materials and construction are certified to Subpart C of 49 CFR 587. (Attach vendor certification sheets to this data sheet.)

---

**OFFSET FRONTAL BARRIER CERTIFICATION**

Date: March 29, 2006

To: MGA Research Corporation
   5000 Warren Road
   Burlington, WI 53105

**PURCHASE ORDER INFORMATION**

Customer P.O. Number: 03-06-0484
Work Order Number: 147175
Plascore Part Number: 20670
Quantity: 01 piece

**CORE INFORMATION**

Core Type: PCGA-3/4-1.8-P-3003
Cell Size: 0.750 inch
Density: 1.8 pcf

Block Number: 015B0206

This is to certify that the aluminum honeycomb core supplied, under the unit number provided, meets the crush requirements of 49.59 psi +0, -10% as per DWG# WG11.

Quality Assurance Representative
Amber Jensen

---
Crush Data
49.59 psi ±0.10% psi per DWG #WG11

<table>
<thead>
<tr>
<th>Specimen Number</th>
<th>Zone 1</th>
<th>Zone 2</th>
<th>Zone 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>49.19</td>
<td>47.89</td>
<td>49.03</td>
</tr>
<tr>
<td>2</td>
<td>48.63</td>
<td>47.55</td>
<td>46.71</td>
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<td>3</td>
<td>45.27</td>
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<td>46.36</td>
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<td>7</td>
<td>47.27</td>
<td>45.96</td>
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</tbody>
</table>
OFFSET FRONTAL BARRIER CERTIFICATION

Date: March 29, 2006

To: MGA Research Corporation
    5000 Warren Road
    Burlington, WI 53105

PURCHASE ORDER INFORMATION

Customer P.O. Number: 03-06-0484
Work Order Number: 147175
Plascore Part Number: 20670
Quantity: 01 piece

CORE INFORMATION

Core Type: PCGA-5.2-1/4-P-3003-T
Cell Size: 0.250 inch
Density: 5.2 pcf

Block Number: 066B0605

This is to certify that the aluminum honeycomb core supplied, under the unit number provided, meets the crush requirements of 248.1 psi ±0, -10% per DWG# WG11.

Amber Jensen
Quality Assurance Representative
Crush Data
248.1 psi +0, -10% psi per DWG #WG11

<table>
<thead>
<tr>
<th>Block Number: 066B0605</th>
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</tr>
<tr>
<td>6</td>
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<tr>
<td>7</td>
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</tbody>
</table>
1.3 Verify barrier measurements and complete the table below. (See Figure 1)

<table>
<thead>
<tr>
<th>Specified Dimension in mm +/- 2.5 unless specified</th>
<th>Measured Dimension in mm</th>
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</thead>
<tbody>
<tr>
<td>Main Body Height RH Side</td>
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</tr>
<tr>
<td>Main Body Height LH Side</td>
<td>650</td>
</tr>
<tr>
<td>Floor to Lower Barrier LH</td>
<td>200 +/- 15</td>
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<tr>
<td>Floor to Lower Barrier RH</td>
<td>200 +/- 15</td>
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<tr>
<td>Main Body Width</td>
<td>1000</td>
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<tr>
<td>Bumper Element Width</td>
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<tr>
<td>Lower Slot width</td>
<td>4mm Max</td>
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</table>

1.3.1 All Dimensions within specified Tolerance

X Yes

1.4 Verify deformable barrier mounted using 10 bolts (8mm diameter minimum) and the steel strips specified.

1.5 Verify height of Fixed Rigid Barrier relative to vehicle being tested.

1.6 Photograph pre-test condition. Include photograph shown below.

- Pre-test frontal view of test vehicle
- Pre-test left side view of test vehicle
- Pre-test right side view of test vehicle
- Pre-test left front three-quarter view of test vehicle
- Pre-test right rear three-quarter view of test vehicle
- Pre-test windshield view
- Pre-test engine compartment view
- Pre-test fuel filler cap view
- Pre-test front underbody view
- Pre-test rear underbody view
- Pre-test driver dummy position with the door open and with the camera perpendicular to the longitudinal centerline of the vehicle and in line with the markings showing the fore-aft position of the seat.

Frontal Pre-test driver dummy position with the camera in the same plane as the longitudinal centerline of the dummy.

Frontal Pre-test passenger dummy position view with the camera in
the same plane as the longitudinal centerline of the dummy.

- Dummy contact point(s) (vehicle and dummy)
- Pre-test view of the knee bolsters.

Pre-test view of the steering column shear capsule if any part of it is visible. Do NOT disassemble any parts to take these photographs.

Pre-test under hood view of the steering column intersecting the firewall. Take the best photograph possible without removing any parts.

Pre-test view of the steering column intersecting the firewall from inside the vehicle. Take the best photograph possible without removing any parts.

2.0 Test Execution

X 2.1 Impact vehicle into offset deformable barrier at a speed of 25 km/hr +0/-2 km/hr

- Record Impact speed Trap 1 39.8 km/hr
- Trap 2 39.8 km/hr

- Speed at impact 25 km/hr +0/-2 km/hr X Yes / No

X 2.2 Strike barrier at offset of 10% of vehicle width +/- 50mm from the vehicle centerline.

- Vehicle Width 2022 mm as measured
- Required Offset 202 mm
- Actual Measured Offset 202 mm

- Offset within +/- 50mm X Yes / No

X 2.3 Vehicle attitude at impact 0.0 degrees +/- 5 degrees

- Impact angle 0.0 degrees

- Impact angle 0.0 +/- 5 degrees X Yes / No
3.0 Post Test Activities

3.1 Photograph post-test condition. Include photograph shown below.

- Post test frontal view of test vehicle
- Post test left side view of test vehicle
- Post test right side view of test vehicle
- Post test left front three-quarter view of test vehicle
- Post test right rear three-quarter view of test vehicle
- Post test windshield view
- Post test engine compartment view
- Post test fuel filler cap view
- Post test front underbody view
- Post test rear underbody view
- Post test driver dummy position with the door open and with the camera perpendicular to the longitudinal centerline of the vehicle and in line with the markings showing the fore-aft position of the seat.
- Frontal post test driver dummy position with the camera in the same plane as the longitudinal centerline of the dummy.
- Post test passenger dummy position with the door open and with the camera perpendicular to the longitudinal centerline of the vehicle and in line with the markings showing the fore-aft position of the seat.
- Frontal post test passenger dummy position view with the camera in the same plane as the longitudinal centerline of the dummy.
- Dummy contact point(s) (vehicle and dummy)
- Post test view of the knee bolsters.
- Post test view of the steering column shear capsule if any part of it is visible. Do NOT disassemble any parts to take these photographs.
- Post test under hood view of the steering column intersecting the fire wall. Take the best photograph possible without removing any parts.
- Post test view of the steering column intersecting the fire wall from inside the vehicle. Take the best photograph possible without removing any parts.
- Post test Stoddard solvent spillage location view, if required.
- Post test electrolyte spillage location view, if required.
- Post test top view of test vehicle while vehicle is on static rollover machine. (If applicable)

3.2 Process data channels per section 11.14 and record injury values in the Table.
### 5th Percentile Female Frontal Crash Test

**Vehicles certified to S16.1(a), S16.1(b), or S18.1**

<table>
<thead>
<tr>
<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Driver</th>
<th>Passenger</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIC15</td>
<td>700</td>
<td>186</td>
<td>38</td>
</tr>
<tr>
<td>N_{te}</td>
<td>1.0</td>
<td>0.4</td>
<td>0.3</td>
</tr>
<tr>
<td>N_{nf}</td>
<td>1.0</td>
<td>0.2</td>
<td>0.3</td>
</tr>
<tr>
<td>N_{ne}</td>
<td>1.0</td>
<td>0.1</td>
<td>0.1</td>
</tr>
<tr>
<td>N_{nf}</td>
<td>1.0</td>
<td>0.1</td>
<td>0.0</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2620 N</td>
<td>1077</td>
<td>783</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>232</td>
<td>42</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>20</td>
<td>14</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>10</td>
<td>9</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>801</td>
<td>1351</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>1545</td>
<td>804</td>
</tr>
</tbody>
</table>

All injury Criteria within limits

X  Pass

Fail

**X 3.3** Perform post-test calibration check.

![Fixed Rigid Barrier Diagram](image1)

**Figure 1**

(offset barrier diagram)

I certify that I have read and performed each instruction.

