REPORT NUMBER: 208-MGA-2005-006

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

General Motors Corporation
2005 Chevrolet Trailblazer MPV
NHTSA No.: C50106

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

Test Dates: April 15, 2005 – June 6, 2005
Final Report Date: August 18, 2005

FINAL REPORT

PREPARED FOR:
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
OFFICE OF ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
MAIL CODE: NVS-220
400 SEVENTH STREET, SW, ROOM 6115
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:  

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Date:  August 18, 2005

Reviewed by:  

David Winkelbauer, Facility Director  
Date:  August 18, 2005

FINAL REPORT ACCEPTED BY OVSC:

Accepted By:  

________________________________________

Acceptance Date:  

________________________________________
### Abstract

Compliance tests were conducted on the subject 2005 Chevrolet Trailblazer in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP208-12 for the determination of FMVSS 208 compliance. Test failures identified were as follows:

**TEST FAILURES:** None

### Key Words

- Frontal Impact
- 40 kmph Vehicle Safety Compliance Testing
- FMVSS 208, “Occupant Crash Protection”
- FMVSS 212, “Windshield Mounting”
- FMVSS 219, (partial), “Windshield Zone Intrusion”
- FMVSS 301, “Fuel System Integrity”
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SECTION 1
PURPOSE OF COMPLIANCE TEST

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 2005 Chevrolet Trailblazer, NHTSA No. C50106, meets certain performance requirements of FMVSS 208, "Occupant Crash Protection"; FMVSS 212, "Windshield Mounting"; FMVSS 219, "Windshield Zone Intrusion"; and FMVSS 301, "Fuel System Integrity". The compliance test was conducted in accordance with OVSC Laboratory Test Procedure No. TP208-12 dated January 14, 2003.
SECTION 2
TESTS PERFORMED

Test Vehicle: 2005 Chevrolet Trailblazer
Test Program: FMVSS 208 Compliance
NHTSA No.: C50106
Test Dates: 4/15/-6/6/05

The following checked items indicate the tests that were performed:

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

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

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

21. Sled Test: unbelted 50th male dummy driver and passenger (S13)
22. FMVSS 204 Indicant Test
23. FMVSS 212 Indicant Test
24. FMVSS 219 Indicant Test
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 all of the performance requirements to which it was tested.
## SECTION 3

### INJURY RESULT SUMMARY FOR FMVSS 208 TESTS

**Test Vehicle:** 2005 Chevrolet Trailblazer  
**NHTSA No.:** C50106  
**Test Program:** FMVSS 208 Compliance  
**Test Date:** 4/27/05

#### 5th Percentile Female Low Risk Deployments

<table>
<thead>
<tr>
<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Measured Value</th>
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</thead>
<tbody>
<tr>
<td>HIC15</td>
<td>700</td>
<td>2</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>81.0</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>11.5</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>3.1</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>36.6</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2070 N</td>
<td>192</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>47</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>7</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>3</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>18</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>25</td>
</tr>
</tbody>
</table>

Second stage not fired; Injuries calculated on 0 ms to 125 ms

---

<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>8</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.3</td>
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<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>12.7</td>
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<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>28.4</td>
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<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>180.4</td>
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<tr>
<td>Peak Nij (Ncf)</td>
<td>1.0</td>
<td>0.1</td>
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<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>52.4</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2070 N</td>
<td>652</td>
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<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>42</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>32</td>
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<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>14</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>25</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>11</td>
</tr>
</tbody>
</table>

Second stage fire time of 100 ms; Injuries calculated on 0 ms to 225 ms
INJURY RESULT SUMMARY FOR FMVSS 208 TESTS

Test Vehicle: 2005 Chevrolet Trailblazer
Test Program: FMVSS 208 Compliance
NHTSA No.: C50106
Test Date: 6/6/05

40 kmph Frontal Crash

Impact Angle: Zero degrees

Belted Dummies: _X_ Yes __ 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: 2237.5 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

<table>
<thead>
<tr>
<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Driver</th>
<th>Passenger</th>
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</thead>
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<tr>
<td>HIC15</td>
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<td>65</td>
<td>187</td>
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<tr>
<td>N_{le}</td>
<td>1.0</td>
<td>0.3</td>
<td>0.8</td>
</tr>
<tr>
<td>N_{tf}</td>
<td>1.0</td>
<td>0.3</td>
<td>0.3</td>
</tr>
<tr>
<td>N_{se}</td>
<td>1.0</td>
<td>0.1</td>
<td>0.1</td>
</tr>
<tr>
<td>N_{cf}</td>
<td>1.0</td>
<td>0.1</td>
<td>0.2</td>
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<tr>
<td>Neck Tension</td>
<td>2620 N</td>
<td>943</td>
<td>1773</td>
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<tr>
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<td>2520 N</td>
<td>313</td>
<td>355</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>52</td>
<td>54</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>21</td>
<td>8</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>3786</td>
<td>6049</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>4530</td>
<td>4660</td>
</tr>
</tbody>
</table>
A blanket and visor were not used in the suppression testing because they did not affect the weight sensing system used on the vehicle.

The second stage was not fired on the 5th P1 LRD 4-27-05. Injuries were calculated on a 125 millisecond window.

The test temperature condition for the frontal impact exceeded the temperature window to 75°F during the 16 hour soak time due to an air conditioner failure. This can be seen on the temperature recorder plot. The system was repaired and ambient air temperature was 69°F at the time of test. Dummy temperatures were also verified to be 69°F at the time of test.

Bottom of Engine X was not valid after 40 msec during the frontal impact.

An advanced load cell rigid barrier was used for the test. The details of the barrier are shown below. Plots of the total force of all 9 rows and an overlay plot of the summed force from each row are included in Appendix A. A photograph of the vehicle in relation to the load cell grid is included in Appendix C. The vehicle impacted the barrier 4 mm higher than the initial target.
SECTION 5
TEST DATA SHEETS

Test Vehicle: 2005 Chevrolet Trailblazer
Test Program: FMVSS 208 Compliance
NHTSA No.: C50106
Test Dates: 4/15/-6/6/05
DATA SHEET 1
COTR VEHICLE WORK ORDER

Test Vehicle: 2005 Chevrolet Trailblazer
Test Program: FMVSS 208 Compliance
COTR Signature: Charles R. Case

NHTSA No.: C50106
Test Dates: 4/15/-6/6/05

Test to be performed for this vehicle are checked below:

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

<table>
<thead>
<tr>
<th>Child Restraint</th>
<th>Position 1</th>
<th>Position 2</th>
<th>Position 3</th>
<th>Position 4</th>
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<tbody>
<tr>
<td>Britax Roundabout 161</td>
<td>X Full Rearward</td>
<td>X Mid Position</td>
<td>X Full Forward</td>
<td></td>
</tr>
<tr>
<td>Century Encore 4612</td>
<td>X Full Rearward</td>
<td>X Mid Position</td>
<td>X Full Forward</td>
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<tr>
<td>Century STE 1000 4416</td>
<td>X Full Rearward</td>
<td>X Mid Position</td>
<td>X Full Forward</td>
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<tr>
<td>Cosco Olympian 02803</td>
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<td>X Full Forward</td>
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<tr>
<td>Cosco Touriva 02519</td>
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<tr>
<td>Evenflo Horizon V 425</td>
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<td>X Mid Position</td>
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<tr>
<td>Evenflo Medallion 254</td>
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<td>X Mid Position</td>
<td>X Full Forward</td>
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### Section D

<table>
<thead>
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<th>Position 1</th>
<th>Position 2</th>
<th>Position 3</th>
<th>Position 4</th>
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</thead>
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<td>X Mid Position</td>
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<td>X Full Rearward</td>
<td>X Mid Position</td>
<td>X Full Forward</td>
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</tr>
<tr>
<td>Cosco High Back Booster 02-442</td>
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<td>X Mid Position</td>
<td>X Full Forward</td>
<td></td>
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<td>Evenflo Right Fit 245</td>
<td>X Full Rearward</td>
<td>X Mid Position</td>
<td>X Full Forward</td>
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</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 D

<table>
<thead>
<tr>
<th>Child Restraint</th>
<th>Position 1</th>
<th>Position 2</th>
<th>Position 3</th>
<th>Position 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Britax Roadster 9004</td>
<td>X Full Rearward</td>
<td>X Mid Position</td>
<td>X Full Forward</td>
<td></td>
</tr>
<tr>
<td>Century Next Step 4920</td>
<td>X Full Rearward</td>
<td>X Mid Position</td>
<td>X Full Forward</td>
<td></td>
</tr>
<tr>
<td>Cosco High Back Booster 02-442</td>
<td>X Full Rearward</td>
<td>X Mid Position</td>
<td>X Full Forward</td>
<td></td>
</tr>
<tr>
<td>Evenflo Right Fit 245</td>
<td>X Full Rearward</td>
<td>X Mid Position</td>
<td>X Full Forward</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

<table>
<thead>
<tr>
<th>Test Position</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Sitting on seat with back against seat back (S22.2.2.1)</td>
</tr>
<tr>
<td>X</td>
<td>Sitting on seat with back against reclined seat back (S22.2.2.2)</td>
</tr>
<tr>
<td>X</td>
<td>Sitting on seat with back not against seat back (S22.2.2.3)</td>
</tr>
<tr>
<td>X</td>
<td>Sitting on seat edge, spine vertical, hands by the child’s side (S22.2.2.4)</td>
</tr>
<tr>
<td>X</td>
<td>Standing on seat, facing forward (S22.2.2.5)</td>
</tr>
<tr>
<td>X</td>
<td>Kneeling on seat facing forward (S22.2.2.6)</td>
</tr>
<tr>
<td>X</td>
<td>Kneeling on seat facing rearward (S22.2.2.7)</td>
</tr>
<tr>
<td>X</td>
<td>Lying on seat (S22.2.2.8)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Test Position</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Sitting on seat with back against seat back (S22.2.2.1)</td>
</tr>
<tr>
<td>X</td>
<td>Sitting on seat with back against reclined seat back (S22.2.2.2)</td>
</tr>
<tr>
<td>X</td>
<td>Sitting on seat with back not against seat back (S22.2.2.3)</td>
</tr>
<tr>
<td>X</td>
<td>Sitting on seat edge, spine vertical, hands by the child’s side (S22.2.2.4)</td>
</tr>
<tr>
<td>X</td>
<td>Standing on seat, facing forward (S22.2.2.5)</td>
</tr>
<tr>
<td>X</td>
<td>Kneeling on seat facing forward (S22.2.2.6)</td>
</tr>
<tr>
<td>X</td>
<td>Kneeling on seat facing rearward (S22.2.2.7)</td>
</tr>
<tr>
<td>X</td>
<td>Lying on seat (S22.2.2.8)</td>
</tr>
</tbody>
</table>

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) (S5.1.1.(b)(2))
     - Unbelted 50th male dummy driver and passenger (0 to 48 kmph) (S5.1.2(a) (1))
     - Unbelted 50th male dummy driver (32 to 40 kmph) (S5.1.2.(a)(2) or S5.1.2(b))
     - Unbelted 5th female dummy driver (32 to 40 kmph) (S16.1(b))
     - Unbelted 5th female dummy passenger (32 to 40 kmph) (S16.1(b))
     - Unbelted 5th female dummy driver (32 to 40 kmph) (S16.1(b))

   - 40% Offset 0° Belted 5th male dummy driver and passenger (0 to 40 kmph) (S18.1) – Test Speed:

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

29. FMVSS 204 Indicant Test

30. FMVSS 212 Indicant Test

31. FMVSS 219 Indicant Test

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

Test Vehicle: 2005 Chevrolet Trailblazer  NHTSA No.: C50106
Test Program: FMVSS 208 Compliance  Test Dates: 4/15/-6/6/05

CONTRACT NO.  DTNH22-03-D-11002  Date: 6/18/05
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: 2005 Chevrolet Trailblazer
MANUFACTURE DATE: 08/04
NHTSA NO.  C50106  GVWR: 2518 kg (5550 lbs)
BODY COLOR: Maroon  GAWR (Fr): 1338 kg (2950 lbs)
VIN: 1GNDS13S52128148  GAWR (Rr): 1452 kg (3200 lbs)

ODOMETER READINGS: ARRIVAL (miles): 53  DATE: 3/21/05
COMPLETION (miles): 56  DATE: 6/6/05

PURCHASE PRICE: ($) 22,989
DEALER’S NAME: Jeff Wyler Fleet Dealer Group; 5815 Dixie Hwy; Fairfield, OH 45014

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: 2005 Chevrolet Trailblazer  NHTSA NO. C50106

REMARKS:

Equipment that is no longer on the test vehicle as noted on previous page:
Jack, tools, and rear carpeting

Explanation for equipment removal:
Components removed for instrumentation installation and to meet target weight.

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

RECORDED BY: Audrey Hale  DATE: 6/18/2005
APPROVED BY: David Winkelbauer  DATE: 6/18/2005

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: 2005 Chevrolet Trailblazer  
NHTSA No.: C50106  
Test Program: FMVSS 208 Compliance  
Test Date: 6/6/05  
Test Technician: Nick Kosinski

<table>
<thead>
<tr>
<th>Certification Label</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer:</td>
<td>General Motors Corporation</td>
</tr>
<tr>
<td>Date of Manufacture:</td>
<td>08/04</td>
</tr>
<tr>
<td>VIN:</td>
<td>1GNDS13SX52128148</td>
</tr>
<tr>
<td>Vehicle Certified As (Pass. Car/MPV/Truck/Bus):</td>
<td>MPV</td>
</tr>
<tr>
<td>Front Axle GVWR:</td>
<td>1338 kg (2950 lbs)</td>
</tr>
<tr>
<td>Rear Axle GVWR:</td>
<td>1452 kg (3200 lbs)</td>
</tr>
<tr>
<td>Total GVWR:</td>
<td>2518 kg (5550 lbs)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tire Placard</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable, vehicle is not a passenger car and does not have a tire placard.</td>
<td>YES (MPV)</td>
</tr>
<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 (MPV)</td>
</tr>
<tr>
<td>Vehicle Capacity Weight:</td>
<td>521 kg (1148 lbs)</td>
</tr>
<tr>
<td>Designated Seating Capacity Front:</td>
<td>2</td>
</tr>
<tr>
<td>Designated Seating Capacity Rear:</td>
<td>3</td>
</tr>
<tr>
<td>Total Designated Seating Capacity:</td>
<td>5</td>
</tr>
<tr>
<td>Recommended Cold Tire Inflation Pressure Front:</td>
<td>210 kpa (30 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>P245/65R17</td>
</tr>
</tbody>
</table>

Signature: [Signature]

Date: 6/6/05
DATA SHEET 4
REAR OUTBOARD SEATING POSITION SEAT BELTS

Test Vehicle: 2005 Chevrolet Trailblazer  
Test Program: FMVSS 208 Compliance  
Test Technician: Nick Kosinski

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

Do all rear outboard seating positions have Type 2 seat belts?

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:

Signature: [Signature]

Date: 4/15/05
DATA SHEET 5
AIR BAG LABELS (S4.5.1)

Test Vehicle: 2005 Chevrolet Trailblazer  NHTSA No.: C50106
Test Program: FMVSS 208 Compliance  Test Date: 4/15/05
Test Technician: Nick Kosinski

1. Air bag maintenance label and owner’s manual instructions: (S4.5.1(a))
   1.1 Does the manufacturer recommend periodic maintenance or replacement of the air bag?
      ☑ Yes, go to 1.2
      ☑ No – go to 2

1.2 Does the vehicle have a label specifying air bag maintenance or replacement?
   ☑ Yes – Pass
   ☑ No – Fail

1.3 Does the label contain one of the following?
   ☑ Yes – Pass
   ☑ No – Fail
   Check applicable schedule:
   ____ Schedule on label specifies month and year (Record date______)
   ____ Schedule on label specified vehicle mileage (Record mileage______)
   ____ Schedule on label specifies interval measured from date on certification label
      (Record interval______)

1.4 Is the label permanently affixed within the passenger compartment such that it cannot be removed without destroying or defacing the label or the sunvisor?
   ☑ Yes – Pass
   ☑ No – Fail

1.5 Is the label lettered in English?
   ☑ Yes – Pass
   ☑ No – Fail

1.6 Is the label in block capitals and numerals?
   ☑ Yes – Pass
   ☑ No – Fail

1.7 Are the letters and numerals at least 3/32 inches high?
   ☑ Yes – Pass
   ☑ No – Fail

1.8 Does the owner’s manual set forth the recommended schedule for maintenance or replacement?
   ☑ Yes – Pass
   ☑ No – Fail

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 supplement restraint at the front outboard seating position?
   - Yes – Pass
   - No – Fail

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

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

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

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

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

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

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

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

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

2.7.6 Is the vehicle certified to the requirements of S19.2, S21.2, or 23.2 (automatic suppression)?
   - Yes, continue with 2.7.6
   - No, go to 2.7.7
<table>
<thead>
<tr>
<th>2.7.6.1</th>
<th>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))</th>
</tr>
</thead>
<tbody>
<tr>
<td>✗ Yes – Pass</td>
<td></td>
</tr>
<tr>
<td>✗ No – Fail</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2.7.6.2</th>
<th>Discuss the telltale light, specifying its location in the vehicle and explaining when the light is illuminated?</th>
</tr>
</thead>
<tbody>
<tr>
<td>✗ Yes – Pass</td>
<td></td>
</tr>
<tr>
<td>✗ No – Fail</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2.7.7</th>
<th>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))</th>
</tr>
</thead>
<tbody>
<tr>
<td>✗ Yes – Pass</td>
<td></td>
</tr>
<tr>
<td>✗ No – Fail</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2.7.8</th>
<th>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))</th>
</tr>
</thead>
<tbody>
<tr>
<td>✗ Yes – Pass</td>
<td></td>
</tr>
<tr>
<td>✗ No – Fail</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2.7.9</th>
<th>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))</th>
</tr>
</thead>
<tbody>
<tr>
<td>✗ Yes – Pass</td>
<td></td>
</tr>
<tr>
<td>✗ No – Fail</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3.</th>
<th>Sun Visor Air Bag Warning Label (S4.5.1(b)) Check only one of the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td>✗ The vehicle is not certified to meet the requirements of S19, S21, and S23 (Obtain answer from COTR) (S4.5.1(b)(1)) Go to 3.1 and skip 3.2 and 3.3</td>
<td></td>
</tr>
<tr>
<td>✗ The vehicle is certified to meet the requirements of S19, S21, and S23 before 9/1/03. (Obtain answer from COTR) (S4.5.1(b)(2)) Go to 3.2 and skip 3.1 and 3.3</td>
<td></td>
</tr>
<tr>
<td>✗ The vehicle is certified to meet the requirements of S19, S21, and S23 on 9/1/03 or later. (Obtain answer from COTR) (S4.5.1(b)(3)) Go to 3.3 and skip 3.1 and 3.2</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3.1</th>
<th>Vehicles not certified to meet the requirements of S19, S21, and S23.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>3.1.1</th>
<th>Is the label permanently affixed (including permanent marking on the visor material or molding into the visor material) to either side of the sun visor at each front outboard seating position such that it cannot be removed without destroying or defacing it? (S4.5.1(b)(1))</th>
</tr>
</thead>
<tbody>
<tr>
<td>✗ Driver Side, Yes – Pass</td>
<td></td>
</tr>
<tr>
<td>✗ Driver Side, No – Fail</td>
<td></td>
</tr>
<tr>
<td>✗ Passenger Side, Yes – Pass</td>
<td></td>
</tr>
<tr>
<td>✗ Passenger Side, No – Fail</td>
<td></td>
</tr>
</tbody>
</table>
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>Side</th>
<th>Pass/Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver Side, Yes</td>
<td>Pass</td>
</tr>
<tr>
<td>Driver Side, No</td>
<td>Fail</td>
</tr>
<tr>
<td>Passenger Side, Yes</td>
<td>Pass</td>
</tr>
<tr>
<td>Passenger Side, No</td>
<td>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>Side</th>
<th>Pass/Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver Side, Yes</td>
<td>Pass</td>
</tr>
<tr>
<td>Driver Side, No</td>
<td>Fail</td>
</tr>
<tr>
<td>Passenger Side, Yes</td>
<td>Pass</td>
</tr>
<tr>
<td>Passenger Side, No</td>
<td>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>Side</th>
<th>Pass/Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver Side, Yes</td>
<td>Pass</td>
</tr>
<tr>
<td>Driver Side, No</td>
<td>Fail</td>
</tr>
<tr>
<td>Passenger Side, Yes</td>
<td>Pass</td>
</tr>
<tr>
<td>Passenger Side, No</td>
<td>Fail</td>
</tr>
</tbody>
</table>
3.1.5 Is the message area at least 30 cm²? (S4.5.1(b)(1)(ii))
Driver Side: Length ____, Width ______
Passenger Side: Length ____, Width ______
Actual message area ____ cm²
Driver Side, Yes – Pass
Driver Side, No – Fail
Passenger Side, Yes – Pass
Passenger Side, No – Fail

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

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

3.2 Vehicles certified to meet the requirements of S19, S21, and S23 before 9/1/03.

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

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

3.2.4 Is the message area white with black text? (S4.5.1(b)(2)(ii))
3.2.5 Is the message area at least 30 cm²? (S4.5.1(b)(2)(ii))
- Driver Side: Length_________, Width_________
- Passenger Side: Length_________, Width_________
Actual message area _____________ cm²
- Driver Side, Yes – Pass
- Driver Side, No – Fail
- Passenger Side, Yes – Pass
- Passenger Side, No – Fail

3.2.6 Is the pictogram black on a white background? (S4.5.1(b)(2)(iii))
- Driver Side, Yes – Pass
- Driver Side, No – Fail
- Passenger Side, Yes – Pass
- Passenger Side, No – Fail

3.2.7 Is the pictogram at least 30 mm (1.2 inches) in length? (S4.5.1(b)(2)(iii))
- Driver Side: Length_________
- Passenger Side: Length_________
- Driver Side, Yes – Pass
- Driver Side, No – Fail
- Passenger Side, Yes – Pass
- Passenger Side, No – Fail

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

3.3.1 Is the label permanently affixed (including permanent marking on the visor material or molding into the visor material) to either side of the sun visor at each front outboard seating position such that it cannot be removed without destroying or defacing the label or the sun visor? (S4.5.1(b)(3))
- Driver Side, Yes – Pass
- Driver Side, No – Fail
- Passenger Side, Yes – Pass
- Passenger Side, No – Fail
3.3.2 Does the label conform in content to the label shown in either Figure 11 at each front outboard seating position? (S4.5.1(b)(2)) (Vehicles without back seats may omit the statement: “The back seat is the safest place for children.” (S4.5.1(b)(3)(iv)) Vehicles without back seats or the back seat is too small to accommodate a rear-facing child restraint may omit the statement “Never put a rear-facing child seat in the front.” (S4.5.1(b)(3)(v))

![Image of warning label]

Figure 11. See VSAc Label Visible when Visor is in Down Position.

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

3.3.3 Is the label heading area yellow with the word “WARNING” and the alert symbol in black? (S4.5.1(b)(3)(i))

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

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

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

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

- **Driver Side**: Length 13 cm, Width 4 cm
- **Passenger Side**: Length 13 cm, Width 4 cm
- Driver Actual message area 52 cm²
- Passenger Actual message area 52 cm²

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

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

- **Driver Side**, Yes – Pass
- **Driver Side**, No – Fail
- **Passenger Side**, Yes – Pass
- **Passenger Side**, No – Fail
3.3.7 Is the pictogram at least 30 mm (1.2 inches) in length? (S4.5.1(b)(3)(iii))

- Driver Side: Length 33 mm
- Passenger Side: Length 33 mm
  - Driver Side, Yes – Pass
  - Driver Side, No – Fail
  - Passenger Side, Yes – Pass
  - Passenger Side, No – Fail

3.4 Is the same side of the sun visor that contains the air bag warning label free of other information with the exception of the air bag maintenance label and/or the rollover-warning label? (S4.5.1(b)(5)(i))

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

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

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

3.6 Does the driver side visor contain a rollover-warning label on the same side of the visor as the air bag warning label?

  - Yes, go to 3.6.1
  - No, go to 4 (skipping 3.6.1 through 3.6.3)

3.6.1 Are both the rollover-warning label and the air bag warning label surrounded by a continuous solid-lined border?

  - Yes, go to 3.6.2 and skip 3.6.3
  - No, go to 3.6.3 and skip 3.6.2

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

  - Actual distance

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

  - Actual distance

  - Yes-Pass
  - No-FAIL

4. Air Bag Alert Label (S4.5.1(c) (A “Rollover Warning Label” or “Rollover Alert Label” may be on the same side of the driver’s sun visor as the “Air Bag Alert Label.” 575.105(d))
Is the sun visor warning label visible when the sun visor is in the stowed position?

If yes for driver and passenger, go to 5.

Driver Side, Yes
Driver Side, No
Passenger Side, Yes
Passenger Side, No

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))

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

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

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

![Air Bag Warning Label](image)

Figure 6c. Sun Visor Label Visible When Visor is in Up Position.

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

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))

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 __ mm
Passenger Side Diameter __ mm
- Driver Side, Yes – Pass
- Driver Side, No – Fail
- Passenger Side, Yes – Pass
- Passenger Side, No – Fail

5. Label on the Dashboard

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

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

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

- Yes – Pass
- No – Fail

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

- Yes – Pass
- No - Fail
5.1.3 Does the label conform in content to the label shown in Figure 9? (S4.5.1(e)(2))

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

- Yes – Pass
- No – Fail

5.1.4 Is the heading area yellow with black text? (S4.5.1(e)(2)(i))

- Yes – Pass
- No – Fail

5.1.5 Is the message white with black text? (S4.5.1(e)(2)(ii))

- Yes – Pass
- No – Fail

5.1.6 Is the message area at least 30 cm²? (S4.5.1(e)(2)(ii))

- Yes – Pass
- No – Fail

5.2 Does the vehicle have a label on the dash or steering wheel hub? (S4.5.1(e)(1))

- Yes – Pass
- No – Fail

5.2.1 Is the label clearly visible from all front seating positions? (S4.5.1(e)(1))

- Yes – Pass
- No – Fail
5.2.2 Does the label conform in content to the label shown in Figure 7? (S4.5.1(e)(1)(iii))
Vehicles without back seats may omit the statement: “The back seat is the safest place for children.” (S4.5.1(e)(2)(iii))

☐ Yes – Pass
☐ No - Fail

5.2.3 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))

Length ____, Width ______
Actual message area ____ cm²

☐ Yes – Pass
☐ No - Fail

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 4/15/05
DATA SHEET 6  
FMVSS 208 READINESS INDICATOR (S4.5.2)

Test Vehicle: 2005 Chevrolet Trailblazer  
NHTSA No.: C50106  
Test Program: FMVSS 208 Compliance  
Test Date: 4/15/05  
Test Technician: Nick Kosinski

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: Lower left on tachometer

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: [Signatures]

Date: 4/15/05
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(a))
   - Yes, go to 3
   - No, go to 4

3. Verification of the lack of room for a child restraint in the rear seat behind the driver’s seat. (S4.5.4(b))
   3.1 Position the seat’s adjustable lumbar supports to that the lumbar support is in its lowest, retracted or deflated adjustment position (S8.1.3)
      - N/A, no lumbar adjustment

   3.2 Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.02)
      - N/A, no additional support adjustment

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

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

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

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

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

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

   3.9 Using only the controls that change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the middle fore-aft position. (S8.1.2)
      - N/A – the seat does not have fore-aft adjustment.
      - Mid position
If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat:

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

N/A – No adjustments

Angle of reference line as tested:

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

N/A – No seat back angle adjustment

Manufacturers design seat back angle:

Tested seat back angle:

3.12 Is the driver seat a bucket seat?

Yes, go to 3.12.1 and skip 3.12.2

No, go to 3.12.2 and skip 3.12.1

3.12.1 Bucket Seats:

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

Record the width of the seat:

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

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

Distance (mm):

Less than 720 mm – Pass

More than 720 mm – Fail

Go to 4

3.12.2 Bench seats (including split bench seats):

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

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

Distance (mm):

Less than 720 mm – Pass

More 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” (S4.5.4.3(b)) on the telltale?
     7.2.1 Yes – Pass, go to 7.3
     7.2.2 No – go to 7.2.2 within 25 mm of the telltale?
       Measurement from the edge of the telltale light (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 aged 1 to 12:
there is no back seat
space is not always available in the rear seat
there is a medical condition that must be monitored constantly

Medical condition: medical risk causes special risk for passenger
greater risk for harm than with the air bag on

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: 4/15/05
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: 2005 Chevrolet Trailblazer  NHTSA No.: C50106
Test Program: FMVSS 208 Compliance  Test Date: 4/15/05
Test Technician: Nick Kosinski

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 retractors that are not solely automatic locking retractors. (S7.1.1.5(c))

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

Test Vehicle: 2005 Chevrolet Trailblazer  NHTSA No.: C50106
Test Program: FMVSS 208 Compliance  Test Date: 4/15/05
Test Technician: Nick Kosinski
9. Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))

Measured distance between A and B (inches): 72 inches

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

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

Measured force application angle (Spec. 5-15 degrees): 10 degrees

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

Measured distance between A and B (inches): 23 inches

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

Record onset rate (lb/sec) (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5)): 25 lb/sec

Measured distance between A and B (inches) (S7.1.1.5(c)(6)): 23.75 inches

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

13 - 12 = 0.75 inches

Yes – Pass
No – Fail

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

9 - 13 = 48.25 inches

Yes – Pass
No – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 4/15/05
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: 2005 Chevrolet Trailblazer NHTSA No.: C50106
Test Program: FMVSS 208 Compliance Test Date: 4/15/05
Test Technician: Nick Kosinski

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: Left Rear Passenger

1. Record test fore-aft seat position: Not Adjustable (S7.1.1.5(c)(1)) (Any position is acceptable)

2. Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT have to be attached by the vehicle user to the seat belt webbing, retractor, or any other part of the vehicle. (S7.1.1.5 (a))
   Yes – Pass
   No – Fail

3. Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT require inverting, twisting or deforming of the belt webbing. (S7.1.1.5 (a))
   Yes – Pass
   No – Fail

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

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

6. Locate a reference point B on the attachment hardware or retractor assembly at the other end of the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))

7. Does the vehicle user need to take some action to activate the locking feature on the lap belt portion of the seat belt in any forward-facing seat or seat that can be adjusted to forward-facing?
   Yes, go to 7.1
   No, go to 8

7.1 Does the vehicle owner’s manual include a description in words and/or diagrams describing how to activate the locking feature so that the seat belt assembly can tightly secure a child restraint system and how to deactivate the locking feature to remove the child restraint system. (S7.1.1.5(b))
   Yes – Pass
   No – Fail

8. Adjust the lap belt or lap belt portion of the seat belt assembly according to any procedures recommended in the vehicle owner’s manual to activate any locking feature so that the webbing between points A and B is at the maximum length allowed by the belt system. (S7.1.1.5(c)(2) & S7.1.1.5(c)(1))
9. Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))
   Measured distance between A and B (inches): 74.25 inches

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

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

12. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))
   Measured distance between A and B (inches): 24.5 inches

13. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))
   Record onset rate (lb/sec) (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5)): 25 lb/sec
   Measured distance between A and B (inches) (S7.1.1.5(c)(6)): 25.75 inches

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

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

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________
Date: 4/15/05
**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: 2005 Chevrolet Trailblazer  
NHTSA No.: C50106  
Test Program: FMVSS 208 Compliance  
Test Date: 4/15/05  
Test Technician: Nick Kosinski

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

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

Test Vehicle: 2005 Chevrolet Trailblazer  
Test Program: FMVSS 208 Compliance  
Test Technician: Nick Kosinski  
NHTSA No.: C50106  
Test Date: 4/15/05
9. Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))
   Measured distance between A and B (inches): 62.5 inches

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

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

12. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))
   Measured distance between A and B (inches): 21 inches

13. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))
   Record onset rate (lb/sec) (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5)): 25 lb/sec
   Measured distance between A and B (inches) (S7.1.1.5(c)(6)): 21.5 inches

14. Subtract the measurement in 12 from the measurement in 13. Is the difference 2 inches or less? (S7.1.1.5(c)(7))
   Yes – Pass
   No – Fail
   13 - 12 = 0.50 inches

15. Subtract the measurement in 9 from the measurement in 13. Is the difference 3 inches or more? (S7.1.1.5(c)(8))
   Yes – Pass
   No – Fail
   9 - 13 = 41 inches

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

Signature: [Signature]
Date: 4/15/05

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>Test Vehicle:</th>
<th>2005 Chevrolet Trailblazer</th>
<th>NHTSA No.:</th>
<th>C50106</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
<td>Test Date:</td>
<td>4/15/05</td>
</tr>
<tr>
<td>Test Technician:</td>
<td>Nick Kosinski</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

### DESIGNATED SEATING POSITION: Right Rear Passenger

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

   Measured distance between A and B (inches): 73.5 inches

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

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

   Measured force application angle (Spec. 5-15 degrees): 10 degrees

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

   Measured distance between A and B (inches): 26.5 inches

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

   Record onset rate (lb/sec) (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5)): 25 lb/sec

   Measured distance between A and B (inches) (S7.1.1.5(c)(6)): 27.25 inches

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

   13 - 12 = 0.75 inches

   Yes – Pass
   No – Fail

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

   9 - 13 = 46.25 inches

   Yes – Pass
   No – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________

Date:  4/15/05
DATA SHEET 9
FMVSS 208 SEAT BELT WARNING SYSTEM CHECK (S7.3)

Test Vehicle: 2005 Chevrolet Trailblazer  NHTSA No.: C50106
Test Program: FMVSS 208 Compliance  Test Date: 4/15/05
Test Technician: Nick Kosinski

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: 8.0
5. The occupant is in the driver’s seat.
6. The seat belt is in the stowed position.
7. The key is in the “on” or “start” position.
8. The time duration of the warning light beginning with key “on” or “start” is
   Seconds: Stays On
9. The occupant is in the driver’s seat.
10. The seat belt is in the latched position and with at least 4 inches of belt webbing extended.
11. The key is in the “on” or “start” position.
12. The time duration of the audible signal beginning with key “on” or “start” is
    Seconds: 0.0
13. The occupant is in the driver’s seat.
14. The seat belt is in the latched position and with at least 4 inches of belt webbing extended.
15. The key is in the “on” or “start” position.
16. The time duration of the warning light beginning with key “on” or “start” is
    Seconds: 0.0
17. Complete the following table with the data from 4, 8, 12, and 16 to determine which option is used.