Signature: ___________________________  Date: 8/6/07
**IMPACT ANGLE:** Zero Degrees  
**BELTED DUMMIES (YES/NO):** Yes  
**TEST SPEED:**  
- X 32 to 40 kmph  
- 0 to 48 kmph  
- 0 to 56 kmph  
**DRIVER DUMMY:**  
- X 5th female  
- 50th male  
**PASSENGER DUMMY:**  
- X 5th female  
- 50th male  

<table>
<thead>
<tr>
<th>Vehicle Year/Make/Model/Body Style:</th>
<th>2007 Dodge Ram Truck</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIN:</td>
<td>1D7HA16K67J583702</td>
</tr>
<tr>
<td>Wheelbase:</td>
<td>3578 mm</td>
</tr>
<tr>
<td>Build Date:</td>
<td>3/07</td>
</tr>
<tr>
<td>Vehicle Size Category:</td>
<td>6</td>
</tr>
<tr>
<td>Test Weight:</td>
<td>2385.9 kg</td>
</tr>
<tr>
<td>Front Overhang:</td>
<td>949 mm</td>
</tr>
<tr>
<td>Overall Width:</td>
<td>2017 mm</td>
</tr>
<tr>
<td>Overall Length Center:</td>
<td>5824 mm</td>
</tr>
</tbody>
</table>

**Accelerometer Data**  
**Location:** As per measurements on Data Sheet 33  
**Linearity:** >99.9%  

<table>
<thead>
<tr>
<th>Integration Algorithm:</th>
<th>Trapezoidal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Impact Speed:</td>
<td>39.8 kmph</td>
</tr>
<tr>
<td>Time of Separation:</td>
<td>211.6 ms</td>
</tr>
<tr>
<td>Velocity Change:</td>
<td>42.8 kmph</td>
</tr>
</tbody>
</table>
CRUSH PROFILE

Collision Deformation Classification: 12FDEW6  
Midpoint of Damage: Vehicle Longitudinal Centerline  
Damage Region Length (mm): 1531  
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>5686</td>
<td>5332</td>
<td>354</td>
</tr>
<tr>
<td>C2</td>
<td>Crush zone 2 at left side</td>
<td>mm</td>
<td>5771</td>
<td>5426</td>
<td>345</td>
</tr>
<tr>
<td>C3</td>
<td>Crush zone 3 at left side</td>
<td>mm</td>
<td>5810</td>
<td>5494</td>
<td>316</td>
</tr>
<tr>
<td>C4</td>
<td>Crush zone 4 at right side</td>
<td>mm</td>
<td>5811</td>
<td>5635</td>
<td>176</td>
</tr>
<tr>
<td>C5</td>
<td>Crush zone 5 at right side</td>
<td>mm</td>
<td>5778</td>
<td>5805</td>
<td>-27</td>
</tr>
<tr>
<td>C6</td>
<td>Crush zone 6 at right side</td>
<td>mm</td>
<td>5685</td>
<td>5795</td>
<td>-110</td>
</tr>
</tbody>
</table>

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]
Date: 8/6/07
DATA SHEET 41
WINDSHIELD MOUNTING (FMVSS 212)

Retained with glue
Rubber trim

1. Pre-Crash
1.1 Describe from visual inspection how the windshield is mounted and describe any trim material.

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. 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?

Yes, Fail

No, Pass

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%?
## 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>694</td>
<td>694</td>
<td>100%</td>
</tr>
<tr>
<td>B</td>
<td>784</td>
<td>784</td>
<td>100%</td>
</tr>
<tr>
<td>C</td>
<td>870</td>
<td>870</td>
<td>100%</td>
</tr>
<tr>
<td>Total</td>
<td>2348</td>
<td>2348</td>
<td>100%</td>
</tr>
<tr>
<td><strong>Right Side</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>694</td>
<td>694</td>
<td>100%</td>
</tr>
<tr>
<td>E</td>
<td>782</td>
<td>782</td>
<td>100%</td>
</tr>
<tr>
<td>F</td>
<td>870</td>
<td>870</td>
<td>100%</td>
</tr>
<tr>
<td>Total</td>
<td>2346</td>
<td>2346</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: [Signature]  Date: 8/6/07
DATA SHEET 42
WINDSHIELD ZONE INTRUSION (FMVSS 219)

Test Vehicle: 2007 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>Yes</td>
</tr>
<tr>
<td>TEST SPEED:</td>
<td>X 32 to 40 kmph</td>
</tr>
<tr>
<td>DRIVER DUMMY:</td>
<td>X 5th female</td>
</tr>
<tr>
<td>PASSENGER DUMMY:</td>
<td>X 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>1388</td>
</tr>
<tr>
<td>B</td>
<td>mm</td>
<td>482</td>
</tr>
<tr>
<td>C</td>
<td>mm</td>
<td>1740</td>
</tr>
<tr>
<td>D</td>
<td>mm</td>
<td>782</td>
</tr>
<tr>
<td>E</td>
<td>mm</td>
<td>547</td>
</tr>
<tr>
<td>F</td>
<td>mm</td>
<td>488</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>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>X</th>
<th>Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signatures]  Date: 8/6/07
DATA SHEET 43
FUEL SYSTEM INTEGRITY (FMVSS 301)

Test Vehicle: 2007 Dodge Ram
Test Program: FMVSS 208 Compliance
Test Technician: Daniel Sienko