<table>
<thead>
<tr>
<th>Warning light specification</th>
<th>Audible signal specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belt latched &amp; key on or start</td>
<td>Item 16: 0.0</td>
</tr>
<tr>
<td>Belt stowed &amp; key on or start</td>
<td>Item 8: Stays On</td>
</tr>
<tr>
<td>Belt latched &amp; key on or start</td>
<td>Item 16: 0.0</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.
** 0 seconds means the light or audible signal are NOT permitted to operate under these conditions.
18. The seat belt warning system meets the requirements of (manufacturers may comply with either section)

- [X] S7.3 (a)(1)
- [ ] S7.3 (a)(2)
- [ ] FAIL – does not meet the requirements of either option

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

- [ ] Fasten seat belts
- [ ] Fasten belts
- [X] Symbol 101
- [ ] FAIL – does not use any of the above working or symbol

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 4/15/05
DATA SHEET 10
BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2005 Chevrolet Trailblazer  
Test Program: FMVSS 208 Compliance  
Test Technician: Nick Kosinski  
NHTSA No.: C50106  
Test Date: 4/15/05

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

**DESIGNATED SEATING POSITION:** Left Front Driver

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

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

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

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

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

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

7. If the seat height is adjustable, set this adjustment to the full down position. (S16.2.10.3.1)
   - [X] N/A, no seat height adjustment

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

9. Using only the controls that change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward.
   - [X] N/A, the seat does not have a fore-aft adjustment
10. Using only the controls that change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the middle fore-aft position for this test. (S8.1.2)
   Mid position
   If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat:

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

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

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

   N/A, no seat back angle adjustment
   Manufacturer’s design seat back angle: 18.5 degrees on seat back frame
   Tested seat back angle: 18.5 degrees on seat back frame

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

14. Fasten the seat belt latch.

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

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

   Contact Force (lb): 0.32
   0.0 to 0.7 pounds – Pass
   Greater than 0.7 pounds – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]
Date: 4/15/05
DATA SHEET 10
BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2005 Chevrolet Trailblazer
Test Program: FMVSS 208 Compliance
Test Technician: Nick Kosinski

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

DESIGNATED SEATING POSITION: Right Front Passenger

1. Does the vehicle incorporate a webbing tension-relieving device?
   - 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. If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S16.2.10.3.1)
   - N/A, no independent fore-aft seat cushion adjustment

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

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

7. If the seat height is adjustable, set this adjustment to the full down position. (S16.2.10.3.1)
   - N/A, the seat does not have a fore-aft adjustment

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

9. Using only the controls that change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward.
   - N/A, the seat does not have a fore-aft adjustment
10. Using only the controls that change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the middle fore-aft position for this test. (S8.1.2) 
   Mid position
   If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat:

11. If seat adjustments other than fore-aft are present and the horizontal reference line is no longer horizontal, use those adjustments to maintain the reference line as closely as possible to the horizontal. (S16.2.10.2.1)
   N/A, no adjustments
   Reference line angle as tested: Zero degrees

12. The seat back angle, if adjustable, is set at the manufacturer’s nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S4.5.4.1 (b) and S8.1.3)
   N/A, no seat back angle adjustment
   Manufacturer’s design seat back angle: 18.5 degrees on seat back frame
   Tested seat back angle: 18.5 degrees on seat back frame

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

14. Fasten the seat belt latch.

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

16. Locate the point where the centerline of the upper torso belt webbing crosses the midsagittal line on the dummy’s chest. At that point pull the belt webbing out 3 inches from the dummy’s chest and release until it is within one inch from the dummy’s chest. (S10.8) Using a force measuring gage with a full scale range of no more than 1.5 pounds, measure the contact force perpendicular to the dummy’s chest exerted by the belt webbing.
   Contact Force (lb): 0.36
   0.0 to 0.7 pounds – Pass
   Greater than 0.7 pounds – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 4/15/05
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 Rear Passenger

1. **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. If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S16.2.10.3.1)
   - N/A, no independent fore-aft seat cushion adjustment
5. If the seat cushion height adjusts independent of the seat back, set this adjustment to the full down position. (S16.2.10.3.1)
   - N/A, no independent seat cushion height adjustment
6. Put the seat in its full rearward position. (S16.2.10.3.1)
   - N/A, the seat does not have a fore-aft adjustment
7. If the seat height is adjustable, set this adjustment to the full down position. (S16.2.10.3.1)
   - N/A, no seat height adjustment
8. Draw a horizontal reference line on the side of the seat cushion.
9. Using only the controls that change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward.
   - N/A, the seat does not have a fore-aft adjustment
10. Using only the controls that change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the middle fore-aft position for this test. (S8.1.2)
   
   If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat:

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

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

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

14. Fasten the seat belt latch.

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

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

   Contact Force (lb): 0.32

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

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 4/15/05
DATA SHEET 10
BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2005 Chevrolet Trailblazer  NHTSA No.: C50106
Test Program: FMVSS 208 Compliance  Test Date: 4/15/05
Test Technician: Nick Kosinski

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

DESIGNATED SEATING POSITION: Center Rear Passenger

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

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

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

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

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

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

7. If the seat height is adjustable, set this adjustment to the full down position. (S16.2.10.3.1)
   X N/A, no seat height adjustment

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

9. Using only the controls that change the seat in the fore-aft direction, mark the fore-aft seat positions. Mark the side of the seat and a reference position directly below on a part of the vehicle that does not adjust. For manual seats, move the seat forward one detent at a time and mark each detent as was done for the full rearward position. For power seats, mark only the full rearward, middle, and full forward positions. Label three of the positions with the following: F for full forward, M for mid-position (if there is no mid position, label the closest adjustment position to the rear of the mid-point), and R for full rearward.
   X N/A, the seat does not have a fore-aft adjustment
10. Using only the controls that change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the middle fore-aft position for this test. (S8.1.2)

| 11. If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat: | N/A, no adjustments |

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

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

14. Fasten the seat belt latch.

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

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

| Contact Force (lb): 0.30 |

REMINDS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 4/15/05
DATA SHEET 10
BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2005 Chevrolet Trailblazer  
NHTSA No.: C50106  
Test Program: FMVSS 208 Compliance  
Test Date: 4/15/05  
Test Technician: Nick Kosinski

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 Rear Passenger</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Does the vehicle incorporate a webbing tension-relieving device?</td>
</tr>
<tr>
<td>☑ Yes, this form is complete</td>
</tr>
<tr>
<td>☑ No, continue with this check sheet</td>
</tr>
<tr>
<td>2. Position the seat’s adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)</td>
</tr>
<tr>
<td>☑ N/A, no lumbar adjustment</td>
</tr>
<tr>
<td>3. Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2)</td>
</tr>
<tr>
<td>☑ N/A, no additional support adjustment</td>
</tr>
<tr>
<td>4. If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S16.2.10.3.1)</td>
</tr>
<tr>
<td>☑ N/A, no independent fore-aft seat cushion adjustment</td>
</tr>
<tr>
<td>5. If the seat cushion height adjusts independent of the seat back, set this adjustment to the full down position. (S16.2.10.3.1)</td>
</tr>
<tr>
<td>☑ N/A, no independent seat cushion height adjustment</td>
</tr>
<tr>
<td>6. Put the seat in its full rearward position. (S16.2.10.3.1)</td>
</tr>
<tr>
<td>☑ N/A, the seat does not have a fore-aft adjustment</td>
</tr>
<tr>
<td>7. If the seat height is adjustable, set this adjustment to the full down position. (S16.2.10.3.1)</td>
</tr>
<tr>
<td>☑ N/A, no seat height adjustment</td>
</tr>
<tr>
<td>8. Draw a horizontal reference line on the side of the seat cushion.</td>
</tr>
<tr>
<td>☑ N/A, the seat does not have a fore-aft adjustment</td>
</tr>
</tbody>
</table>

Test Vehicle: 2005 Chevrolet Trailblazer  
Test Program: FMVSS 208 Compliance  
Test Date: 4/15/05
10. Using only the controls that change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the middle fore-aft position for this test. (S8.1.2)
   Mid position
   If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat:

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

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

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

14. Fasten the seat belt latch.

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

16. Locate the point where the centerline of the upper torso belt webbing crosses the midsagittal line on the dummy’s chest. At that point pull the belt webbing out 3 inches from the dummy’s chest and release until it is within one inch from the dummy’s chest. (S10.8) Using a force measuring gage with a full scale range of no more than 1.5 pounds, measure the contact force perpendicular to the dummy’s chest exerted by the belt webbing.
   Contact Force (lb): 0.32
   0.0 to 0.7 pounds – Pass
   Greater than 0.7 pounds – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 4/15/05
DATA SHEET 11
LATCH PLATE ACCESS (S7.4.4)

Test Vehicle: 2005 Chevrolet Trailblazer
Test Program: FMVSS 208 Compliance
Test Technician: Nick Kosinski
NHTSA No.: C50106
Test Date: 4/15/05

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

DESIGNATED SEATING POSITION: Left Front Driver

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

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

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

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

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

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

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

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

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

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

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

- N/A, no seat back angle adjustment

- Manufacturer’s design seat back angle: 18.5 degrees on seat back frame
- Tested seat back angle: 18.5 degrees on seat back frame

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

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

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

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

16. Place the latch plate in the stowed position.

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

- Yes – Pass
- No

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

- Yes – Pass
- No

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

- Yes – Pass
- No – Fail

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

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

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 4/15/05
DATA SHEET 11
LATCH PLATE ACCESS (S7.4.4)

Test Vehicle: 2005 Chevrolet Trailblazer
Test Program: FMVSS 208 Compliance
Test Technician: Nick Kosinski

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

DESIGNATED SEATING POSITION: Right Front Passenger

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

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

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

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

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

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

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

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

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

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

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

- N/A, no seat back angle adjustment
- Manufacturer’s design seat back angle: 18.5 degrees on seat back frame
- Tested seat back angle: 18.5 degrees on seat back frame

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

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

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

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

16. Place the latch plate in the stowed position.

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

- Yes – Pass
- No

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

- Yes – Pass
- No

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

- Yes – Pass
- No – Fail

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

- Yes – Pass
- No – Fail
Attach the Inboard Reach String (19 3/8" long) at the base of the head on centerline.

Attach the Outboard Reach String (28" long) at this point on the torso sheath.

A—Using flexible tape measure 8" from back centerline 10 1/4" from front centerline to find anchor point below arm pit on torso sheath.

Seat Plane is 90° to the Torso Line

Figure 3. Location of Anchoring Points for Latchplate Reach Limiting Chains or Strings to Test for Latchplate Accessibility Using Subpart E Test Device
REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 4/15/05
DATA SHEET 12
SEAT BELT RETRACTION (S7.4.5)

Test Vehicle: 2005 Chevrolet Trailblazer  
Test Program: FMVSS 208 Compliance  
Test Technician: Nick Kosinski  
NHTSA No.: C50106  
Test Date: 4/15/05

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.

<table>
<thead>
<tr>
<th>DESIGNATED SEATING POSITION:</th>
<th>Left Front Driver</th>
</tr>
</thead>
<tbody>
<tr>
<td>GVWR:</td>
<td>2518 kg</td>
</tr>
</tbody>
</table>

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

2. Position the seat’s adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)
   - 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. If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S16.2.10.3.1)
   - N/A, no independent fore-aft seat cushion adjustment

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

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

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

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

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

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

- N/A – no seat adjustment

- Reference angle as tested: Zero degrees

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

- N/A – no seat back angle adjustment

- Manufacturer’s design seat back angle: 18.5 degrees on seat back frame

- Tested seat back angle: 18.5 degrees on seat back frame

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

- N/A – no head restraint adjustment

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

- N/A – no adjustable upper seat belt anchorage

- Manufacturer’s specified anchorage position:

- Tested anchorage position:

15. Is the driver seat a bucket seat?

- Yes, go to 15.1 and skip 15.2.

- No, go to 15.2 and skip 15.1

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

- Record the width of the seat: 550 mm

- Record the distance from the edge of the seat to Plane B: 275 mm

15.2 Bench seats (including split bench seats):

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

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

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

- Distance from the vehicle centerline to Plane B:

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

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

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

| 0.30 inches | Horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1) |
| 0.35 inches | Vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1) |
| 22 degrees | Pelvic angle (20° to 25°) |

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

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

22. Fasten the seat belt around the dummy.

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

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

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

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

   Yes, continue
   No, go to 27

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

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

27.1 The torso and lap belt webbing of the seat belt system automatically retracts to a stowed position when the adjacent vehicle door is in an open position and the seat belt latch plate is released.

   Pass

27.2 The torso and lap belt webbing of the seat belt system automatically retracts when the seat belt latch plate is released.

   Pass

27.3 Neither 27.1 or 27.2 apply

   Fail

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

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

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

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 4/15/05
DATA SHEET 12
SEAT BELT RETRACTION (S7.4.5)

Test Vehicle: 2005 Chevrolet Trailblazer
Test Program: FMVSS 208 Compliance
Test Technician: Nick Kosinski
NHTSA No.: C50106
Test Date: 4/15/05

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

DESIGNATED SEATING POSITION: Right Front Passenger
GVWR: 2518 kg

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

2. Position the seat’s adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)
   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. If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S16.2.10.3.1)
   N/A, no independent fore-aft seat cushion adjustment

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

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

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

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

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

10. Using only the controls that change the seat in the fore-aft direction, place the seat in the middle fore-aft position. (S8.1.2)

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

N/A – no seat adjustment

Reference angle as tested: Zero degrees

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

N/A – no seat back angle adjustment

Manufacturer’s design seat back angle: 18.5 degrees on seat back frame

Tested seat back angle: 18.5 degrees on seat back frame

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

N/A – no head restraint adjustment

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

N/A – no adjustable upper seat belt anchorage

Manufacturer’s specified anchorage position:

Tested anchorage position:

15. Is the driver seat a bucket seat?

Yes, go to 15.1 and skip 15.2.