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>135</td>
<td>300</td>
<td>0.0</td>
</tr>
<tr>
<td>90° to 180°</td>
<td>135</td>
<td>300</td>
<td>0.0</td>
</tr>
<tr>
<td>180° to 270°</td>
<td>141</td>
<td>300</td>
<td>0.0</td>
</tr>
<tr>
<td>270° to 360°</td>
<td>151</td>
<td>300</td>
<td>0.0</td>
</tr>
</tbody>
</table>
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>
<td>5</td>
<td>Driver Head X Velocity vs. Time</td>
<td>A-2</td>
</tr>
<tr>
<td>6</td>
<td>Driver Head Y Velocity vs. Time</td>
<td>A-2</td>
</tr>
<tr>
<td>7</td>
<td>Driver Head Z Velocity vs. Time</td>
<td>A-2</td>
</tr>
<tr>
<td>8</td>
<td>Driver Neck Force X vs. Time</td>
<td>A-3</td>
</tr>
<tr>
<td>9</td>
<td>Driver Neck Force Y vs. Time</td>
<td>A-3</td>
</tr>
<tr>
<td>10</td>
<td>Driver Neck Force Z vs. Time</td>
<td>A-3</td>
</tr>
<tr>
<td>11</td>
<td>Driver Neck Force Resultant vs. Time</td>
<td>A-3</td>
</tr>
<tr>
<td>12</td>
<td>Driver Neck Moment X vs. Time</td>
<td>A-4</td>
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<tr>
<td>13</td>
<td>Driver Neck Moment Y vs. Time</td>
<td>A-4</td>
</tr>
<tr>
<td>14</td>
<td>Driver Neck Moment Z vs. Time</td>
<td>A-4</td>
</tr>
<tr>
<td>15</td>
<td>Driver Neck Moment Resultant vs. Time</td>
<td>A-4</td>
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<tr>
<td>16</td>
<td>Driver Chest X Acceleration vs. Time</td>
<td>A-5</td>
</tr>
<tr>
<td>17</td>
<td>Driver Chest Y Acceleration vs. Time</td>
<td>A-5</td>
</tr>
<tr>
<td>18</td>
<td>Driver Chest Z Acceleration vs. Time</td>
<td>A-5</td>
</tr>
<tr>
<td>19</td>
<td>Driver Chest Resultant Acceleration vs. Time</td>
<td>A-5</td>
</tr>
<tr>
<td>20</td>
<td>Driver Chest X Velocity vs. Time</td>
<td>A-6</td>
</tr>
<tr>
<td>21</td>
<td>Driver Chest Y Velocity vs. Time</td>
<td>A-6</td>
</tr>
<tr>
<td>22</td>
<td>Driver Chest Z Velocity vs. Time</td>
<td>A-6</td>
</tr>
<tr>
<td>23</td>
<td>Driver Chest Displacement vs. Time</td>
<td>A-6</td>
</tr>
<tr>
<td>24</td>
<td>Driver Left Femur Force vs. Time</td>
<td>A-7</td>
</tr>
<tr>
<td>25</td>
<td>Driver Right Femur Force vs. Time</td>
<td>A-7</td>
</tr>
<tr>
<td>26</td>
<td>Passenger Head X Acceleration vs. Time</td>
<td>A-8</td>
</tr>
<tr>
<td>27</td>
<td>Passenger Head Y Acceleration vs. Time</td>
<td>A-8</td>
</tr>
<tr>
<td>28</td>
<td>Passenger Head Z Acceleration vs. Time</td>
<td>A-8</td>
</tr>
<tr>
<td>29</td>
<td>Passenger Head Resultant Acceleration vs. Time</td>
<td>A-8</td>
</tr>
</tbody>
</table>
Figure No. 30. Passenger Head X Velocity vs. Time A-9
Figure No. 31. Passenger Head Y Velocity vs. Time A-9
Figure No. 32. Passenger Head Z Velocity vs. Time A-9
Figure No. 33. Passenger Neck Force X vs. Time A-10
Figure No. 34. Passenger Neck Force Y vs. Time A-10
Figure No. 35. Passenger Neck Force Z vs. Time A-10
Figure No. 36. Passenger Neck Force Resultant vs. Time A-10
Figure No. 37. Passenger Neck Moment X vs. Time A-11
Figure No. 38. Passenger Neck Moment Y vs. Time A-11
Figure No. 39. Passenger Neck Moment Z vs. Time A-11
Figure No. 40. Passenger Neck Moment Resultant vs. Time A-11
Figure No. 41. Passenger Chest X Acceleration vs. Time A-12
Figure No. 42. Passenger Chest Y Acceleration vs. Time A-12
Figure No. 43. Passenger Chest Z Acceleration vs. Time A-12
Figure No. 44. Passenger Chest Resultant Acceleration vs. Time A-12
Figure No. 45. Passenger Chest X Velocity vs. Time A-13
Figure No. 46. Passenger Chest Y Velocity vs. Time A-13
Figure No. 47. Passenger Chest Z Velocity vs. Time A-13
Figure No. 48. Passenger Chest Displacement vs. Time A-13
Figure No. 49. Passenger Left Femur Force vs. Time A-14
Figure No. 50. Passenger Right Femur Force vs. Time A-14
Figure No. 51. Driver Nij (N_{TF}) vs. Time A-15
Figure No. 52. Driver Nij (N_{TE}) vs. Time A-15
Figure No. 53. Driver Nij (N_{CF}) vs. Time A-15
Figure No. 54. Driver Nij (N_{CE}) vs. Time A-15
Figure No. 55. Passenger Nij (N_{TF}) vs. Time A-16
Figure No. 56. Passenger Nij (N_{TE}) vs. Time A-16
Figure No. 57. Passenger Nij (N_{CF}) vs. Time A-16
Figure No. 58. Passenger Nij (N_{CE}) vs. Time A-16
Figure No. 59. Driver Occipital Condyle Moment vs. Time A-17
<table>
<thead>
<tr>
<th>Figure No.</th>
<th>Description</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>Passenger Occipital Condyle Moment vs. Time</td>
<td>A-17</td>
</tr>
<tr>
<td>61</td>
<td>Left Rear Seat Crossmember X Acceleration vs. Time</td>
<td>A-18</td>
</tr>
<tr>
<td>62</td>
<td>Left Rear Seat Crossmember X Velocity vs. Time</td>
<td>A-18</td>
</tr>
<tr>
<td>63</td>
<td>Right Rear Seat Crossmember X Acceleration vs. Time</td>
<td>A-18</td>
</tr>
<tr>
<td>64</td>
<td>Right Rear Seat Crossmember X Velocity vs. Time</td>
<td>A-18</td>
</tr>
<tr>
<td>65</td>
<td>Top of Engine X Acceleration vs. Time</td>
<td>A-19</td>
</tr>
<tr>
<td>66</td>
<td>Top of Engine X Velocity vs. Time</td>
<td>A-19</td>
</tr>
<tr>
<td>67</td>
<td>Bottom of Engine X Acceleration vs. Time</td>
<td>A-19</td>
</tr>
<tr>
<td>68</td>
<td>Bottom of Engine X Velocity vs. Time</td>
<td>A-19</td>
</tr>
<tr>
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25 MPH LH 40% ODB BELTED
2007 DODGE RAM (C70306)

Test Date: 08/06/2007
Speed: 24.7 mph (39.8 km/h)

Max: 3.7 G's
Tmax: 62.1 ms
Min: -45.7 G's
Tmin: 102.5 ms
CFC 1000

Max: 6.3 G's
Tmax: 161.0 ms
Min: -16.5 G's
Tmin: 149.2 ms
CFC 1000

Max: 30.3 G's
Tmax: 105.0 ms
Min: -2.2 G's
Tmin: 53.8 ms
CFC 1000

Max: 52.5 G's
Tmax: 102.4 ms
Min: 0.0 G's
Tmin: 0.0 ms
CFC 1000
25 MPH LH 40% ODB BELTED
2007 DODGE RAM (C70306)
Test Date: 08/06/2007
Speed: 24.7 mph (39.8 km/h)

DRIVER HEAD X Velocity (kph) vs TIME (ms)
Max: 41.1 kph
Tmax: 67.4 ms
Min: -7.4 kph
Tmin: 218.9 ms
CFC 180

DRIVER HEAD Y Velocity (kph) vs TIME (ms)
Max: 1.1 kph
Tmax: 214.3 ms
Min: -4.6 kph
Tmin: 154.1 ms
CFC 180

DRIVER HEAD Z Velocity (kph) vs TIME (ms)
Max: 50.1 kph
Tmax: 300.0 ms
Min: -1.4 kph
Tmin: 60.2 ms
CFC 180
**25 MPH LH 40% ODB BELTED**

**2007 DODGE RAM (C70306)**

Test Date: 08/06/2007

Speed: 24.7 mph (39.8 km/h)

---

**DRIVER CHEST X (G's) vs TIME (ms)**

- Max: 1.6 G's
- Tmax: 300.0 ms
- Min: -22.1 G's
- Tmin: 103.2 ms
- CFC 180

---

**DRIVER CHEST Y (G's) vs TIME (ms)**

- Max: 4.7 G's
- Tmax: 103.3 ms
- Min: -3.0 G's
- Tmin: 160.2 ms
- CFC 180

---

**DRIVER CHEST Z (G's) vs TIME (ms)**

- Max: 8.8 G's
- Tmax: 115.4 ms
- Min: -4.1 G's
- Tmin: 53.1 ms
- CFC 180

---

**DRIVER CHEST Resultant (G's) vs TIME (ms)**

- Max: 23.9 G's
- Tmax: 103.1 ms
- Min: 0.0 G's
- Tmin: 0.0 ms
- CFC 180
25 MPH LH 40% ODB BELTED
2007 DODGE RAM (C70306)

Test Date: 08/06/2007
Speed: 24.7 mph (39.8 km/h)

Max: 382.3 N
Tmax: 121.0 ms
Min: -800.9 N
Tmin: 60.2 ms
CFC 600

Max: 195.6 N
Tmax: 121.5 ms
Min: -1545.4 N
Tmin: 57.7 ms
CFC 600
25 MPH LH 40% ODB BELTED
2007 DODGE RAM (C70306)

Test Date: 08/06/2007
Speed: 24.7 mph (39.8 km/h)

**PASSENGER HEAD X Velocity (kph) vs TIME (ms)**
- Max: 41.0 kph
- Tmax: 69.9 ms
- Min: -2.7 kph
- Tmin: 223.9 ms
- CFC 180

**PASSENGER HEAD Y Velocity (kph) vs TIME (ms)**
- Max: 6.1 kph
- Tmax: 300.0 ms
- Min: -0.2 kph
- Tmin: 88.7 ms
- CFC 180

**PASSENGER HEAD Z Velocity (kph) vs TIME (ms)**
- Max: 70.1 kph
- Tmax: 300.0 ms
- Min: -0.7 kph
- Tmin: 56.4 ms
- CFC 180
25 MPH LH 40% ODB BELTED
2007 DODGE RAM (C70306)

Test Date: 08/06/2007
Speed: 24.7 mph (39.8 km/h)

**PASSENGER NECK FX (N) vs TIME (ms)**
- Max: 72.0 N
- Tmax: 296.0 ms
- Min: -506.3 N
- Tmin: 144.0 ms

**PASSENGER NECK FY (N) vs TIME (ms)**
- Max: 124.0 N
- Tmax: 143.5 ms
- Min: -34.3 N
- Tmin: 73.2 ms

**PASSENGER NECK FZ (N) vs TIME (ms)**
- Max: 782.9 N
- Tmax: 100.9 ms
- Min: -42.4 N
- Tmin: 52.2 ms

**PASSENGER NECK FResultant (N) vs TIME (ms)**
- Max: 862.7 N
- Tmax: 101.0 ms
- Min: 1.1 N
- Tmin: 0.0 ms

CFC 1000
25 MPH LH 40% ODB BELTED
2007 DODGE RAM (C70306)
Test Date: 08/06/2007
Speed: 24.7 mph (39.8 km/h)

Max: 2.3 G's
Tmax: 286.8 ms
Min: -14.6 G's
Tmin: 94.2 ms
CFC 180

Max: 3.1 G's
Tmax: 136.8 ms
Min: -2.1 G's
Tmin: 89.4 ms
CFC 180

Max: 4.5 G's
Tmax: 99.4 ms
Min: -2.6 G's
Tmin: 53.6 ms
CFC 180

Max: 15.0 G's
Tmax: 94.3 ms
Min: 0.0 G's
Tmin: 0.0 ms
CFC 180
Test Date: 08/06/2007
Speed: 24.7 mph (39.8 km/h)

- Drv. nij (NTF) () vs TIME (ms)
  - Max: 0.2
  - Tmax: 126.4 ms
  - Min: 0.0
  - Tmin: 0.0 ms
  - CFC 600

- Drv. nij (NTE) () vs TIME (ms)
  - Max: 0.4
  - Tmax: 87.9 ms
  - Min: 0.0
  - Tmin: 0.0 ms
  - CFC 600

- Drv. nij (NCF) () vs TIME (ms)
  - Max: 0.1
  - Tmax: 151.5 ms
  - Min: 0.0
  - Tmin: 0.0 ms
  - CFC 600

- Drv. nij (NCE) () vs TIME (ms)
  - Max: 0.1
  - Tmax: 59.0 ms
  - Min: 0.0
  - Tmin: 0.0 ms
  - CFC 600
Test Date: 08/06/2007
Speed: 24.7 mph (39.8 km/h)

25 MPH LH 40% ODB BELTED
2007 DODGE RAM (C70306)

Dr. Occipital Condyle Moment (Nm) vs TIME (ms)
Max: 29.1 Nm
Tmax: 128.9 ms
Min: -17.8 Nm
Tmin: 84.2 ms
CFC 600

Pass. Occipital Condyle Moment (Nm) vs TIME (ms)
Max: 32.4 Nm
Tmax: 138.1 ms
Min: -15.7 Nm
Tmin: 86.5 ms
CFC 600
Test Date: 08/06/2007
Speed: 24.7 mph (39.8 km/h)

2007 DODGE RAM (C70306)

25 MPH LH 40% ODB BELTED

LEFT REAR SEAT CROSSMEMBER X (G's) vs TIME (ms)
- Max: 1.1 G's
- Tmax: 226.4 ms
- Min: -15.6 G's
- Tmin: 74.4 ms
- CFC 60

LEFT REAR SEAT CROSSMEMBER X Velocity (kph) vs TIME (ms)
- Max: 39.8 kph
- Tmax: 3.7 ms
- Min: -4.3 kph
- Tmin: 199.5 ms
- CFC 180

RIGHT REAR SEAT CROSSMEMBER X (G's) vs TIME (ms)
- Max: 1.0 G's
- Tmax: 241.1 ms
- Min: -15.0 G's
- Tmin: 89.0 ms
- CFC 60

RIGHT REAR SEAT CROSSMEMBER X Velocity (kph) vs TIME (ms)
- Max: 39.8 kph
- Tmax: 0.0 ms
- Min: -1.7 kph
- Tmin: 223.6 ms
- CFC 180
TOP OF ENGINE X (G's) vs TIME (ms)

Max: 1.9 G's
Tmax: 252.7 ms
Min: -12.8 G's
Tmin: 66.0 ms
CFC 60

TOP OF ENGINE X Velocity (kph) vs TIME (ms)

Max: 39.8 kph
Tmax: 0.6 ms
Min: -6.1 kph
Tmin: 226.6 ms
CFC 180

BOTTOM OF ENGINE X (G's) vs TIME (ms)

Max: 1.4 G's
Tmax: 219.8 ms
Min: -16.9 G's
Tmin: 75.9 ms
CFC 60

BOTTOM OF ENGINE X Velocity (kph) vs TIME (ms)

Max: 39.8 kph
Tmax: 0.0 ms
Min: -5.9 kph
Tmin: 208.9 ms
CFC 180
25 MPH LH 40% ODB BELTED
2007 DODGE RAM (C70306)

Test Date: 08/06/2007
Speed: 24.7 mph (39.8 km/h)

LEFT BRAKE CALIPER X (G's) vs TIME (ms)
Max: 14.1 G's
Tmax: 98.0 ms
Min: -31.1 G's
Tmin: 77.6 ms
CFC 60

LEFT BRAKE CALIPER X Velocity (kph) vs TIME (ms)
Max: 39.8 kph
Tmax: 5.3 ms
Min: -7.0 kph
Tmin: 270.2 ms
CFC 180

RIGHT BRAKE CALIPER X (G's) vs TIME (ms)
Max: 8.3 G's
Tmax: 105.4 ms
Min: -25.0 G's
Tmin: 110.8 ms
CFC 60

RIGHT BRAKE CALIPER X Velocity (kph) vs TIME (ms)
Max: 39.8 kph
Tmax: 8.6 ms
Min: -4.2 kph
Tmin: 235.7 ms
CFC 180
Test Date: 08/06/2007
Speed: 24.7 mph (39.8 km/h)

**INSTRUMENT PANEL X (G's) vs TIME (ms)**
- Max: 1.4 G's
- Tmax: 221.5 ms
- Min: -15.8 G's
- Tmin: 70.0 ms
- CFC 60

**INSTRUMENT PANEL X Velocity (kph) vs TIME (ms)**
- Max: 39.8 kph
- Tmax: 0.0 ms
- Min: -4.6 kph
- Tmin: 208.8 ms
- CFC 180

**TRUNK Z (G's) vs TIME (ms)**
- Max: 11.0 G's
- Tmax: 69.7 ms
- Min: -9.2 G's
- Tmin: 111.0 ms
- CFC 60

**TRUNK Z Velocity (kph) vs TIME (ms)**
- Max: 0.9 kph
- Tmax: 27.7 ms
- Min: -3.8 kph
- Tmin: 118.3 ms
- CFC 180
APPENDIX B

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LOW RISK DEPLOYMENT
2007 Dodge RAM (C70306) (5th P2)

Test Date: 07/24/07
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 185ms

**5TH FEM. DRIVER HEAD X (G's) vs TIME (ms)**
- Max: 21.5 G's
- Tmax: 78.4 ms
- Min: -16.3 G's
- Tmin: 10.4 ms
- CFC 1000

**5TH FEM. DRIVER HEAD Y (G's) vs TIME (ms)**
- Max: 3.5 G's
- Tmax: 75.7 ms
- Min: -2.5 G's
- Tmin: 7.3 ms
- CFC 1000

**5TH FEM. DRIVER HEAD Z (G's) vs TIME (ms)**
- Max: 25.8 G's
- Tmax: 10.3 ms
- Min: -6.7 G's
- Tmin: 7.2 ms
- CFC 1000

**5TH FEM. DRIVER HEAD Resultant (G's) vs TIME (ms)**
- Max: 30.5 G's
- Tmax: 10.3 ms
- Min: 0.0 G's
- Tmin: 0.1 ms
- CFC 1000
LOW RISK DEPLOYMENT
2007 Dodge RAM (C70306) (5th P2)