No, go to 15.2 and skip 15.1

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

Record the width of the seat: 550 mm

Record the distance from the edge of the seat to Plane B: 275 mm

15.2 Bench seats (including split bench seats):

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

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

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

Distance from the vehicle centerline to Plane B:

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

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

18. Rest the thighs on the seat cushion
19. Position the H-point of the dummy within 0.5 inch of the vertical dimension and 0.5 inch of the horizontal dimension of a point 0.25 inch below the H-point determined by using the equipment and procedures specified in SAE J826 (APR 1980). (S10.4.2.1) Then measure the pelvic angle with respect to the horizontal using the pelvic angle gage. Adjust the dummy position until these three measurements are within the specifications. (S10.4.2.1 and S10.4.2.2)
   - Horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
   - Vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
   - Pelvic angle (20° to 25°)
20. Set the distance between the outboard knee clevis flange surfaces at 10.6 inches.
   - Measured distance (10.6 inches) (S10.5): 10.6 inches
21. To the extent practicable keep the thighs and the legs in a vertical plane (S10.5) and rest the thighs on the seat cushion while resting the feet on the floorpan or toe board.
22. Fasten the seat belt around the dummy.
23. Remove all slack from the lap belt portion. (S10.9)
24. Pull the upper torso webbing out of the retractor and allow it to retract; repeat this four times. (S10.9)
25. Apply a 2 to 4 pound tension load to the lap belt. (S10.9)
   - Pound load applied: 3.5 pounds
26. Is the belt system equipped with a tension relieving device?
   - Yes, continue
   - No, go to 27
   - 26.1 Introduce the maximum amount of slack into the upper torso belt that is recommended by the vehicle manufacturer in the vehicle owner’s manual. (S10.9). Go to 25.
27. Check the statement that applies to this test vehicle:
   - 27.1 The torso and lap belt webbing of the seat belt system automatically retracts to a stowed position when the adjacent vehicle door is in an open position and the seat belt latch plate is released. Pass
   - 27.2 The torso and lap belt webbing of the seat belt system automatically retracts when the seat belt latch plate is released. Pass
   - 27.3 Neither 27.1 or 27.2 apply Fail
28. With the webbing and hardware in the stowed position are the webbing and hardware prevented from being pinched when the door is closed?
   - Yes – Pass
   - No – Fail
29. If this test vehicle has an open body (without doors) and has a belt system with a tension-relieving device, does the belt system fully retract when the tension-relieving device is deactivated?

- X N/A
- Yes – Pass
- No – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________
Date: 4/15/05
DATA SHEET 13
SEAT BELT GUIDES AND HARDWARE (S7.4.6)

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

DESIGNATED SEATING POSITION: Left Front Driver

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

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

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

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

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

   Identify the part(s) on top or above the seat.
   - Seat belt latch plate
   - Buckle
   - Seat belt webbing

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

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

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

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

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 4/15/05
DATA SHEET 13
SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2005 Chevrolet Trailblazer  
Test Program: FMVSS 208 Compliance  
Test Technician: Nick Kosinski

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

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

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

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

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

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

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

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

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

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

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

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 4/15/05
DATA SHEET 13
SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2005 Chevrolet Trailblazer
Test Program: FMVSS 208 Compliance
Test Technician: Nick Kosinski
NHTSA No.: C50106
Test Date: 4/15/05

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

**DESIGNATED SEATING POSITION:** Left Rear Passenger

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

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

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
   - X

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
   - X
   - No, this form is complete

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

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

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

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

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

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]
Date: 4/15/05
DATA SHEET 13
SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2005 Chevrolet Trailblazer
Test Program: FMVSS 208 Compliance
Test Technician: Nick Kosinski

NHTSA No.: C50106
Test Date: 4/15/05

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

DESIGNATED SEATING POSITION: Center Rear Passenger

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

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

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

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

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

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

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

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

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

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]
Date: 4/15/05
DATA SHEET 13
SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2005 Chevrolet Trailblazer  
Test Program: FMVSS 208 Compliance  
Test Technician: Nick Kosinski  
NHTSA No.: C50106  
Test Date: 4/15/05

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

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

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

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

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

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

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

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

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

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

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

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 4/15/05
**DATA SHEET 14**

**MARKING OF REFERENCE POINTS FOR VARIOUS TEST POSITIONS AND POINTS**

<table>
<thead>
<tr>
<th>Test Vehicle:</th>
<th>2005 Chevrolet Trailblazer</th>
<th>NHTSA No.:</th>
<th>C50106</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
<td>Test Date:</td>
<td>6/6/05</td>
</tr>
<tr>
<td>Test Technician:</td>
<td>Eric Peschman</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. **Driver Designated Seating Position:**
   - 1.1 Position the seat’s adjustable lumbar supports so that the lumbar supports are in the lowest, retracted or deflated adjustment positions. (S16.2.10.1)
     - N/A – No lumbar adjustment
   - 1.2 Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position (S16.2.10.2)
     - N/A – No additional support adjustment
   - 1.3 Mark a point (seat cushion reference point) on the side of the seat cushion that is between 150 mm and 250 mm from the front edge of the seat cushion.
   - 1.4 Draw a line (seat cushion reference line) through the seat cushion reference point.
   - 1.5 Using only the controls that primarily move the seat in the fore-aft direction, move the seat cushion reference point to the rearmost position.
   - 1.6 If the seat cushion adjusts fore-aft, independent of the seat back, use only the controls that primarily move the seat cushion in the fore-aft direction to move the seat cushion reference point to the rearmost position (S16.2.10.3)
     - N/A – No independent fore-aft seat cushion adjustment
   - 1.7 Using any part of any control, other than the parts just used for fore-aft positioning, determine the range of angles of the seat cushion reference line and set the seat cushion reference line at the mid-angle.
     - Maximum Angle: 4.0 degrees nose up
     - Minimum Angle: 1.0 degrees nose up
     - Mid-angle: 2.5 degrees nose up
   - 1.8 If the seat and/or seat cushion height is adjustable, use any part of any control other than those which primarily move the seat or seat cushion fore-aft, to put the seat cushion reference point in its lowest position with the seat cushion reference line angle at the mid-angle found in 1.7.
     - N/A – No seat height adjustment
   - 1.9 Using only the controls that primarily move the seat in the fore-aft direction, verify the seat is in the rearmost position.
   - 1.10 Using only the controls that primarily move the seat in the fore-aft direction, mark for future reference the fore-aft seat positions. Mark each position so that there is a visual indication when the seat is at a particular position. For manual seats, move the seat forward one detent at a time and mark each detent. For power seats, mark only the rearmost, middle, and foremost positions. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the closest adjustment position to the rear of the mid-point), and R for rearmost.
   - 1.11 Use only the controls that primarily move the seat in the fore-aft direction to place the seat in the rearmost position.
1.12 Using any controls, other than the controls that primarily move the seat and/or seat cushion in the fore-aft direction, find and visually mark for future reference the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.7.

1.13 Using only the controls that primarily move the seat and/or seat cushion in the fore-aft direction, place the seat in the mid-fore-aft position.

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

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

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

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

N/A – No seat back angle adjustment

Manufacturer’s design seat back angle: 18.5 degrees on seat back frame

1.18 Is the seat a bucket seat?

Yes, go to 1.18.1 and skip 1.18.2

No, go to 1.18.2 and skip 1.18.1

1.18.1 Bucket seats:

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

Record the width of the seat cushion: 526 mm

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

Record the distance from the edge of the seat cushion to the seat mark: 263 mm

1.18.2 Bench seats:

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

2. Passenger Designated Seating Position

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

Yes, go to 2.2

No, go to 2.18

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

N/A – No lumbar adjustment

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

N/A – No additional support adjustment

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

2.6 Using only the controls that primarily move the seat in the fore-aft direction, move the seat cushion reference point to the rearmost position.

2.7 If the seat cushion adjusts fore-aft, independent of the seat back, use only the controls that primarily move the seat cushion in the fore-aft direction to move the seat cushion reference point to the rearmost position (S16.2.10.3, S20.1.9.3, S22.1.7.3)

N/A – No independent fore-aft seat cushion adjustment.

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

Maximum Angle: 0 degrees
Minimum Angle: 0 degrees
Mid-angle: 0 degrees

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

N/A – No seat height adjustment

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

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

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

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

N/A – No seat height adjustment Go to 2.18

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

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

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

2.17 Using any controls, other than the controls that primarily move the seat in the fore-aft direction, find and visually mark for future reference the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 2.8.
2.18 Visually mark for future reference the seat back angle, if adjustable, at the manufacturer’s nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer.

N/A – No seat back angle adjustment
N/A – The seat back angle adjustment is controlled by the setting of the driver seat back angle.

Manufacturer’s design seat back angle: 18.5 degrees on seat back frame
Actual seat back angle: 18.5 degrees on seat back frame

2.19 Is the seat a bucket seat?
Yes, go to 2.19.1 and skip 2.19.2
No, go to 2.19.2 and skip 2.19.1

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

Record the width of the seat cushion: 528 mm
One half the width of the seat cushion is: 264 mm

3.1.1 Adjust the head restraint to its lowest position. (S16.3.4.2)
3.1.2 Any adjustment of the head restraint shall be used to position it full forward. For example, if it rotates, rotate it such that the head restraint extends as far forward as possible. Mark the foremost position.
3.1.3 Measure the vertical distance from the top most point of the head restraint to the bottom most point. Locate and mark a horizontal plane through the midpoint of this distance.
Vertical height of head restraint (mm): 180
Mid-point height (mm): 90

3.2 Right outboard
3.2.1 Adjust the head restraint to its lowest position. (S16.3.4.2)
### 3.2.2 Any adjustment of the head restraint shall be used to position it full forward. For example, if it rotates, rotate it such that the head restraint extends as far forward as possible. Mark the foremost position.

### 3.2.3 Measure the vertical distance from the top most point of the head restraint to the bottom most point. Locate and mark a horizontal plane through the midpoint of this distance. Vertical height of head restraint (mm): 180

Mid-point height (mm): 90

### 4. Steering Wheel

#### 4.1 Is the steering wheel adjustable up and down and/or in and out?

- Yes, go to 4.2
- No, this form is complete

#### 4.2 Find and mark for future reference each up and down position. Label three of the positions with the following: H for highest, M for mid-position (if there is no mid-position, label the next lowest adjustment position), and L for lowest.

N/A, steering wheel is not adjustable up and down

#### 4.3 Find and mark for future references each in and out position. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the next rearmost adjustment position), and R for rearmost.

N/A, steering wheel is not adjustable in and out

### 5. Driver Low Risk Deployment

N/A, no low risk deployment tests scheduled

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

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

#### 5.3 Locate the vertical plane parallel to the vehicle longitudinal centerline through the geometric center of the opening through which the driver air bag deploys into the occupant compartment. This is referred to as “Plane E”. (Check determination method below.) (S26.2.6)

- Plane E determined using manufacturer’s information supplied by the COTR. (Found in Appendix D on page D-37)
- Plane E determined by test lab personnel and approved by the COTR. (Include supporting documentation in the test report.)

<table>
<thead>
<tr>
<th>“Plane E” Measurement:</th>
<th>Ey (mm)</th>
</tr>
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<tbody>
<tr>
<td>Measured:</td>
<td></td>
</tr>
<tr>
<td>Specified:</td>
<td></td>
</tr>
<tr>
<td>Verify Measured Equals Specified +/- 6mm:</td>
<td></td>
</tr>
</tbody>
</table>
5.4 Locate the horizontal plane through the highest point of the air bag module cover. This is referred to as "Plane F." (Check determination method below.) (S26.2.6)

- Plane F determined using manufacturer’s information supplied by the COTR. (Found in Appendix D on page D-37)
- Plane F determined by test lab personnel and approved by the COTR. (Include supporting documentation in the test report.)

<table>
<thead>
<tr>
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<td>Measured:</td>
</tr>
<tr>
<td>Specified:</td>
</tr>
<tr>
<td>Verify Measured Equals Specified +/- 6mm:</td>
</tr>
</tbody>
</table>

6. Passenger Low Risk Deployment – Planes C and D

- N/A, no low risk deployment tests scheduled

6.1 Locate the horizontal plane through the geometric center of the opening through which the right front air bag deploys into the occupant compartment. This is referred to as "Plane C." (Check location method below.) (S22.4.1.3)

- Plane C located using manufacturer’s information supplied by the COTR. (Include manufacturer’s information in the test report.) OR
- Plane C located by test lab personnel and approved by the COTR. (Include supporting documentation in the test report.)

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

6.2 Locate the vertical plane parallel to the vehicle longitudinal centerline through the geometric center of the opening through which the right front air bag deploys into the occupant compartment. This is referred to as "Plane D." (Check determination method below.) (S22.4.1.2)

- Plane D determined using manufacturer’s information supplied by the COTR. (Include manufacturer’s information in the test report.) OR
- Plane D determined by test lab personnel and approved by the COTR. (Include supporting documentation in the test report.)

<table>
<thead>
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<th>Dy (mm)</th>
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<tbody>
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<td>&quot;Plane D&quot; Measurement:</td>
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<td>Measured:</td>
</tr>
<tr>
<td>Specified:</td>
</tr>
<tr>
<td>Verify Measured Equals Specified +/- 6mm:</td>
</tr>
</tbody>
</table>
6.3 **Mark** the intersection of Planes C and D on the instrument panel.

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

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

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

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

Signature: ____________________  Date: 6/6/05
DATA SHEET 15 SUMMARY
Suppression Test Using 12-month-old CRABI Dummy  (Part 572, Subpart R)
Section B  Rear Facing CRS

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C50106</th>
<th>TEST DATE:</th>
<th>4-19-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>TB</td>
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<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>082</td>
</tr>
</tbody>
</table>

CHILD RESTRAINT NAME: Britax
CHILD RESTRAINT MODEL: Handle With Care 191
DATE OF MANUFACTURE: 5-26-2000

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

Manufacturer’s design seat back angle: 18.5° On Seatback Frame
Tested seat back angle: 18.5° On Seatback Frame
Manufacturer’s specified anchorage position: None; Integral Anchorage
Tested anchorage position: None; Integral Anchorage

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

### Test Summary

<table>
<thead>
<tr>
<th>Belted</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>Handle Down</th>
<th>Handle Up</th>
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<tbody>
<tr>
<td>Rear</td>
<td>Forward</td>
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<td>Suppressed</td>
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<tr>
<td>Facing</td>
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<td>Suppressed</td>
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<tr>
<td></td>
<td>Rearward</td>
<td>133</td>
<td>Suppressed</td>
<td>N/A</td>
</tr>
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</table>

<table>
<thead>
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<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>Handle Down</th>
<th>Handle Up</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rear</td>
<td>Forward</td>
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<td>N/A</td>
</tr>
<tr>
<td>Facing</td>
<td>Middle</td>
<td>N/A</td>
<td>Suppressed</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN516)
DATA SHEET 15 SUMMARY
Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart R)
Section B Rear Facing CRS

<table>
<thead>
<tr>
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<th>TEST DATE:</th>
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<td>TECHNICIANS:</td>
<td>JL</td>
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<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
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<table>
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<tr>
<th>CHILD RESTRAINT NAME:</th>
<th>Evenflo</th>
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<tr>
<td>CHILD RESTRAINT MODEL:</td>
<td>First Choice 204</td>
</tr>
<tr>
<td>DATE OF MANUFACTURE:</td>
<td>6-20-2000</td>
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</tbody>
</table>

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

Manufacturer’s design seat back angle: 18.5° On Seatback Frame
Tested seat back angle: 18.5° On Seatback Frame
Manufacturer’s specified anchorage position: None; Integral Anchorage
Tested anchorage position: None; Integral Anchorage

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

### Test Summary

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

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN516)

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 23 = Full Rearward; 23 total Seat Slide detents)
DATA SHEET 15 SUMMARY
Suppression Test Using 12-month-old CRABI Dummy  (Part 572, Subpart R)
Section B  Rear Facing CRS

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<thead>
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<th>4-20-05</th>
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<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
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<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
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<table>
<thead>
<tr>
<th>CHILD RESTRAINT NAME:</th>
<th>Graco</th>
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<tbody>
<tr>
<td>CHILD RESTRAINT MODEL:</td>
<td>Infant 8457</td>
</tr>
<tr>
<td>DATE OF MANUFACTURE:</td>
<td>8-31-2000</td>
</tr>
</tbody>
</table>

Base: _X_ On  _ Off  _N/A-Restraint does not have a removable base

Manufacturer’s design seat back angle:  18.5° On Seatback Frame
Tested seat back angle:  18.5° On Seatback Frame
Manufacturer’s specified anchorage position: None; Integral Anchorage
Tested anchorage position: None; Integral Anchorage

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

<table>
<thead>
<tr>
<th>Test Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seat Belt</td>
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<tr>
<td>---------------</td>
</tr>
<tr>
<td>Belted Rear Facing</td>
</tr>
<tr>
<td>Belted Rear Facing</td>
</tr>
<tr>
<td>Belted Rear Facing</td>
</tr>
<tr>
<td>Unbelted Rear Facing</td>
</tr>
<tr>
<td>Unbelted Rear Facing</td>
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<tr>
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</tr>
<tr>
<td>Unbelted Forward Facing</td>
</tr>
<tr>
<td>Unbelted Forward Facing</td>
</tr>
<tr>
<td>Unbelted Forward Facing</td>
</tr>
</tbody>
</table>

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 23 = Full Rearward; 23 total Seat Slide detents)
DATA SHEET 15 SUMMARY
Suppression Test Using 12-month-old CRABI Dummy  (Part 572, Subpart R)
Section B  Rear Facing CRS