Test Date: 07/24/07
Speed: 0.0 mph (0.0 km/h)

5TH FEM. DRIVER HEAD X Velocity (kph) vs TIME (ms)
Max: 0.1 kph
Tmax: 7.8 ms
Min: -12.0 kph
Tmin: 68.9 ms
CFC 180

5TH FEM. DRIVER HEAD Y Velocity (kph) vs TIME (ms)
Max: 1.0 kph
Tmax: 86.3 ms
Min: -0.2 kph
Tmin: 61.9 ms
CFC 180

5TH FEM. DRIVER HEAD Z Velocity (kph) vs TIME (ms)
Max: 8.8 kph
Tmax: 185.0 ms
Min: -0.1 kph
Tmin: 7.5 ms
CFC 180
LOW RISK DEPLOYMENT
2007 Dodge RAM (C70306) (5th P2)

Test Date: 07/24/07
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 185ms

5TH FEM. DRIVER NECK FX (N) vs TIME (ms)
Max: 47.6 N
Tmax: 81.7 ms
Min: -428.7 N
Tmin: 20.1 ms
CFC 1000

5TH FEM. DRIVER NECK FY (N) vs TIME (ms)
Max: 33.3 N
Tmax: 81.5 ms
Min: -40.6 N
Tmin: 15.0 ms
CFC 1000

5TH FEM. DRIVER NECK FZ (N) vs TIME (ms)
Max: 886.5 N
Tmax: 9.3 ms
Min: -130.8 N
Tmin: 0.4 ms
CFC 1000

5TH FEM. DRIVER NECK FResultant (N) vs TIME (ms)
Max: 909.6 N
Tmax: 9.3 ms
Min: 2.0 N
Tmin: 2.4 ms
CFC 1000
LOW RISK DEPLOYMENT
2007 Dodge RAM (C70306) (5th P2)

Test Date: 07/24/07
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 185ms

**5TH FEM. DRIVER NECK MX (Nm) vs TIME (ms)**
- Max: 2.8 Nm
- Tmax: 15.4 ms
- Min: -4.0 Nm
- Tmin: 82.1 ms
- CFC 600

**5TH FEM. DRIVER NECK MY (Nm) vs TIME (ms)**
- Max: 23.6 Nm
- Tmax: 47.2 ms
- Min: -29.3 Nm
- Tmin: 16.3 ms
- CFC 600

**5TH FEM. DRIVER NECK MZ (Nm) vs TIME (ms)**
- Max: 2.6 Nm
- Tmax: 93.6 ms
- Min: -2.2 Nm
- Tmin: 36.2 ms
- CFC 600

**Drv. Occipital Condyle Moment (Nm) vs TIME (ms)**
- Max: 24.8 Nm
- Tmax: 46.6 ms
- Min: -22.3 Nm
- Tmin: 16.5 ms
- CFC 600
Injury Values Calculated between 0ms and 185ms

5TH FEM. DRIVER CHEST X (G's) vs TIME (ms)
Max: 3.7 G's
Tmax: 5.3 ms
Min: -31.7 G's
Tmin: 9.8 ms
CFC 180

5TH FEM. DRIVER CHEST Y (G's) vs TIME (ms)
Max: 2.9 G's
Tmax: 20.0 ms
Min: -2.3 G's
Tmin: 10.1 ms
CFC 180

5TH FEM. DRIVER CHEST Z (G's) vs TIME (ms)
Max: 9.2 G's
Tmax: 10.1 ms
Min: -1.8 G's
Tmin: 7.7 ms
CFC 180

5TH FEM. DRIVER CHEST Resultant (G's) vs TIME (ms)
Max: 33.0 G's
Tmax: 9.8 ms
Min: 0.0 G's
Tmin: 0.1 ms
CFC 180
LOW RISK DEPLOYMENT
2007 Dodge RAM (C70306) (5th P2)

Test Date: 07/24/07
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 185ms

**5TH FEM. DRIVER CHEST X Velocity (kph) vs TIME (ms)**
- Max: 0.1 kph
- Tmax: 5.9 ms
- Min: -7.9 kph
- Tmin: 31.4 ms
- CFC 180

**5TH FEM. DRIVER CHEST Y Velocity (kph) vs TIME (ms)**
- Max: 0.5 kph
- Tmax: 42.4 ms
- Min: -0.2 kph
- Tmin: 12.4 ms
- CFC 180

**5TH FEM. DRIVER CHEST Z Velocity (kph) vs TIME (ms)**
- Max: 5.9 kph
- Tmax: 166.0 ms
- Min: -0.0 kph
- Tmin: 8.4 ms
- CFC 180

**5TH FEM. DRIVER CHEST DISPLACEMENT (mm) vs TIME (ms)**
- Max: 0.4 mm
- Tmax: 0.7 ms
- Min: -22.5 mm
- Tmin: 12.2 ms
- CFC 600
LOW RISK DEPLOYMENT
2007 Dodge RAM (C70306) (5th P2)

Test Date: 07/24/07
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 185ms

**5TH FEM. DRIVER LEFT FEMUR (N) vs TIME (ms)**
- Max: 235.8 N
- Tmax: 12.3 ms
- Min: -27.8 N
- Tmin: 7.2 ms
- CFC 600

**5TH FEM. DRIVER RIGHT FEMUR (N) vs TIME (ms)**
- Max: 238.7 N
- Tmax: 13.5 ms
- Min: -20.8 N
- Tmin: 7.2 ms
- CFC 600
LOW RISK DEPLOYMENT
2007 Dodge RAM (C70306) (5th P2)

Test Date: 07/24/07
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 185ms

FIRE VOLTAGE #1 (Volts) vs TIME (ms)
Max: 15.5 Volts
Tmax: 0.2 ms
Min: -0.4 Volts
Tmin: 16.1 ms
CFC 1000

FIRE CURRENT #1 (Amps) vs TIME (ms)
Max: 18.3 Amps
Tmax: 0.5 ms
Min: -0.0 Amps
Tmin: 42.3 ms
CFC 1000

FIRE VOLTAGE #2 (Volts) vs TIME (ms)
Max: 16.4 Volts
Tmax: 60.3 ms
Min: -0.9 Volts
Tmin: 70.3 ms
CFC 1000

FIRE CURRENT #2 (Amps) vs TIME (ms)
Max: 2.7 Amps
Tmax: 60.2 ms
Min: -0.1 Amps
Tmin: 59.7 ms
CFC 1000
LOW RISK DEPLOYMENT
2007 Dodge RAM (C70306) (5th P2)

Test Date: 07/24/07
Speed: 0.0 mph (0.0 km/h)

Low Risk Deployment Test Report

Graph 1: Dvr. nij (NTF) () vs TIME SPECIAL CHS (ms)
- Max: 0.1
- Tmax: 77.4 ms
- Min: 0.0
- Tmin: 0.1 ms

Graph 2: Dvr. nij (NTE) () vs TIME SPECIAL CHS (ms)
- Max: 0.4
- Tmax: 14.3 ms
- Min: 0.0
- Tmin: 0.1 ms

Graph 3: Dvr. nij (NCF) () vs TIME SPECIAL CHS (ms)
- Max: 0.2
- Tmax: 48.2 ms
- Min: 0.0
- Tmin: 0.6 ms

Graph 4: Dvr. nij (NCE) () vs TIME SPECIAL CHS (ms)
- Max: 0.1
- Tmax: 175.7 ms
- Min: 0.0
- Tmin: 0.1 ms
LOW RISK DEPLOYMENT
2007 Dodge RAM (C70306) (12 month Century Encore)

Test Date: 07/24/07
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 135ms

### PASSENGER HEAD X (G's) vs TIME (ms)
- Max: 52.2 G's
- Tmax: 22.9 ms
- Min: -13.6 G's
- Tmin: 83.5 ms
- CFC 1000

### PASSENGER HEAD Y (G's) vs TIME (ms)
- Max: 23.8 G's
- Tmax: 23.4 ms
- Min: -22.3 G's
- Tmin: 40.7 ms
- CFC 1000

### PASSENGER HEAD Z (G's) vs TIME (ms)
- Max: 7.5 G's
- Tmax: 40.7 ms
- Min: -23.4 G's
- Tmin: 22.9 ms
- CFC 1000

### PASSENGER HEAD Resultant (G's) vs TIME (ms)
- Max: 58.6 G's
- Tmax: 22.9 ms
- Min: 0.0 G's
- Tmin: 2.8 ms
- CFC 1000
LOW RISK DEPLOYMENT
2007 Dodge RAM (C70306) (12 month Century Encore)
Test Date: 07/24/07
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 135ms