<table>
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<th>NHTSA No.:</th>
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<th>4-20-05</th>
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<td>DUMMY TYPE:</td>
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<td>DUMMY SERIAL NO.:</td>
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<td>DATE OF MANUFACTURE:</td>
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Base: ___On  _X_Off  ___N/A-Restraint does not have a removable base

Manufacturer’s design seat back angle: 18.5° On Seatback Frame
Tested seat back angle: 18.5° On Seatback Frame
Manufacturer’s specified anchorage position: None; Integral Anchorage
Tested anchorage position: None; Integral Anchorage

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

### Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>Handle Down</th>
<th>Handle Up</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted Rear</td>
<td>Forward 3 *</td>
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<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
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<td>Suppressed</td>
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<tr>
<td></td>
<td>Rearward</td>
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<tr>
<td></td>
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<td>N/A</td>
<td>Suppressed</td>
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<tr>
<td></td>
<td>Rearward</td>
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<tr>
<td></td>
<td>Rearward</td>
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<td>Suppressed</td>
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</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN516)

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 23 = Full Rearward; 23 total Seat Slide detents)
DATA SHEET 15 SUMMARY
Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart R)
Section C Forward Facing Convertible CRS

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<td>TECHNICIANS:</td>
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<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
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</table>

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

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

Manufacturer’s design seat back angle: 18.5° On Seatback Frame
Tested seat back angle: 18.5° On Seatback Frame
Manufacturer’s specified anchorage position: None; Integral Anchorage
Tested anchorage position: None; Integral Anchorage

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

Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>No Blanket</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward</td>
<td>132</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>134</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>134</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Forward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Belted</td>
<td>Forward 7 *</td>
<td>128</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>127</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>133</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Forward 7 *</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN516)

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 23 = Full Rearward; 23 total Seat Slide detents)
DATA SHEET 15 SUMMARY
Suppression Test Using 12-month-old CRABI Dummy  (Part 572, Subpart R)
Section C  Forward Facing Convertible CRS

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C50106</th>
<th>TEST DATE:</th>
<th>4-19-05</th>
</tr>
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<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>TB</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>082</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CHILD RESTRAINT NAME:</th>
<th>Century</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHILD RESTRAINT MODEL:</td>
<td>Encore 4612</td>
</tr>
<tr>
<td>DATE OF MANUFACTURE:</td>
<td>8-16-2000</td>
</tr>
</tbody>
</table>

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

Manufacturer’s design seat back angle: 18.5° On Seatback Frame
Tested seat back angle: 18.5° On Seatback Frame
Manufacturer’s specified anchorage position: None; Integral Anchorage
Tested anchorage position: None; Integral Anchorage

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

### Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>No Blanket</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward</td>
<td>132</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
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<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>128</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Forward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>N/A</td>
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<tr>
<td>Belted</td>
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<tr>
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</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>129</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN516)

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 23 = Full Rearward; 23 total Seat Slide detents)
DATA SHEET 15 SUMMARY

Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart R)
Section C  Forward Facing Convertible CRS

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C50106</th>
<th>TEST DATE:</th>
<th>4-19-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>TB</td>
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<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>082</td>
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</table>

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

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

Manufacturer’s design seat back angle: 18.5° On Seatback Frame
Tested seat back angle: 18.5° On Seatback Frame
Manufacturer’s specified anchorage position: None; Integral Anchorage
Tested anchorage position: None; Integral Anchorage

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

### Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
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</thead>
<tbody>
<tr>
<td>Belted</td>
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<td>Middle</td>
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</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>131</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Forward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
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</tr>
<tr>
<td>Belted</td>
<td>Forward 2 *</td>
<td>129</td>
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<td>Middle</td>
<td>132</td>
<td>Suppressed</td>
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<tr>
<td></td>
<td>Rearward</td>
<td>132</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Forward 3 *</td>
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<tr>
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<td>Middle</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN516)

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 23 = Full Rearward; 23 total Seat Slide detents)
## DATA SHEET 16 SUMMARY

Suppression Test Using Newborn Infant Dummy  (Part 572, Subpart K)
Section A Car Bed

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C50106</th>
<th>TEST DATE:</th>
<th>4-20-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>TB</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>Newborn Infant</td>
<td>DUMMY SERIAL NO.:</td>
<td>003</td>
</tr>
</tbody>
</table>

| CAR BED NAME:     | Cosco           |
| CAR BED MODEL:    | Dream Ride 02-719 |
| DATE OF MANUFACTURE: | 6-16-2000     |

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

(A car bed with a removable base shall be treated as two separate models, i.e. this form and test procedure will be completed with the base on and then repeated on a new form with the base off.

Manufacturer’s design seat back angle: 18.5° On Seatback Frame
Tested seat back angle: 18.5° On Seatback Frame
Manufacturer’s specified anchorage position: None; Integral Anchorage
Tested anchorage position: None; Integral Anchorage

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

### Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Handle Down</th>
<th>Handle Up</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Forward 6 *</td>
<td>Suppressed</td>
<td>N/A</td>
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<tr>
<td></td>
<td>Middle</td>
<td>Suppressed</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>Won’t Fit</td>
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</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN516)

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 23 = Full Rearward; 23 total Seat Slide detents)
DATA SHEET 17 SUMMARY
Suppression Test Using 3 Year Old Dummy And Booster Seats (Part 572, Subpart P)
Section D  Forward Facing Belt Positioning Booster

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C50106</th>
<th>TEST DATE:</th>
<th>4-20-05</th>
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<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>TB</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>3 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>031</td>
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</table>

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

Manufacturer’s design seat back angle: 18.5° On Seatback Frame
Tested seat back angle: 18.5° On Seatback Frame
Manufacturer’s specified anchorage position: None; Integral Anchorage
Tested anchorage position: None; Integral Anchorage

Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>No Blanket</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward</td>
<td>9</td>
<td>Suppressed</td>
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<tr>
<td>Forward Facing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Without Harness</td>
<td>Middle</td>
<td>10</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>10</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Belted</td>
<td>Forward</td>
<td>134</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward Facing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cinched With Harness</td>
<td>Middle</td>
<td>133</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>133</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN516)
DATA SHEET 17 SUMMARY
Suppression Test Using 3 Year Old Dummy And Booster Seats (Part 572, Subpart P)
Section D  Forward Facing Toddler Belt Positioning Booster Seat

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C50106</th>
<th>TEST DATE:</th>
<th>4-20-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>TB</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>3 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
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</table>

<table>
<thead>
<tr>
<th>BOOSTER SEAT NAME:</th>
<th>Cosco</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOOSTER SEAT MODEL:</td>
<td>High Back Booster 02-442</td>
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<tr>
<td>DATE OF MANUFACTURE:</td>
<td>4-28-2000</td>
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</tbody>
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Manufacturer’s design seat back angle: 18.5° On Seatback Frame
Tested seat back angle: 18.5° On Seatback Frame
Manufacturer’s specified anchorage position: None; Integral Anchorage
Tested anchorage position: None; Integral Anchorage

Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>No Blanket</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward 4 *</td>
<td>10</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward Facing</td>
<td>Middle</td>
<td>11</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Without Harness</td>
<td>Rearward</td>
<td>10</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Belted</td>
<td>Forward</td>
<td>132</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward Facing</td>
<td>Middle</td>
<td>132</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Cinched With Harness</td>
<td>Rearward</td>
<td>127</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN516)

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 23 = Full Rearward; 23 total Seat Slide detents)
DATA SHEET 18 SUMMARY
Suppression Test Using 3 Year Old Dummy And Convertible Restraints (Part 572, Subpart P)
Section C  Forward Facing Convertible CRS

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C50106</th>
<th>TEST DATE:</th>
<th>4-20-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>TB</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>3 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
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</tr>
<tr>
<td>CHILD RESTRAINT NAME:</td>
<td>Britax</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHILD RESTRAINT MODEL:</td>
<td>Roundabout 161</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DATE OF MANUFACTURE:</td>
<td>7-21-2000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Manufacturer’s design seat back angle: 18.5° On Seatback Frame
Tested seat back angle: 18.5° On Seatback Frame
Manufacturer’s specified anchorage position: None; Integral Anchorage
Tested anchorage position: None; Integral Anchorage

Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward 3 *</td>
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<td>Suppressed</td>
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<td></td>
<td>Middle</td>
<td>128</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>127</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN516)

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 23 = Full Rearward; 23 total Seat Slide detents)
DATA SHEET 18 SUMMARY
Suppression Test Using 3 Year Old Dummy And Convertible Restraints (Part 572, Subpart P)
Section C  Forward Facing Convertible CRS

NHTSA No.: C50106  TEST DATE: 4-20-05
LABORATORY: MGA  TECHNICIANS: TB
DUMMY TYPE: 3 Year Old  DUMMY SERIAL NO.: 031

<table>
<thead>
<tr>
<th>CHILD RESTRAINT NAME:</th>
<th>Century</th>
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</thead>
<tbody>
<tr>
<td>CHILD RESTRAINT MODEL:</td>
<td>Encore 4612</td>
</tr>
<tr>
<td>DATE OF MANUFACTURE:</td>
<td>8-16-2000</td>
</tr>
</tbody>
</table>

Manufacturer’s design seat back angle: 18.5° On Seatback Frame
Tested seat back angle: 18.5° On Seatback Frame
Manufacturer’s specified anchorage position: None; Integral Anchorage
Tested anchorage position: None; Integral Anchorage

Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Forward</td>
<td>132</td>
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<tr>
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<td>Rearward</td>
<td>131</td>
<td>Suppressed</td>
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</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN516)
DATA SHEET 18 SUMMARY
Suppression Test Using 3 Year Old Dummy And Convertible Restraints (Part 572, Subpart P)
Section C  Forward Facing Convertible CRS

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C50106</th>
<th>TEST DATE:</th>
<th>4-20-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>TB</td>
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<td>DUMMY TYPE:</td>
<td>3 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>031</td>
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</table>

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

Manufacturer’s design seat back angle: 18.5° On Seatback Frame
Tested seat back angle: 18.5° On Seatback Frame
Manufacturer’s specified anchorage position: None; Integral Anchorage
Tested anchorage position: None; Integral Anchorage

Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward 3 *</td>
<td>128</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>129</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>131</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN516)

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 23 = Full Rearward; 23 total Seat Slide detents)
### Test Summary

<table>
<thead>
<tr>
<th>Position</th>
<th>Seat Slide</th>
<th>Seat Back Angle</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sitting on seat with back against seat back</td>
<td>Forward</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Position 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sitting on seat with back against reclined seat back</td>
<td>Forward</td>
<td>43.3</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>43.3</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>43.3</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Position 3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sitting on seat with back not against seat back</td>
<td>Forward</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Position 4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sitting on seat edge, spine vertical, hands at dummy's sides</td>
<td>Forward 2 *</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Position 5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standing on seat, facing forward</td>
<td>Forward</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Position 6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kneeling on seat, facing forward</td>
<td>Forward</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Position 7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kneeling on seat, facing rearward</td>
<td>Forward</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Position 8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lying on seat. (Three designated seating positions only)</td>
<td>Forward</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN516)

* The ATD would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 23 = Full Rearward; 23 total Seat Slide detents)
DATA SHEET 20 SUMMARY
Suppression Test Using 6 Year Old Dummy And Booster Seats (Part 572, Subpart N)
Section D  Forward Facing Toddler Belt Positioning Booster Seat

NHTSA No.: C50106  TEST DATE:  4-20-05
LABORATORY: MGA  TECHNICIANS:  TB/AH
DUMMY TYPE: 6 Year Old  DUMMY SERIAL NO.:  153

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

Manufacturer’s design seat back angle: 18.5° On Seatback Frame
Tested seat back angle: 18.5° On Seatback Frame
Manufacturer’s specified anchorage position: None; Integral Anchorage
Tested anchorage position: None; Integral Anchorage

Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Belt Load (N)</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward</td>
<td>12</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>12</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>11</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN516)
DATA SHEET 20 SUMMARY
Suppression Test Using 6 Year Old Dummy And Booster Seats (Part 572, Subpart N)
Section D  Forward Facing Toddler Belt Positioning Booster Seat

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>TEST DATE:</th>
<th>LABORATORY:</th>
<th>TECHNICIANS:</th>
<th>DUMMY TYPE:</th>
<th>DUMMY SERIAL NO.:</th>
</tr>
</thead>
<tbody>
<tr>
<td>C50106</td>
<td>4-19-05</td>
<td>MGA</td>
<td>TB/AH</td>
<td>6 Year Old</td>
<td>153</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BOOSTER SEAT NAME:</th>
<th>BOOSTER SEAT MODEL:</th>
<th>DATE OF MANUFACTURE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cosco</td>
<td>High Back Booster 02-442</td>
<td>4-28-2000</td>
</tr>
</tbody>
</table>

Manufacturer’s design seat back angle: 18.5° On Seatback Frame
Tested seat back angle: 18.5° On Seatback Frame
Manufacturer’s specified anchorage position: None; Integral Anchorage
Tested anchorage position: None; Integral Anchorage

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Belt Load (N)</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Forward</td>
<td>10</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>10</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>10</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN516)
DATA SHEET 20 SUMMARY
Suppression Test Using 6-Year-Old Dummy And Booster Seats (Part 572, Subpart N)
Section D  Forward Facing Toddler Belt Positioning Booster Seat

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C50106</th>
<th>TEST DATE:</th>
<th>4-19-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>TB/AH</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>6 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>153</td>
</tr>
<tr>
<td>BOOSTER SEAT NAME:</td>
<td>Evenflo</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BOOSTER SEAT MODEL:</td>
<td>Right Fit 245</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DATE OF MANUFACTURE:</td>
<td>6-26-2000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Manufacturer’s design seat back angle: 18.5° On Seatback Frame
Tested seat back angle: 18.5° On Seatback Frame
Manufacturer’s specified anchorage position: None; Integral Anchorage
Tested anchorage position: None; Integral Anchorage

Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Belt Load (N)</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Forward</td>
<td>9</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>9</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>9</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN516)
### Test Summary

<table>
<thead>
<tr>
<th>Position</th>
<th>Seat Slide</th>
<th>Seat Back Angle</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sitting on seat with back against seat back</td>
<td>Forward 4 *</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Position 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sitting on seat with back against reclined seat back</td>
<td>Forward 2 *</td>
<td>43.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>43.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>43.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Position 3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sitting on seat edge, spine vertical, hands at dummy's sides</td>
<td>Forward</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Position 4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sitting on seat with back against seat back then leaning on the door</td>
<td>Forward 4 *</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>18.5</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5\textsuperscript{th} percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN516)

* The ATD would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 23 = Full Rearward; 23 total Seat Slide detents)
DATA SHEET 27 SUMMARY
Low Risk Deployment Tests Using an Unbelted 6th Percentile Female Dummy (Part 572, Subpart O) (S26)
Position 1 - Chin On Module (S26.2)

NHTSA No.: C50106  TEST DATE:  4-27-05
LABORATORY:  MGA  TECHNICIANS:  BR/AH
DUMMY TYPE:  5th Percentile Female  DUMMY SERIAL NO.:  505

Manufacturer's design seat back angle:  18.5° On Seatback Frame
Tested seat back angle:  18.5° On Seatback Frame
Tested seat position:  Full Aft
Tested steering wheel angle:  21.2°
Thorax cavity angle:  27.3°
Bottom of chin height:  1 mm Above Module

Air Bag Deployment Timing

<table>
<thead>
<tr>
<th>Stage No.</th>
<th>Firing time (ms)</th>
<th>Recorded firing time (ms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>2</td>
<td>Not Fired</td>
<td>N/A</td>
</tr>
</tbody>
</table>

5th Percentile Female SN 505 Position 1 (Chin On Module) 4-27-05

<table>
<thead>
<tr>
<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Measured Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIC15</td>
<td>700</td>
<td>2</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>81.0</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>11.5</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>3.1</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>36.6</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2070 N</td>
<td>192</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>47</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>7</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>3</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>18</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>25</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 was not fired; Injuries calculated on 0 ms to 125 ms
DATA SHEET 28 SUMMARY
Low Risk Deployment Tests Using an Unbelted 5th Percentile Female Dummy (Part 572, Subpart O) (S26)
Position 2 - Chin On Rim (S26.3)

<table>
<thead>
<tr>
<th>NHTSA No.</th>
<th>C50106</th>
<th>TEST DATE:</th>
<th>4-27-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>BR/AH</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>5th Percentile Female</td>
<td>DUMMY SERIAL NO.:</td>
<td>516</td>
</tr>
</tbody>
</table>

Manufacturer's design seat back angle: 18.5° On Seatback Frame
Tested seat back angle: 18.5° On Seatback Frame
Tested seat position: Full Aft
Tested steering wheel angle: 21.3°
Thorax cavity angle: 27.2°
Chin Point height: 7 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>100.0</td>
<td>100.3</td>
</tr>
</tbody>
</table>