PASSENGER HEAD X Velocity (kph) vs TIME (ms)
Max: 16.6 kph
Tmax: 56.3 ms
Min: -0.0 kph
Tmin: 0.1 ms
CFC 180

PASSENGER HEAD Y Velocity (kph) vs TIME (ms)
Max: 2.9 kph
Tmax: 58.3 ms
Min: -0.6 kph
Tmin: 135.0 ms
CFC 180

PASSENGER HEAD Z Velocity (kph) vs TIME (ms)
Max: 8.1 kph
Tmax: 135.0 ms
Min: -3.1 kph
Tmin: 30.4 ms
CFC 180
Injury Values Calculated between 0ms and 135ms

**PASSENGER NECK FX (N) vs TIME (ms)**
- Max: 160.9 N
- Tmax: 26.8 ms
- Min: -79.3 N
- Tmin: 86.4 ms
- CFC 1000

**PASSENGER NECK FY (N) vs TIME (ms)**
- Max: 36.4 N
- Tmax: 22.9 ms
- Min: -36.5 N
- Tmin: 123.2 ms
- CFC 1000

**PASSENGER NECK FZ (N) vs TIME (ms)**
- Max: 199.4 N
- Tmax: 43.0 ms
- Min: -65.7 N
- Tmin: 60.3 ms
- CFC 1000

**PASSENGER NECK FResultant (N) vs TIME (ms)**
- Max: 203.7 N
- Tmax: 43.0 ms
- Min: 0.6 N
- Tmin: 2.9 ms
- CFC 1000
LOW RISK DEPLOYMENT
2007 Dodge RAM (C70306) (12 month Century Encore)

Test Date: 07/24/07
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 135ms

**PASSENGER NECK MX (Nm) vs TIME (ms)**
- Max: 0.9 Nm
- Tmax: 61.8 ms
- Min: -1.6 Nm
- Tmin: 28.9 ms
- CFC 600

**PASSENGER NECK MY (Nm) vs TIME (ms)**
- Max: 8.3 Nm
- Tmax: 27.0 ms
- Min: -2.2 Nm
- Tmin: 43.3 ms
- CFC 600

**PASSENGER NECK MZ (Nm) vs TIME (ms)**
- Max: 1.4 Nm
- Tmax: 43.8 ms
- Min: -0.7 Nm
- Tmin: 135.0 ms
- CFC 600

**Pass. Occipital Condyle Moment (Nm) vs TIME (ms)**
- Max: 7.4 Nm
- Tmax: 27.6 ms
- Min: -2.1 Nm
- Tmin: 43.3 ms
- CFC 600
LOW RISK DEPLOYMENT
2007 Dodge RAM (C70306) (12 month Century Encore)

Test Date: 07/24/07
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 135ms

PASSENGER CHEST X (G's) vs TIME (ms)
- Max: 26.3 G's
- Tmax: 23.7 ms
- Min: -3.8 G's
- Tmin: 82.3 ms
- CFC 180

PASSENGER CHEST Y (G's) vs TIME (ms)
- Max: 7.6 G's
- Tmax: 26.6 ms
- Min: -1.5 G's
- Tmin: 98.1 ms
- CFC 180

PASSENGER CHEST Z (G's) vs TIME (ms)
- Max: 6.0 G's
- Tmax: 32.3 ms
- Min: -13.8 G's
- Tmin: 23.6 ms
- CFC 180

PASSENGER CHEST Resultant (G's) vs TIME (ms)
- Max: 29.8 G's
- Tmax: 23.7 ms
- Min: 0.0 G's
- Tmin: 0.5 ms
- CFC 180
LOW RISK DEPLOYMENT
2007 Dodge RAM (C70306) (12 month Century Encore)
Test Date: 07/24/07
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 135ms

**PASSENGER CHEST X Velocity (kph) vs TIME (ms)**
- Max: 11.1 kph
- Tmax: 49.8 ms
- Min: -0.0 kph
- Tmin: 2.8 ms
- CFC 180

**PASSENGER CHEST Y Velocity (kph) vs TIME (ms)**
- Max: 2.2 kph
- Tmax: 64.1 ms
- Min: -0.1 kph
- Tmin: 20.3 ms
- CFC 180

**PASSENGER CHEST Z Velocity (kph) vs TIME (ms)**
- Max: 2.6 kph
- Tmax: 135.0 ms
- Min: -3.2 kph
- Tmin: 69.2 ms
- CFC 180
LOW RISK DEPLOYMENT
2007 Dodge RAM (C70306) (12 month Century Encore)
Test Date: 07/24/07
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 135ms

**FIRE VOLTAGE #1 (Volts) vs TIME (ms)**
- Max: 16.5 Volts
- Tmax: 0.3 ms
- Min: -1.2 Volts
- Tmin: 10.3 ms

**FIRE CURRENT #1 (Amps) vs TIME (ms)**
- Max: 2.6 Amps
- Tmax: 0.2 ms
- Min: -0.0 Amps
- Tmin: 10.3 ms

**FIRE VOLTAGE #2 (Volts) vs TIME (ms)**
- Max: 16.5 Volts
- Tmax: 10.3 ms
- Min: -1.2 Volts
- Tmin: 20.3 ms

**FIRE CURRENT #2 (Amps) vs TIME (ms)**
- Max: 2.7 Amps
- Tmax: 10.3 ms
- Min: -0.1 Amps
- Tmin: 9.8 ms
LOW RISK DEPLOYMENT
2007 Dodge RAM (C70306) (12 month Century Encore)  
Test Date: 07/24/07  
Speed: 0.0 mph (0.0 km/h)

PASS. nij (NTF) () vs TIME SPECIAL CHS (ms)

Max: 0.2
Tmax: 29.1 ms
Min: 0.0
Tmin: 1.4 ms
CFC 600

Pass. nij (NTE) () vs TIME SPECIAL CHS (ms)

Max: 0.3
Tmax: 43.2 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Pass. nij (NCF) () vs TIME SPECIAL CHS (ms)

Max: 0.2
Tmax: 26.3 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Pass. nij (NCE) () vs TIME SPECIAL CHS (ms)

Max: 0.1
Tmax: 59.7 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600
LOW RISK DEPLOYMENT
2007 Dodge RAM (C70306) (12 month Evenflo Medallion)

Test Date: 07/24/07
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 135ms

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

Max: 41.1 G's
Tmax: 21.3 ms
Min: -31.5 G's
Tmin: 130.9 ms
CFC 1000

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

Max: 30.7 G's
Tmax: 41.2 ms
Min: -25.6 G's
Tmin: 21.7 ms
CFC 1000

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

Max: 50.3 G's
Tmax: 130.6 ms
Min: -24.9 G's
Tmin: 131.0 ms
CFC 1000

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

Max: 63.5 G's
Tmax: 130.6 ms
Min: 0.1 G's
Tmin: 6.9 ms
CFC 1000
LOW RISK DEPLOYMENT
2007 Dodge RAM (C70306) (12 month Evenflo Medallion)

Test Date: 07/24/07
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 135ms

**PASSENGER HEAD X Velocity (kph) vs TIME (ms)**
- Max: 19.1 kph
- Tmax: 53.3 ms
- Min: -0.0 kph
- Tmin: 3.0 ms
- CFC 180

**PASSENGER HEAD Y Velocity (kph) vs TIME (ms)**
- Max: 0.6 kph
- Tmax: 46.0 ms
- Min: -2.4 kph
- Tmin: 135.0 ms
- CFC 180

**PASSENGER HEAD Z Velocity (kph) vs TIME (ms)**
- Max: 9.2 kph
- Tmax: 135.0 ms
- Min: -2.5 kph
- Tmin: 69.1 ms
- CFC 180
LOW RISK DEPLOYMENT
2007 Dodge RAM (C70306) (12 month Evenflo Medallion)
Test Date: 07/24/07
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 135ms