5th Percentile Female SN 516 Position 2 (Chin On Rim) 4-27-05

<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>8</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.3</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>12.7</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>28.4</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>180.4</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>52.4</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2070 N</td>
<td>652</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>42</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>32</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>14</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>25</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>11</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 100 ms; Injuries calculated on 0 ms to 225 ms
DATA SHEET 30  
VEHICLE WEIGHT, FUEL TANK, AND ATTITUDE DATA

Test Vehicle:  2005 Chevrolet Trailblazer  
Test Program:  FMVSS 208 Compliance  
Test Technician:  Nick Kosinski  
NHTSA No.:  C50106  
Test Date:  6/6/05

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

1. 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: 81.0 liters (21.4 gallons)
5. Record the fuel tank capacity supplied in the owner's manual.
   Useable Fuel Tank Capacity in owner's manual: 81.0 liters (21.4 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: 81.0 liters (21.4 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: 30 psi</th>
<th>LF: 30 psi</th>
<th>RR: 35 psi</th>
<th>LR: 35 psi</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner’s manual pressure:</td>
<td>RF: 30 psi</td>
<td>LF: 30 psi</td>
<td>RR: 35 psi</td>
<td>LR: 35 psi</td>
</tr>
<tr>
<td>Actual inflated pressure:</td>
<td>RF: 30 psi</td>
<td>LF: 30 psi</td>
<td>RR: 30 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>508.0</th>
<th>Right Rear (kg):</th>
<th>484.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Front (kg):</td>
<td>548.4</td>
<td>Left Rear (kg):</td>
<td>470.4</td>
</tr>
<tr>
<td>Total Front (kg):</td>
<td>1056.4</td>
<td>Total Rear (kg):</td>
<td>954.4</td>
</tr>
<tr>
<td>% Total Weight:</td>
<td>52.5</td>
<td>% Total Weight:</td>
<td>47.5</td>
</tr>
<tr>
<td>UVW = TOTAL FRONT PLUS TOTAL REAR (KG):</td>
<td>2010.8</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.
13.3 Measure perpendicular to the level surface to the 4 points marked on the body and record the measurements

RF: 847  LF: 843  RR: 878  LR: 876

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

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

X Yes, go to 14.3
X No, go to 14.2

14.2 VCW = Gross Vehicle Weight – UVW

VCW = __________ - __________ = __________

14.3 VCW = 521 kg (1148 lbs)

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

X Yes, go to 14.6
X No, go to 14.5 and skip 14.6

14.5 DSC = Total number of seat belt assemblies = __________

14.6 DSC = 5

14.7 RCLW = VCW – (68 kg x DSC) = 521 kg - (68 kg x 5 ) = 181 kg

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

X Yes, if the calculated RCLW is greater than 136 kg, use 136 kg as the RCLW. (S8.1.1)
X No, use the RCLW calculated in 14.7

15. Fully Loaded Weight (100% fuel fill): 2244.9 kg

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

Driver: X 5th female  50th male
Passenger: X 5th female  50th male

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

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

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

<table>
<thead>
<tr>
<th>Right Front (kg):</th>
<th>527.1</th>
<th>Right Rear (kg):</th>
<th>587.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Front (kg):</td>
<td>559.7</td>
<td>Left Rear (kg):</td>
<td>571.1</td>
</tr>
<tr>
<td>Total Front (kg):</td>
<td>1086.8</td>
<td>Total Rear (kg):</td>
<td>1158.1</td>
</tr>
<tr>
<td>% Total Weight:</td>
<td>48.4</td>
<td>% Total Weight:</td>
<td>51.6</td>
</tr>
<tr>
<td>% GVW</td>
<td>53.1</td>
<td>% GVW</td>
<td>57.7</td>
</tr>
<tr>
<td>(% GVW = Axle GVW divided by Vehicle GVW)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Fully Loaded Weight = Total Front Plus Total Rear (kg): | 2244.9 |

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

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

| RF: 842 | LF: 844 | RR: 838 | LR: 844 |

17. Drain the fuel system

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

Fuel tank capacity x .94 = 81.0 liters (21.4 gallons) x .94 = 76.1 liters (20.1 gallons)

Amount added 76.1 liters (20.1 gallons) 94%

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

20. Calculate the test weight range.

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

\[ 2244.8 \text{ kg} = 2010.8 \text{ kg} + 136.0 \text{ kg} + 98.0 \text{ kg} \]

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

Max. Test Weight = Calculated Test Weight – 4.5 kg = 2240.3 kg
Min. Test Weight = Calculated Test Weight – 9 kg = 2235.8 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:
Jack, tools, and rear carpeting

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: 106.1kg in rear cargo area

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

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

| Right Front (kg): 514.8 | Right Rear (kg): 583.8 |
| Left Front (kg): 566.5 | Left Rear (kg): 572.4 |
| Total Front (kg): 1081.3 | Total Rear (kg): 1156.2 |
| % Total Weight: 48.3 | % Total Weight: 51.7 |
| % GVW: 53.1 | % GVW: 57.7 |

(% GVW = Axle GVW divided by Vehicle GVW)

TOTAL FRONT PLUS TOTAL REAR (kg): 2237.5
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: 843 | LF: 844 | RR: 840 | LR: 844 |

30. Summary of test attitude
   30.1 AS DELIVERED:

   | RF: 847 | LF: 843 | RR: 878 | LR: 876 |

   AS TESTED:

   | RF: 843 | LF: 844 | RR: 840 | LR: 844 |

   FULLY LOADED:

   | RF: 842 | LF: 844 | RR: 838 | LR: 844 |

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: 6/6/05
DATA SHEET 31
VEHICLE ACCELEROMETER LOCATION AND MEASUREMENT

Test Vehicle: 2005 Chevrolet Trailblazer  
Test Program: FMVSS 208 Compliance  
Test Technician: Nick Kosinski  
NHTSA No.: C50106  
Test Date: 6/6/05

IMPACT ANGLE: Zero Degrees  
BELTED DUMMIES (YES/NO): No  
TEST SPEED: X 32 to 40 kmph 0 to 48 kmph 0 to 56 kmph  
DRIVER DUMMY: X 5th female  
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: Nick Kosinski  
Date: 6/6/05
Dimensions Corresponding To The Letters “A” Through “K” (Excluding “I”) Are Recorded In The Table On The Following Page. Accelerometers Corresponding To The Numbers 1 Through 8 Are Specified On The Preceding Page.
# DATA SHEET 31
## VEHICLE ACCELEROMETER LOCATION AND MEASUREMENTS

<table>
<thead>
<tr>
<th>DIMENSION</th>
<th>LENGTH (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PRETEST VALUES</strong></td>
<td></td>
</tr>
<tr>
<td>A (LH Rear Seat Xnbr)</td>
<td>310</td>
</tr>
<tr>
<td>B (RH Rear Seat Xnbr)</td>
<td>310</td>
</tr>
<tr>
<td>C (Engine Top)</td>
<td>4224</td>
</tr>
<tr>
<td>D (Engine Bottom)</td>
<td>4034</td>
</tr>
<tr>
<td>E (Caliper)</td>
<td>Right Side 4105</td>
</tr>
<tr>
<td>F (Left Caliper)</td>
<td>705</td>
</tr>
<tr>
<td>G (IP)</td>
<td>3070</td>
</tr>
<tr>
<td>H (Seat)</td>
<td>1850</td>
</tr>
<tr>
<td>J (Right Caliper)</td>
<td>705</td>
</tr>
<tr>
<td>K (Trunk)</td>
<td>1197</td>
</tr>
<tr>
<td><strong>POST TEST VALUES</strong></td>
<td></td>
</tr>
<tr>
<td>A (LH Rear Seat Xnbr)</td>
<td>310</td>
</tr>
<tr>
<td>B (RH Rear Seat Xnbr)</td>
<td>310</td>
</tr>
<tr>
<td>C (Engine Top)</td>
<td>4152</td>
</tr>
<tr>
<td>D (Engine Bottom)</td>
<td>3989</td>
</tr>
<tr>
<td>E (Caliper)</td>
<td>Right Side 4076</td>
</tr>
<tr>
<td>F (Left Caliper)</td>
<td>714</td>
</tr>
<tr>
<td>G (IP)</td>
<td>3073</td>
</tr>
<tr>
<td>H (Seat)</td>
<td>1844</td>
</tr>
<tr>
<td>J (Right Caliper)</td>
<td>679</td>
</tr>
<tr>
<td>K (Trunk)</td>
<td>1196</td>
</tr>
</tbody>
</table>
# DATA SHEET 32

## PHOTOGRAPHIC TARGETS

<table>
<thead>
<tr>
<th>Impact Angle:</th>
<th>Zero Degrees</th>
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</thead>
<tbody>
<tr>
<td>Belted Dummies (Yes/No):</td>
<td>No</td>
</tr>
<tr>
<td>Test Speed:</td>
<td>X 32 to 40 kmph</td>
</tr>
<tr>
<td>Driver Dummy:</td>
<td>X 5th female</td>
</tr>
<tr>
<td>Passenger Dummy:</td>
<td>X 5th female</td>
</tr>
</tbody>
</table>

1. FMVSS 208 vehicle targeting requirements (See Figures 28A and 28B)
   1.1 Targets A1 and A2 are on flat rectangular panels.
   1.2 Three circular targets at least 90 mm in diameter and with black and yellow quadrants are mounted at the front on the outboard sides of A1 and A2. The center of each circular target is 100 mm from the one next to it. Distance between targets (mm): 100 mm
   1.3 Three circular targets at least 90 mm in diameter and with black and yellow quadrants are mounted at the back on the outboard sides of on A1 and A2. The center of each circular target is 100 mm from the one next to it. Distance between targets (mm): 100 mm
   1.4 The distance between the first circular target at the front of A1 and A2 and the last circular target at the back of A1 and A2 is at least 915 mm. Distance between the first and last circular targets (mm): 915 mm
   1.5 Firmly fix target A1 on the vehicle roof in the vertical longitudinal plane that is coincident with the midsagittal plane of the driver dummy.
   1.6 Firmly fix target A2 on the vehicle roof in the vertical longitudinal plane that is coincident with the midsagittal plane of the passenger dummy.
   1.7 Two circular targets (C1 and C2) at least 90 mm in diameter and with black and yellow quadrants are mounted on the outside of the driver door. The centers of each circular target are at least 610 mm apart. Distance between targets (mm): 611 mm
   1.8 Two circular targets (C1 and C2) at least 90 mm in diameter and with black and yellow quadrants are mounted on the outside of the passenger door. The centers of each circular target are at least 610 mm apart.
   1.9 Place tape with squares having alternating colors on the top portion of the steering wheel.
   1.10 Chalk the bottom portion of the steering wheel
   1.11 Is this an offset test?
     Yes, continue with this section
     No, go to 2.
   1.12 Measure the width of the vehicle.

<table>
<thead>
<tr>
<th>Test Vehicle:</th>
<th>2005 Chevrolet Trailblazer</th>
</tr>
</thead>
<tbody>
<tr>
<td>NHTSA No.:</td>
<td>C50106</td>
</tr>
<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
</tr>
<tr>
<td>Test Technician:</td>
<td>Nick Kosinski</td>
</tr>
<tr>
<td>Test Date:</td>
<td>6/6/05</td>
</tr>
</tbody>
</table>

Vehicle width (mm):
1.13 Find the centerline of the vehicle. (½ of the vehicle width)

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

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

2. Barrier Targeting

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

2.2 Targets D1 and D2 are on a rectangular panel.

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

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

3. FMVSS 208 Dummy Targeting Requirements

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

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

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

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

4. FMVSS 204 Targeting Requirements

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

Yes, continue with this form.

No, this form is complete.

4.2 Resection panel (Figure 28C)

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

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

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

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

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

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

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 6/6/05
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
## DATA SHEET 33
### CAMERA LOCATIONS

**Test Vehicle:** 2005 Chevrolet Trailblazer  
**NHTSA No.:** C50106  
**Test Program:** FMVSS 208 Compliance  
**Test Date:** 6/6/05  
**Time:** 12:10 pm

<table>
<thead>
<tr>
<th>CAMERA NO.</th>
<th>VIEW</th>
<th>CAMERA POSITIONS (mm) *</th>
<th>LENS (mm)</th>
<th>SPEED (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Real Time Left Side View</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Left Side View (Barrier face to front seat backs)</td>
<td>860 -5765 1485</td>
<td>24</td>
<td>1000</td>
</tr>
<tr>
<td>3</td>
<td>Left Side View (Driver)</td>
<td>1635 -7610 1470</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>6580 -5055 2210</td>
<td>50</td>
<td>1000</td>
</tr>
<tr>
<td>5</td>
<td>Left Side View (Steering Column)</td>
<td>1310 -7255 1565</td>
<td>50</td>
<td>1000</td>
</tr>
<tr>
<td>6</td>
<td>Left Side View (Steering Column)</td>
<td>1295 -7235 1045</td>
<td>25</td>
<td>1000</td>
</tr>
<tr>
<td>7</td>
<td>Right Side View (Overall)</td>
<td>2540 8640 1495</td>
<td>24</td>
<td>1000</td>
</tr>
<tr>
<td>8</td>
<td>Right Side View (Passenger)</td>
<td>1865 9100 1460</td>
<td>50</td>
<td>1000</td>
</tr>
<tr>
<td>9</td>
<td>Right Side View (Angle)</td>
<td>6740 5290 2225</td>
<td>50</td>
<td>1000</td>
</tr>
<tr>
<td>10</td>
<td>Right Side View (Front door)</td>
<td>1065 5840 1265</td>
<td>24</td>
<td>1000</td>
</tr>
<tr>
<td>11</td>
<td>Front View Windshield</td>
<td>-615 0 2765</td>
<td>19</td>
<td>1000</td>
</tr>
<tr>
<td>12</td>
<td>Front View Driver</td>
<td>-165 -460 2095</td>
<td>12.5</td>
<td>1000</td>
</tr>
<tr>
<td>13</td>
<td>Front View Passenger</td>
<td>0 605 2080</td>
<td>12.5</td>
<td>1000</td>
</tr>
<tr>
<td>14</td>
<td>Overhead Barrier Impact View</td>
<td>570 0 5050</td>
<td>19</td>
<td>1000</td>
</tr>
<tr>
<td>15</td>
<td>Pit Camera Engine View</td>
<td>660 0 -3150</td>
<td>24</td>
<td>1000</td>
</tr>
<tr>
<td>16</td>
<td>Pit Camera Fuel Tank View</td>
<td>3145 0 -3150</td>
<td>24</td>
<td>1000</td>
</tr>
</tbody>
</table>

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

TOP VIEW

LEFT SIDE VIEW

CONCRETE BARRIER

MONORAIL

CONCRETE PAD

COVERED PHOTO PIT

TOW ROAD

REAL TIME CAMERA

CONCRETE BARRIER

COVERED PHOTO PIT

MONORAIL
DATA SHEET 34

APPENDIX G

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

Test Vehicle: 2005 Chevrolet Trailblazer  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke

Test Date: 6/6/05  
NHTSA No.: C50106

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

1. Position the seat’s adjustable lumbar supports so that the lumbar supports are in the lowest, retracted or deflated adjustment position. (S16.2.10.1)

   _ N/A – No lumbar adjustment

2. Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2)

   X N/A – No additional support adjustment

3. If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S16.2.10.3.1)

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

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

5. 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

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

7. Fully recline the seat back. (S16.3.2.1.2)

   __ N/A seat back not adjustable.

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

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

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

11. Set the angle between the legs and the thighs to 120 degrees. (S16.3.2.1.6)
12. Set the transverse distance between the centers of the front of the knees at 160 to 170 mm. (6.3 to 6.7 inches) Center the knee separation with respect to the longitudinal seat cushion marking as determined in item 1.18 of Data Sheet 14. (S16.3.2.1.6) Record Knee Separation 169 mm

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

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

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

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

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

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

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

20. If the left foot interferes with the clutch or brake pedals, rotate the left foot about the leg to provide clearance. If this is not sufficient, rotate the thigh outboard at the hip the minimum amount required for clearance. (S16.3.2.1.8) __ N/A, No foot interference with pedals. ___ Foot adjusted to provide clearance. ___ Foot and Thigh adjusted to provide clearance.
_21. Continue to move the seat. Use seat controls to line up the seat markings determined during the completion of Data Sheet 14 to set the foremost fore-aft position, mid-height position and the seat cushion mid-angle. If the dummy contacts the interior move the seat rearward until a maximum clearance of 5 mm (0.2 inches) is achieved or the seat is in the closest detent position that does not cause dummy contact. (S16.3.2.1.8)

X 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)

__22. If the steering wheel was repositioned in step 19, return the steering wheel to the original position. If the steering wheel contacts the dummy before reaching the original position, position the wheel until a maximum clearance of 5mm (.2 inches) is achieved, or the steering wheel is in the closest detent position that does not cause dummy contact. (S16.3.2.1.8)

N/A Steering wheel was not repositioned.