**PASSENGER NECK FX (N) vs TIME (ms)**
- Max: 95.7 N
- Tmax: 25.6 ms
- Min: -116.7 N
- Tmin: 92.8 ms
- CFC 1000

**PASSENGER NECK FY (N) vs TIME (ms)**
- Max: 43.2 N
- Tmax: 21.4 ms
- Min: -62.7 N
- Tmin: 0.8 ms
- CFC 1000

**PASSENGER NECK FZ (N) vs TIME (ms)**
- Max: 297.3 N
- Tmax: 88.5 ms
- Min: -47.9 N
- Tmin: 30.7 ms
- CFC 1000

**PASSENGER NECK FResultant (N) vs TIME (ms)**
- Max: 314.8 N
- Tmax: 88.5 ms
- Min: 1.7 N
- Tmin: 0.2 ms
- CFC 1000
LOW RISK DEPLOYMENT
2007 Dodge RAM (C70306) (12 month Evenflo Medallion)
Test Date: 07/24/07
Speed: 0.0 mph ( 0.0 km/h)

Injury Values Calculated between 0ms and 135ms

Passenger Neck MX (Nm) vs TIME (ms)
Max: 0.5 Nm
Tmax: 77.8 ms
Min: -2.4 Nm
Tmin: 105.8 ms
CFC 600

Passenger Neck MY (Nm) vs TIME (ms)
Max: 3.9 Nm
Tmax: 130.7 ms
Min: -2.7 Nm
Tmin: 44.0 ms
CFC 600

Passenger Neck MZ (Nm) vs TIME (ms)
Max: 1.1 Nm
Tmax: 59.8 ms
Min: -0.7 Nm
Tmin: 93.4 ms
CFC 600

Pass. Occipital Condyle Moment (Nm) vs TIME (ms)
Max: 4.0 Nm
Tmax: 130.7 ms
Min: -2.5 Nm
Tmin: 44.0 ms
CFC 600
LOW RISK DEPLOYMENT
2007 Dodge RAM (C70306) (12 month Evenflo Medallion)
Test Date: 07/24/07
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 135ms

**PASSENGER CHEST X (G's) vs TIME (ms)**
- Max: 21.6 G's
- Tmax: 29.9 ms
- Min: -7.5 G's
- Tmin: 93.0 ms
- CFC 180

**PASSENGER CHEST Y (G's) vs TIME (ms)**
- Max: 3.5 G's
- Tmax: 39.9 ms
- Min: -2.3 G's
- Tmin: 92.6 ms
- CFC 180

**PASSENGER CHEST Z (G's) vs TIME (ms)**
- Max: 7.5 G's
- Tmax: 29.3 ms
- Min: -7.3 G's
- Tmin: 65.8 ms
- CFC 180

**PASSENGER CHEST Resultant (G's) vs TIME (ms)**
- Max: 22.9 G's
- Tmax: 29.8 ms
- Min: 0.0 G's
- Tmin: 3.7 ms
- CFC 180
LOW RISK DEPLOYMENT
2007 Dodge RAM (C70306) (12 month Evenflo Medallion)
Test Date: 07/24/07
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 135ms

**PASSENGER CHEST X Velocity (kph) vs TIME (ms)**
- Max: 13.1 kph
- Tmax: 46.6 ms
- Min: -0.0 kph
- Tmin: 0.1 ms
- CFC 180

**PASSENGER CHEST Y Velocity (kph) vs TIME (ms)**
- Max: 1.8 kph
- Tmax: 69.5 ms
- Min: -0.5 kph
- Tmin: 135.0 ms
- CFC 180

**PASSENGER CHEST Z Velocity (kph) vs TIME (ms)**
- Max: 2.1 kph
- Tmax: 135.0 ms
- Min: -2.8 kph
- Tmin: 72.4 ms
- CFC 180
LOW RISK DEPLOYMENT
2007 Dodge RAM (C70306) (12 month Evenflo Medallion)

Test Date: 07/24/07
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 135ms

FIRE VOLTAGE #1 (Volts) vs TIME (ms)
- Max: 15.9 Volts
- Tmax: 0.3 ms
- Min: -0.3 Volts
- Tmin: 11.6 ms
- CFC 1000

FIRE CURRENT #1 (Amps) vs TIME (ms)
- Max: 18.2 Amps
- Tmax: 0.6 ms
- Min: -1.4 Amps
- Tmin: 11.1 ms
- CFC 1000

FIRE VOLTAGE #2 (Volts) vs TIME (ms)
- Max: 13.3 Volts
- Tmax: 10.3 ms
- Min: -0.6 Volts
- Tmin: 20.3 ms
- CFC 1000

FIRE CURRENT #2 (Amps) vs TIME (ms)
- Max: 19.8 Amps
- Tmax: 10.4 ms
- Min: -0.6 Amps
- Tmin: 11.6 ms
- CFC 1000
LOW RISK DEPLOYMENT
2007 Dodge RAM (C70306) (12 month Evenflo Medallion)
Test Date: 07/24/07
Speed: 0.0 mph (0.0 km/h)

PASS. nij (NTF) () vs TIME SPECIAL CHS (ms)
Max: 0.2
Tmax: 86.7 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Pass. nij (NTE) () vs TIME SPECIAL CHS (ms)
Max: 0.2
Tmax: 90.6 ms
Min: 0.0
Tmin: 0.2 ms
CFC 600

Pass. nij (NCF) () vs TIME SPECIAL CHS (ms)
Max: 0.1
Tmax: 130.7 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Pass. nij (NCE) () vs TIME SPECIAL CHS (ms)
Max: 0.1
Tmax: 58.8 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600
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</tr>
<tr>
<td>54</td>
<td>Pre-Test Passenger Dummy Seat Position</td>
<td>C-54</td>
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<td>Photo No.</td>
<td>Description</td>
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<td>56</td>
<td>Pre-Test Passenger Dummy Feet Position</td>
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<td>57</td>
<td>Post-Test Passenger Dummy Feet Position</td>
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<tr>
<td>58</td>
<td>Pre-Test Passenger Side Knee Bolster View</td>
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<td>59</td>
<td>Post-Test Passenger Side Knee Bolster View</td>
<td>C-59</td>
</tr>
<tr>
<td>60</td>
<td>Post-Test Passenger Dummy Head Contact View (headrest)</td>
<td>C-60</td>
</tr>
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<td>61</td>
<td>Post-Test Passenger Dummy Knee Contact</td>
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<tr>
<td>62</td>
<td>Post-Test Offset Deformable Barrier Left Side View</td>
<td>C-62</td>
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<tr>
<td>63</td>
<td>Post-Test Offset Deformable Barrier Right Side View</td>
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<td>64</td>
<td>Post-Test Offset Deformable Barrier Front View</td>
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<td>65</td>
<td>Post-Test Offset Deformable Barrier Top View</td>
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<td>66</td>
<td>Rollover 90 Degrees</td>
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<td>67</td>
<td>Rollover 180 Degrees</td>
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<td>68</td>
<td>Rollover 270 Degrees</td>
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<tr>
<td>69</td>
<td>Rollover 360 Degrees</td>
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<tr>
<td>70</td>
<td>Temperature Plot</td>
<td>C-70</td>
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</table>
MFD BY DAIMLERCHRYSLER CORPORATION

DATE OF MFR: 3-07

GUWR: 2994 KG (6600 LB)

GAUR FRONT WITH TIRES
1679 KG (3700 LB) P245/70R17 RIMS AT COLD 17X7.0 240 KPA (35 PSI)

GAUR REAR WITH TIRES
1770 KG (3900 LB) P245/70R17 RIMS AT COLD 17X7.0 240 KPA (35 PSI)

THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY AND THEFT PREVENTION STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.

VIN: 1D7HA16K67J583702 TYPE: TRUCK SINGLE X DUAL

MDH: 022610 710AA PHT:PR4 VEHICLE MADE IN U.S.A. TRM:PRD5 4648503

Vehicle Certification Label
## Tire and Loading Information

**Seating Capacity:***
- Total: 3
- Front: 3
- Rear: 0

The combined weight of occupants and cargo should never exceed 825 kg (1819 lb).