Original position achieved.

Dummy contact. Clearance set at maximum of 5mm

Measured Clearance ________________

Dummy Contact. Steering wheel set at nearest detent position.

Steering wheel position ___ detent positions upward of original position.

(Original position is position zero)

X 23. If the seat back is adjustable, rotate the seat back forward while holding the thighs in place. Continue rotating the seat back forward until the transverse instrument platform of the dummy head is level ± 0.5 degrees. If the head cannot be leveled using the seat back adjustment, or the seat back is not adjustable, use the lower neck bracket adjustment to level the head. If a level position cannot be achieved, minimize the angle. (S16.3.2.1.9)

X Head Level Achieved. (Check all that apply)

X Head leveled using the adjustable seat back

__Head leveled using the neck bracket.

Head Angle _______0.0______ degrees

__Head Level NOT Achieved. (Check all that apply)

__Head adjusted using the adjustable seat back

__Head adjusted using the neck bracket.

Head Angle _____________ degrees

X 24. Verify the pelvis is not interfering with the seat bight. (S16.3.2.1.9)

X No interference

__Pelvis moved forward the minimum amount so that it is not caught in the seat bight.
_X_ 25. Verify the dummy abdomen is properly installed. (S16.3.2.1.9)
   _X_ Abdomen still seated properly into dummy
   __Abdomen was adjusted because it was not seated properly into dummy

_XX_ 26. Head Angle
   _X_ N/A, neither the pelvis nor the abdomen were adjusted.

_XX_ 26.1 Head still level (Go to 27)

_XX_ 26.2 Head level adjusted

   __Head Level Achieved. (Check all that apply)
   __Head leveled using the adjustable seat back
   __Head leveled using the neck bracket.
   Head Angle __________ degrees

   __Head Level NOT Achieved. (Check all that apply)
   __Head level adjusted using the adjustable seat back
   __Head level adjusted using the neck bracket.
   Head Angle __________ degrees

_XX_ 27. If the dummy torso contacts the steering wheel while performing step 23, reposition the steering wheel in the following order to eliminate contact.
   _X_ N/A, No dummy torso contact with the steering wheel.

_XX_ 27.1 Adjust telescoping mechanism.
   _X_ 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.

_XX_ 27.2 Adjust tilt mechanism.
   __N/A No tilt adjustment.
   _X_ No adjustment performed.
   __Adjustment performed.
   Steering wheel moved ____ detent positions Upward/Downward.
   (circle one)
   Steering wheel moved ____ degrees Upward/Downward

_XX_ 27.3 Adjust Seat in the aft direction.
   _X_ No Adjustment performed.
   __Seat moved aft ____ mm from original position.
   __Seat moved aft ____ detent positions from the original position.

_XX_ 28. Measure and set the pelvic angle using the pelvic angle gage TE-2504. The pelvic angle should be 20.0 degrees ± 2.5 degrees. If the pelvic angle cannot be set to the specified range because the head will not be level, adjust the pelvis as closely as possible to the angle range, but keep the head level.
   __Pelvic angle set to 20.0 degrees ± 2.5 degrees.
   _X_ Pelvic angle of 20.0 degrees not achieved, the angular difference was minimized.
   _X_ Record the pelvic angle. ____ 27.6 ____ degrees
X 29. Check the dummy for contact with the interior after completing adjustments.
   X No contact.
   __Dummy in contact with interior.
   ___Seat moved aft ___ mm from the previous position.
   ___Seat moved aft ___ detent positions from the previous position.

X 30. Check the dummy to see if additional interior clearance is obtained, allowing the seat to
be moved forward.
   X N/A, Seat already at foremost position.
   __Clearance unchanged. No adjustments required.
   __Additional clearance available
   ___Seat moved Forward ___ mm from the previous position.
   ___Seat moved Forward ___ detent positions from the previous position.

X 31. Driver’s foot positioning, right foot. Place the foot perpendicular to the leg and determine
if the heel contacts the floor pan at any leg position. If the heel contacts the floor pan
proceed to step 32 otherwise, proceed to step 33.

X 32. Perform the following steps until either all steps are completed, or the foot contacts the
accelerator pedal. Step 32.6 shall be completed in all cases.

X 32.1 With the rear of the heel contacting the floor pan, move the foot forward until pedal
contact occurs or the foot is at the full forward position.

___32.2 If the vehicle has an adjustable accelerator pedal, move the pedals rearward until pedal
contact occurs or the pedals reach the full rearward position.

___32.3 Extend the leg, allowing the heel to lose contact with the floor until the foot contacts the
pedal. Do not raise the toe of the foot higher than the top of the accelerator pedal. If the
foot does not contact the pedal, proceed to the next step. If pedal contact does occur,
place a tapered foam block as shown in Figure G1 under the heel with the shallow part
of the taper facing forward.

___32.4 Angle the foot to achieve contact between the foot and the pedal. If the foot does not
contact the pedal, return the foot to the perpendicular orientation. If pedal contact does
occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part
of the taper facing forward.

___32.5 Align the centerline of the foot with the vertical-longitudinal plane passing through the
center of the accelerator pedal. Place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward.

X 32.6 Record foot position
   ___Pedal Contact achieved. Contact occurred at step 32.1.
   X Heel contacts floor pan
   ___Heel set _____ mm from floor pan.

___ Pedal Contact not achieved. Heel set _____ mm from the floor pan.
FIGURE G1

__33. Perform the following steps until either all steps are completed, or the foot contacts the accelerator pedal. Step 33.5 shall be completed in all cases.

__33.1 Extend the leg until the foot contacts the pedal. Do not raise the toe of the foot higher than the top of the accelerator pedal. If the foot does not contact the pedal, proceed to the next step. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward.

__33.2 If the vehicle has an adjustable accelerator pedal, move the pedals rearward until pedal contact occurs or the pedals reach the full rearward position. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward.

__33.3 Angle the foot to achieve contact between the foot and the pedal. If the foot does not contact the pedal, return the foot to the perpendicular orientation. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward.

__33.4 Align the centerline of the foot in the same horizontal plane as the centerline of the accelerator pedal. Place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward.
33.5 Record foot position

Pedal Contact achieved. Contact occurred at step 32.1.

Heel set ______ mm from floor pan.

Pedal Contact not achieved. Heel set ______ mm from the floor pan.

34. Driver’s foot positioning, left foot.

34.1 Place the foot perpendicular to the leg and determine if the heel contacts the floor pan at any leg position. If the heel contacts the floor pan proceed to step 34.2, otherwise position the leg as perpendicular to the thigh as possible with the foot parallel to the floor pan.

34.2 Place the foot on the toe board with the heel resting on the floor pan as close to the intersection of the floor pan and the toe board as possible. Adjust the angle of the foot if necessary to contact the toe board. If the foot will not contact the toe board, set the foot perpendicular to the leg, and set the heel on the floor pan as far forward as possible. Do not place the foot on the wheel well projection or footrest. If the pedals interfere with the placement of the foot, reposition the foot by rotating the foot about the leg, or rotate the leg outboard about the hip if necessary.

Foot rotated about the leg

Foot rotated about the leg, and the leg rotated about the hip.

No pedal interference

34.3 Record foot position.

Heel does not contact floor pan.

Foot placed on toe board.

Foot placed on floor pan.

35. Driver arm/hand positioning.

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

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

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

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

36. Adjustable head restraints

N/A, there is no head restraint adjustment

36.1 If the head restraint has an automatic adjustment, leave it where the system positions the restraint after the dummy is placed in the seat. (S16.3.4.1) Go to 37.
36.2 Adjust each head restraint vertically so that the horizontal plane determined in item 3 of Data Sheet 14 is aligned with the center of gravity (CG) of the dummy head. (S16.3.4.3)

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

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

37. Driver and passenger manual belt adjustment (for tests conducted with a belted dummy). (S16.3.5) Unbelted Test

37.1 If an adjustable seat belt D-ring anchorage exists, place it in the manufacturer’s design position for a 5th percentile adult female.
   This information will be supplied by the COTR.
   Manufacturer’s specified position ______________________________
   Actual Position ______________________________

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

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

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

REMARKS:

I certify that I have read and performed each instruction.

Signature: ____________________ Date: 6/6/05
APPENDIX G
DUMMY POSITIONING PROCEDURES
FOR 5th% PASSENGER TEST DUMMY CONFORMING TO SUBPART O OF PART 572

Test Vehicle: 2005 Chevrolet Trailblazer
Test Program: FMVSS 208 Compliance
Test Technician: Jordan Haynes

NHTSA No.: C50106
Test Date: 6/6/05

<table>
<thead>
<tr>
<th>IMPACT ANGLE:</th>
<th>Zero Degrees</th>
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<tbody>
<tr>
<td>BELTED DUMMIES (YES/NO):</td>
<td>No</td>
</tr>
<tr>
<td>TEST SPEED:</td>
<td>X 32 to 40 kmph</td>
</tr>
<tr>
<td>DRIVER DUMMY:</td>
<td>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. Position the seat’s adjustable lumbar supports so that the lumbar supports are in the lowest, retracted or deflated adjustment position. (S16.2.10.1)
   X N/A – No lumbar adjustment

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

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

X 4. Use the seat markings determined during the completion of Data Sheet 14 to set the rearmost fore-aft position, mid-height position and the seat cushion mid-angle. (S16.3.3.1.1)

X 5. Fully recline the seat back. (S16.3.3.1.2)
   __ N/A seat back not adjustable.

X 6. Place the dummy in the seat with the legs at an angle of 120 degrees to the thighs. The calves should not be touching the seat cushion. (S16.3.3.1.2)

X 7. Position the dummy in the seat such that the midsagittal plane is coincident with the longitudinal seat cushion marking that was determined in item 2.19 of Data Sheet 14 (S16.3.3.1.3 and S16.3.3.1.4)

X 8. Hold down the dummy’s thighs and push rearward on the upper torso to maximize the pelvic angle. (S16.3.3.1.5)

X 9. Set the angle between the legs and the thighs to 120 degrees. (S16.3.3.1.6)
10. Set the transverse distance between the centers of the front of the knees at 160 to 170 mm. (6.3 to 6.7 inches) Center the knee separation with respect to the longitudinal seat cushion marking that was determined in item 2.19 of Data Sheet 14. (S16.3.3.1.6) Record Knee Separation 165 mm

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

12. Gently rock the upper torso ± 5 degrees (approximately 51 mm (2 inches)) side-to-side three times. (S16.3.3.1.7)

13. If needed, extend the legs until the feet do not contact the floor pan. The thighs should be resting on the seat cushion. (S16.3.3.1.8)

14. Use seat controls to line up the seat markings determined during the completion of Data Sheet 14 to set the foremost fore-aft position, mid-height position and the seat cushion mid-angle. If the dummy contacts the interior move the seat rearward until a maximum clearance of 5 mm (0.2 inches) is achieved or the seat is in the closest detent position that does not cause dummy contact. (S16.3.3.1.8)
   - Foremost, mid-height position and the seat cushion mid-angle reached
   - Dummy contact. Clearance set at maximum of 5mm
   - Measured Clearance______________
   - Dummy Contact. Seat set at nearest detent position.
   - Seat position ___ detent positions rearward of foremost
     (Foremost is position zero)

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

   - Head Level Achieved. (Check all that apply)
     - Head leveled using the adjustable seat back
     - Head leveled using the neck bracket.
     - Head Angle ______ 0.2 ______ degrees

   - Head Level NOT Achieved. (Check all that apply)
     - Head adjusted using the adjustable seat back
     - Head adjusted using the neck bracket.
     - Head Angle ____________ degrees
X 16. Verify the pelvis is not interfering with the seat bight. (S16.3.3.1.9)
   _X No interference
   __Pelvis moved forward the minimum amount so that it is not caught in the seat bight.

X 17. Verify the dummy abdomen is properly installed. (S16.3.3.1.9)
   _X Abdomen still seated properly into dummy
   __Abdomen was adjusted because it was not seated properly into dummy

X 18. Head Angle
   _X N/A, neither the pelvis nor the abdomen were adjusted.

X 18.1 Head still level (Go to 19)
   __18.2 Head level adjusted

   __Head Level Achieved. (Check all that apply)
   __Head leveled using the adjustable seat back
   __Head leveled using the neck bracket.
   __Head Angle ____________ degrees

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

X 19. Measure and set the pelvic angle using the pelvic angle gage TE-2504. The pelvic angle should be 20.0 degrees ± 2.5 degrees. If the pelvic angle cannot be set to the specified range because the head will not be level, adjust the pelvis as closely as possible to the angle range, but keep the head level.
   _X Pelvic angle set to 20.0 degrees ± 2.5 degrees.
   _X Pelvic angle of 20.0 degrees not achieved, the angular difference was minimized.
   _X Record the pelvic angle. 23.2 degrees

X 20. Check the dummy for contact with the interior after completing adjustments.
   _X No contact.
   __Dummy in contact with interior.
       __Seat moved aft ___ mm from the previous position.
       __Seat moved aft ___ detent positions from the previous position.

X 21. Verify the transverse instrument platform of the dummy head is level +/- 0.5 degrees. Use the lower neck bracket adjustment to level the head. If a level position cannot be achieved, minimize the angle. (S16.3.3.1.9, S16.3.3.1.10, and S16.3.3.1.11)
   _X Head Level Achieved
       Head Angle 0.0 degrees
   __Head Level NOT Achieved.
       Head Angle ____________ degrees
X 22. Check the dummy to see if additional interior clearance is obtained, allowing the seat to be moved forward. (S16.3.3.1.12)
   __N/A Bench Seat
   X N/A Seat already at full forward position.
   _ Clearance unchanged. No adjustments required.
   _ Additional clearance available
      _ Seat moved Forward ___ mm from the previous position.
      _ Seat moved Forward ___ detent positions from the previous position.
      _ Seat moved Forward, Full Forward position reached.

X 23. Passenger foot positioning. (Indicate final position achieved) (S16.3.3.2)
   _ 23.1 Place feet flat on the toe board; OR

X 23.2 If the feet cannot be placed flat on the toe board, set the feet perpendicular to the lower leg, and rest the heel as far forward on the floor pan as possible; OR
   __23.3 If the heels do not touch the floor pan, set the legs to vertical and set the feet parallel to the floor pan.

X 24. Passenger arm/hand positioning. (S16.3.3.3)
   X 24.1 Place the dummy's upper arms adjacent to the torso with the arm centerlines as close to a vertical longitudinal plane as possible. (S16.3.2.3.1)
   X 24.2 Place the palms of the dummy in contact with the outer part of the thighs (S16.3.3.3.2)
   X 24.3 Place the little fingers in contact with the seat cushion. (S16.3.3.3.3)

X 25. Adjustable head restraints
   _ N/A, there is no head restraint adjustment

X 25.1 If the head restraint has an automatic adjustment, leave it where the system positions the restraint after the dummy is placed in the seat. (S16.3.4.1) Go to 26.

X 25.2 Adjust each head restraint vertically so that the horizontal plane determined in item 3 of Data Sheet 14 is aligned with the center of gravity (CG) of the dummy head. (S16.3.4.3)

X 25.3 If the above position is not attainable, move the vertical center of the head restraint to the closest detent below the center of the head CG. (S16.3.4.3)
   __N/A midpoint position attained in previous step
   X Headrest set at nearest detent below the head CG

X 25.4 If the head restraint has a fore and aft adjustment, place the restraint in the foremost position or until contact with the head is made, whichever occurs first. (S16.3.4.4)

X 26. Manual belt adjustment (for tests conducted with a belted dummy) S16.3.5
   X N/A, Unbelted test
26.1 If an adjustable seat belt D-ring anchorage exists, place it in the manufacturer’s design position for a 5th percentile adult female. This information will be supplied by the COTR.

Manufacturer’s specified position _____________________________________

Actual Position ____________________________________________________

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

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

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

REMARKS:

I certify that I have read and performed each instruction.