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<th>Tire</th>
<th>Front</th>
<th>Rear</th>
<th>Spare</th>
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<tbody>
<tr>
<td>Original Tire Size</td>
<td>P245/70R17</td>
<td>P245/70R17</td>
<td>P245/70R17</td>
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<td>Cold Tire Inflation Pressure</td>
<td>240 kPa, 35 PSI</td>
<td>240 kPa, 35 PSI</td>
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See Owners Manual for additional information.

7J583702

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Tire Placard
Pre-Test Front View of Test Vehicle
Post-Test Front View of Test Vehicle
Post-Test Left Side View of Test Vehicle
Pre-Test Right Side View of Test Vehicle
Post-Test Right Side View of Test Vehicle
Pre-Test Left Front Three-Quarter View of Test Vehicle
Post-Test Left Front Three-Quarter View of Test Vehicle
Pre-Test Right Rear Three-Quarter View of Test Vehicle
Post-Test Right Rear Three-Quarter View of Test Vehicle
Post-Test Left Rear Three-Quarter View of Test Vehicle
Post-Test Rear View of Test Vehicle
Post-Test Windshield View
Pre-Test Fuel Filler Cap View
Post-Test Fuel Filler Cap View
Pre-Test Front Underbody View
Post-Test Front Underbody View
Post-Test Mid Underbody View
Post-Test Fuel Tank View
Pre-Test Rear Underbody View
Post-Test Rear Underbody View
Pre-Test Driver Dummy Front View (head position)
Post-Test Driver Dummy Front View (head position)
Post-Test Driver Dummy Position Left Side View
Post-Test Driver Dummy Position Left Side View (Door Open)
Post-Test Driver Dummy Seat Position
Pre-Test Driver Dummy Feet Position
Post-Test Driver Dummy Feet Position
Pre-Test Driver Side Knee Bolster View
Post-Test Driver Side Knee Bolster View
Post-Test Driver Dummy Head Contact (headrest)
Post-Test Driver Dummy Head Contact (steering wheel)
Post-Test Driver Dummy Knee Contact (left side)
Post-Test Driver Dummy Knee Contact (right side)
Pre-Test Passenger Dummy Front View (head position)
Post-Test Passenger Dummy Front View (head position)
Pre-Test Passenger Dummy Position Right Side View
Post-Test Passenger Dummy Position Right Side View (Door Open)
Pre-Test Passenger Dummy Seat Position
Post-Test Passenger Dummy Seat Position
Pre-Test Passenger Dummy Feet Position
Post-Test Passenger Dummy Feet Position
Pre-Test Passenger Side Knee Bolster View
Post-Test Passenger Side Knee Bolster View
Post-Test Passenger Dummy Head Contact View (headrest)
Post-Test Offset Deformable Barrier Left Side View
Post-Test Offset Deformable Barrier Right Side View
Rollover 180 Degrees
Rollover 360 Degrees
# TABLE OF PHOTOGRAPHS

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<tr>
<th>Photo No.</th>
<th>Description</th>
<th>Page No.</th>
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<tbody>
<tr>
<td>1</td>
<td>Pre-Test 5&lt;sup&gt;th&lt;/sup&gt; Fem. P2 Driver Dummy Left Side View</td>
<td>D-1</td>
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<tr>
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<td>Post-Test 5&lt;sup&gt;th&lt;/sup&gt; Fem. P2 Driver Dummy Left Side View</td>
<td>D-2</td>
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<tr>
<td>3</td>
<td>Pre-Test 5&lt;sup&gt;th&lt;/sup&gt; Fem. P2 Driver Dummy Right Side View</td>
<td>D-3</td>
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<td>4</td>
<td>Post-Test 5&lt;sup&gt;th&lt;/sup&gt; Fem. P2 Driver Dummy Right Side View</td>
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<td>Post-Test 5&lt;sup&gt;th&lt;/sup&gt; Fem. P2 Driver Dummy Airbag Left View</td>
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<td>7</td>
<td>Post-Test 5&lt;sup&gt;th&lt;/sup&gt; Fem. P2 Driver Dummy Head Contact (headrest)</td>
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<td>Post-Test 5&lt;sup&gt;th&lt;/sup&gt; Fem. P2 Driver Dummy Head Contact (visor)</td>
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<td>9</td>
<td>Pre-Test 12 Mo Pass. Dummy Right Side View (Century Encore)</td>
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<td>10</td>
<td>Post-Test 12 Mo Pass. Dummy Right Side View (Century Encore)</td>
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<tr>
<td>11</td>
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<td>12</td>
<td>Post-Test 12 Mo Pass. Dummy Left Side View (Century Encore)</td>
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<td>13</td>
<td>Pre-Test 12 Mo Pass. Dummy Right Side View (Evenflo Medallion)</td>
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<td>14</td>
<td>Post-Test 12 Mo Pass. Dummy Right Side View (Evenflo Medallion)</td>
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<td>15</td>
<td>Pre-Test 12 Mo Pass. Dummy Left Side View (Evenflo Medallion)</td>
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<td>16</td>
<td>Post-Test 12 Mo Pass. Dummy Left Side View (Evenflo Medallion)</td>
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<td>17</td>
<td>Passenger Geometric Center (2007 Dodge Ram)</td>
<td>D-17</td>
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</table>
Pre-Test 5th Fem. P2 Driver Dummy Right Side View
Post-Test 5th Fem. P2 Driver Dummy Airbag Left View
Post-Test 5th Fem. P2 Driver Dummy Airbag Right View
Post-Test 5th Fem. P2 Driver Dummy Head Contact (headrest)
Post-Test 5th Fem. P2 Driver Dummy Head Contact (visor)
Pre-Test 12 Mo Pass. Dummy Right Side View (Century Encore)
Post-Test 12 Mo Pass. Dummy Right Side View (Century Encore)
Pre-Test 12 Mo Pass. Dummy Left Side View (Evenflo Medallion)
Post-Test 12 Mo Pass. Dummy Left Side View (Evenflo Medallion)
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.
APPENDIX E

INSTRUMENTATION CALIBRATION
### INSTRUMENTS FOR DRIVER DUMMY NO. 506

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Serial No.</th>
<th>Manufacturer</th>
<th>Calibration Date</th>
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<tbody>
<tr>
<td>Head X</td>
<td>P47891</td>
<td>Endevco</td>
<td>03/12/07</td>
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<tr>
<td>Head Y</td>
<td>P47892</td>
<td>Endevco</td>
<td>03/12/07</td>
</tr>
<tr>
<td>Head Z</td>
<td>P47893</td>
<td>Endevco</td>
<td>03/12/07</td>
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<tr>
<td>Neck Load Cell</td>
<td>1562</td>
<td>Denton</td>
<td>06/28/07</td>
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<tr>
<td>Chest X</td>
<td>P47888</td>
<td>Endevco</td>
<td>03/12/07</td>
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<td>Chest Y</td>
<td>P47889</td>
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<td>Chest Z</td>
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<td>Chest Displacement</td>
<td>506</td>
<td>Servo</td>
<td>03/15/07</td>
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<td>Left Femur Load Cell</td>
<td>9428</td>
<td>FTSS</td>
<td>04/26/07</td>
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<td>Neck Load Cell</td>
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<tr>
<td>Left Femur Load Cell</td>
<td>959</td>
<td>FTSS</td>
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### INSTRUMENTS FOR LOW RISK 5TH FEMALE DUMMY NO. 510 (P2)

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### INSTRUMENTS FOR LOW RISK 12 MONTH OLD DUMMY NO. 082
(CENTURY ENCORE AND EVENFLO MEDALLION)

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<td>Head Y</td>
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<td>Head Z</td>
<td>C24-A03</td>
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<td>Neck Load Cell</td>
<td>202</td>
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<td>Chest X</td>
<td>A12-Z15</td>
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<td>Chest Y</td>
<td>J23-M03</td>
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<td>Chest Z</td>
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### VEHICLE INSTRUMENTS

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<td>Right Rear Seat Crossmember X</td>
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<td>Top of Engine X</td>
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<td>Endevco</td>
<td>05/14/07</td>
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<tr>
<td>Bottom of Engine X</td>
<td>J17709</td>
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<td>05/14/07</td>
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