Signature: ___________________________ Date: 6/6/05
DATA SHEET 35

DUMMY MEASUREMENTS

Test Vehicle: 2005 Chevrolet Trailblazer  
Test Program: FMVSS 208 Compliance  
Test Technician: Jordan Haynes  
NHTSA No.: C50106  
Test Date: 6/6/05

DUMMY MEASUREMENTS FOR FRONT SEAT OCCUPANTS

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<thead>
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<th>Measurement</th>
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<td>CD</td>
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<td>CS</td>
<td>Chest to Steering Wheel Hub</td>
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<td>HH</td>
<td>Head to Header</td>
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<td>Right Knee to Dash</td>
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<td>H-Point to Door</td>
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<td>Head to Side Window</td>
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<td>Knee to Knee</td>
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<tr>
<td>SHY</td>
<td>Striker to H-Point (Y Axis)</td>
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</tbody>
</table>

Test Vehicle: 2005 Chevrolet Trailblazer  
Test Program: FMVSS 208 Compliance  
Test Technician: Jordan Haynes  
NHTSA No.: C50106  
Test Date: 6/6/05

Vertical Planes:
- Vertical Longitudinal Planes
- Vertical Transverse Plane

Seat Back Angle Line

Diagram illustrating dummy measurements for front seat occupants.
## DATA SHEET 35
### DUMMY MEASUREMENTS

**Test Vehicle:** 2005 Chevrolet Trailblazer  
**Test Program:** FMVSS 208 Compliance  
**Test Technician:** Jordan Haynes  
**NHTSA No.:** C50106  
**Test Date:** 6/6/05

### TEST DUMMY POSITION MEASUREMENTS

<table>
<thead>
<tr>
<th>Code</th>
<th>Measurement Description</th>
<th>Driver SN 507</th>
<th>Passenger SN 510</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Length (mm)</td>
<td>Angle (°)</td>
</tr>
<tr>
<td>WA</td>
<td>Windshield Angle</td>
<td>34.4</td>
<td></td>
</tr>
<tr>
<td>SWA</td>
<td>Steering Wheel Angle</td>
<td>69.4</td>
<td></td>
</tr>
<tr>
<td>SCA</td>
<td>Steering Column Angle</td>
<td>21.9</td>
<td></td>
</tr>
<tr>
<td>SA</td>
<td>Seat Back Angle (On Headrest)</td>
<td>9.0</td>
<td>10.0</td>
</tr>
<tr>
<td>HZ</td>
<td>Head to Roof (Z)</td>
<td>251</td>
<td>262</td>
</tr>
<tr>
<td>HH</td>
<td>Head to Header</td>
<td>382 39.1</td>
<td>384 38.9</td>
</tr>
<tr>
<td>HW</td>
<td>Head to Windshield</td>
<td>657 0.0</td>
<td>676 0.0</td>
</tr>
<tr>
<td>HR</td>
<td>Head to Side Header (Y)</td>
<td>281</td>
<td>330</td>
</tr>
<tr>
<td>NR</td>
<td>Nose to Rim</td>
<td>249 2.3</td>
<td></td>
</tr>
<tr>
<td>CD</td>
<td>Chest to Dash</td>
<td>474</td>
<td>366</td>
</tr>
<tr>
<td>CS</td>
<td>Chest to Steering Hub</td>
<td>190 3.7</td>
<td></td>
</tr>
<tr>
<td>RA</td>
<td>Rim to Abdomen</td>
<td>37 0.0</td>
<td></td>
</tr>
<tr>
<td>KDL</td>
<td>Left Knee to Dash</td>
<td>102 32.3</td>
<td>95</td>
</tr>
<tr>
<td>KDR</td>
<td>Right Knee to Dash</td>
<td>99</td>
<td>104 36.9</td>
</tr>
<tr>
<td>PA</td>
<td>Pelvic Angle</td>
<td>27.5</td>
<td>23.2</td>
</tr>
<tr>
<td>TA</td>
<td>Tibia Angle</td>
<td>55.5</td>
<td>58.0</td>
</tr>
<tr>
<td>KK</td>
<td>Knee to Knee (Y)</td>
<td>265</td>
<td>235</td>
</tr>
<tr>
<td>SK</td>
<td>Striker to Knee</td>
<td>779 90.3</td>
<td>795 91.4</td>
</tr>
<tr>
<td>ST</td>
<td>Striker to Head</td>
<td>610 59.2</td>
<td>635 62.1</td>
</tr>
<tr>
<td>SH</td>
<td>Striker to H-Point</td>
<td>462 92.2</td>
<td>445 90.7</td>
</tr>
<tr>
<td>SHY</td>
<td>Striker to H-Point (Y)</td>
<td>278</td>
<td>290</td>
</tr>
<tr>
<td>HS</td>
<td>Head to Side Window</td>
<td>373</td>
<td>378</td>
</tr>
<tr>
<td>HD</td>
<td>H-Point to Door (Y)</td>
<td>205</td>
<td>210</td>
</tr>
<tr>
<td>AD</td>
<td>Arm to Door (Y)</td>
<td>115</td>
<td>168</td>
</tr>
<tr>
<td>AA</td>
<td>Ankle to Ankle</td>
<td>249</td>
<td>193</td>
</tr>
</tbody>
</table>
SEAT BELT POSITIONING DATA

DUMMY'S CENTERLINE

SHOULDER BELT PORTION

TBI

'D' RING

SHOULDER BELT PORTION

BUCKLE ASSEMBLY

1/8" THICK ALUMINUM PLATE

EMERGENCY LOCKING RETRACTOR

OUTBOARD ANCHORAGE

INBOARD ANCHORAGE

LAP BELT PORTION

FLOORPAN

FRONT VIEW OF DUMMY

SEAT BELT POSITIONING MEASUREMENTS

<table>
<thead>
<tr>
<th>Measurement Description</th>
<th>Units</th>
<th>Driver</th>
<th>Passenger</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBU - Top surface of reference to belt upper edge</td>
<td>mm</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>PBL - To surface of reference to belt lower edge</td>
<td>mm</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
DATA SHEET 36
CRASH TEST

Test Vehicle: 2005 Chevrolet Trailblazer
Test Program: FMVSS 208 Compliance
Test Technician: Jordan Haynes
NHTSA No.: C50106
Test Date: 6/6/05

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

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.
   _X_ N/A, not a convertible
5. Instrumentation and wires are placed so the motion of the dummies during impact is not affected.
6. Tires inflated to pressure on tire placard or if it does not have a tire placard because it is not a passenger car, then inflated to the tire pressure specified in the owner information.
   210 kpa front left tire  210 kpa specified on tire placard or in owner information
   210 kpa front right tire  210 kpa specified on tire placard or in owner information
   240 kpa rear left tire  240 kpa specified on tire placard or in owner information
   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 71 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.
   Driver Dummy: Head to Headrest, and Air Bag; Knees to Knee Bolsters
   Passenger Dummy: Head to Air Bag and Header; Knees to Glove Box

REMARKS:

I certify that I have read and performed each instruction.

Signature: _______________________ Date: 6/6/05
### DATA SHEET NO. 38

**ACCIDENT INVESTIGATION DIVISION DATA**

| **Test Vehicle:** | 2005 Chevrolet Trailblazer
| **NHTSA No.:** | C50106
| **Test Program:** | FMVSS 208 Compliance
| **Test Date:** | 6/6/05
| **Test Technician:** | Nick Kosinski

| **IMPACT ANGLE:** | Zero Degrees
| **BELTED DUMMIES (YES/NO):** | No
| **TEST SPEED:** | X 32 to 40 kmph
| **DRIVER DUMMY:** | X 5th Female
| **PASSENGER DUMMY:** | X 5th Female

| **Vehicle Year/Make/Model/Body Style:** | 2005 Chevrolet Trailblazer MPV
| **VIN:** | 1GNDS13SX52128148
| **Wheelbase:** | 2876 mm
| **Build Date:** | 08/04
| **Vehicle Size Category:** | 4
| **Test Weight:** | 2237.5 kg
| **Front Overhang:** | 864 mm
| **Overall Width:** | 1840 mm
| **Overall Length Center:** | 4705 mm

### Accelerometer Data

| **Location:** | As per measurements on Data Sheet 31
| **Linearity:** | >99.9%
| **Integration Algorithm:** | Trapezoidal
| **Vehicle Impact Speed:** | 39.8 kmph
| **Time of Separation:** | 92.7 ms
| **Velocity Change:** | 46.0 kmph
CRUSH PROFILE

Collision Deformation Classification: 12FDEW6
Midpoint of Damage: Vehicle Longitudinal Centerline
Damage Region Length (mm): 1524
Impact Mode: Frontal Barrier

<table>
<thead>
<tr>
<th>No.</th>
<th>Measurement Description</th>
<th>Units</th>
<th>Pre-Test</th>
<th>Post-Test</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>Crush zone 1 at left side</td>
<td>mm</td>
<td>4705</td>
<td>4604</td>
<td>101</td>
</tr>
<tr>
<td>C2</td>
<td>Crush zone 2 at left side</td>
<td>mm</td>
<td>4795</td>
<td>4653</td>
<td>142</td>
</tr>
<tr>
<td>C3</td>
<td>Crush zone 3 at left side</td>
<td>mm</td>
<td>4822</td>
<td>4670</td>
<td>152</td>
</tr>
<tr>
<td>C4</td>
<td>Crush zone 4 at right side</td>
<td>mm</td>
<td>4822</td>
<td>4675</td>
<td>147</td>
</tr>
<tr>
<td>C5</td>
<td>Crush zone 5 at right side</td>
<td>mm</td>
<td>4794</td>
<td>4653</td>
<td>141</td>
</tr>
<tr>
<td>C6</td>
<td>Crush zone 6 at right side</td>
<td>mm</td>
<td>4705</td>
<td>4603</td>
<td>102</td>
</tr>
</tbody>
</table>

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 6/6/05
## DATA SHEET 39
### WINDSHIELD MOUNTING (FMVSS 212)

<table>
<thead>
<tr>
<th>Impact Angle:</th>
<th>Zero Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted Dummies (YES/NO):</td>
<td>No</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. Pre-Crash

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

Retained with glue
Rubber and plastic trim

1.2 Mark the longitudinal centerline of the windshield

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

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

1.5 Measure from the edge of the retainer or molding to the edge of the windshield.

Dimension G (mm): 31 mm

2. Post Crash

2.1 Can a single thickness of copier type paper (as small a piece as necessary) slide between the windshield and the vehicle body?

X No – Pass. Skip to the table of measurements, complete it by repeating the pre-crash measurements in the post crash column, and calculate the retention percentage, which will be 100%.

Y Yes, go to 2.2

2.2 Visibly mark the beginning and end of the portions of the periphery where the paper slides between the windshield and the vehicle body.

2.3 Measure and record post-crash A, B, C, D, E, and F such that the measurements do not include any of the parts of the windshield where the paper slides between the windshield and the vehicle body.

2.4 Calculate and record the percent retention for the right and left side of the windshield.

2.5 Is total right side percent retention less than 75%?

Y Yes, Fail

N No, Pass

2.6 Is total left side percent retention less than 75%?

Y Yes, Fail

N No, Pass

---

Test Vehicle: 2005 Chevrolet Trailblazer
Test Program: FMVSS 208 Compliance
Test Technician: Nick Kosinski
NHTSA No.: C50106
Test Date: 6/6/05
### WINDSHIELD RETENTION MEASUREMENTS

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Pre-Crash (mm)</th>
<th>Post-Crash (mm)</th>
<th>Percent Retention (Post-Test ÷ Pre-Crash)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>622.5</td>
<td>622.5</td>
<td>100%</td>
</tr>
<tr>
<td>B</td>
<td>714</td>
<td>714</td>
<td>100%</td>
</tr>
<tr>
<td>C</td>
<td>752.5</td>
<td>752.5</td>
<td>100%</td>
</tr>
<tr>
<td>Total</td>
<td>2089</td>
<td>2089</td>
<td>100%</td>
</tr>
<tr>
<td>D</td>
<td>622.5</td>
<td>622.5</td>
<td>100%</td>
</tr>
<tr>
<td>E</td>
<td>714</td>
<td>714</td>
<td>100%</td>
</tr>
<tr>
<td>F</td>
<td>752.5</td>
<td>752.5</td>
<td>100%</td>
</tr>
<tr>
<td>Total</td>
<td>2089</td>
<td>2089</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: 06/06/05
DATA SHEET 40
WINDSHIELD ZONE INTRUSION (FMVSS 219)

Test Vehicle: 2005 Chevrolet Trailblazer
Test Program: FMVSS 208 Compliance
Test Technician: Nick Kosinski

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

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.

FRONT VIEW OF WINDSHIELD
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>1245</td>
</tr>
<tr>
<td>B</td>
<td>mm</td>
<td>380</td>
</tr>
<tr>
<td>C</td>
<td>mm</td>
<td>1505</td>
</tr>
<tr>
<td>D</td>
<td>mm</td>
<td>714</td>
</tr>
<tr>
<td>E</td>
<td>mm</td>
<td>447</td>
</tr>
<tr>
<td>F</td>
<td>mm</td>
<td>573</td>
</tr>
</tbody>
</table>

AREA OF PROTECTED ZONE FAILURES:

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

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

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

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

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]  Date: 6/6/05
DATA SHEET 41
FUEL SYSTEM INTEGRITY (FMVSS 301)

Test Vehicle: 2005 Chevrolet Trailblazer  
Test Program: FMVSS 208 Compliance  
Test Technician: Eric Peschman  
NHTSA No.: C50106  
Test Date: 6/6/05

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
DATA SHEET NO. 41
FMVSS 301 STATIC ROLLOVER DATA

Test Vehicle: 2005 Chevrolet Trailblazer
Test Program: FMVSS 208 Compliance
NHTSA No.: C50106
Test Date: 6/6/05

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>168</td>
<td>300</td>
<td>0.0</td>
</tr>
<tr>
<td>90° to 180°</td>
<td>150</td>
<td>300</td>
<td>0.0</td>
</tr>
<tr>
<td>180° to 270°</td>
<td>144</td>
<td>300</td>
<td>0.0</td>
</tr>
<tr>
<td>270° to 360°</td>
<td>159</td>
<td>300</td>
<td>0.0</td>
</tr>
<tr>
<td>Figure No.</td>
<td>Title</td>
<td>Page No.</td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------------------------------------------</td>
<td>----------</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Driver Head X Acceleration vs. Time</td>
<td>A-1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Driver Head Y Acceleration vs. Time</td>
<td>A-1</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Driver Head Z Acceleration vs. Time</td>
<td>A-1</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Driver Head Resultant Acceleration vs. Time</td>
<td>A-1</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Driver Head X Velocity vs. Time</td>
<td>A-2</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Driver Head Y Velocity vs. Time</td>
<td>A-2</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Driver Head Z Velocity vs. Time</td>
<td>A-2</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Driver Neck Force X vs. Time</td>
<td>A-3</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Driver Neck Force Y vs. Time</td>
<td>A-3</td>
<td></td>
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<tr>
<td>10</td>
<td>Driver Neck Force Z vs. Time</td>
<td>A-3</td>
<td></td>
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<tr>
<td>11</td>
<td>Driver Neck Force Resultant vs. Time</td>
<td>A-3</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Driver Neck Moment X vs. Time</td>
<td>A-4</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Driver Neck Moment Y vs. Time</td>
<td>A-4</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Driver Neck Moment Z vs. Time</td>
<td>A-4</td>
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</tr>
<tr>
<td>15</td>
<td>Driver Neck Moment Resultant vs. Time</td>
<td>A-4</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Driver Chest X Acceleration vs. Time</td>
<td>A-5</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Driver Chest Y Acceleration vs. Time</td>
<td>A-5</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Driver Chest Z Acceleration vs. Time</td>
<td>A-5</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Driver Chest Resultant Acceleration vs. Time</td>
<td>A-5</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Driver Chest X Velocity vs. Time</td>
<td>A-6</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Driver Chest Y Velocity vs. Time</td>
<td>A-6</td>
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<tr>
<td>22</td>
<td>Driver Chest Z Velocity vs. Time</td>
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<td>23</td>
<td>Driver Chest Displacement vs. Time</td>
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<tr>
<td>24</td>
<td>Driver Left Femur Force vs. Time</td>
<td>A-7</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Driver Right Femur Force vs. Time</td>
<td>A-7</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>Passenger Head X Acceleration vs. Time</td>
<td>A-8</td>
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<tr>
<td>27</td>
<td>Passenger Head Y Acceleration vs. Time</td>
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</tr>
<tr>
<td>28</td>
<td>Passenger Head Z Acceleration vs. Time</td>
<td>A-8</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>Passenger Head Resultant Acceleration vs. Time</td>
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2005 CHEVROLET TRAILBLAZER (C50106)

Test Date: 06/06/05
Speed: 24.7 mph (39.8 km/h)

Max: 6.5 G's
Tmax: 278.5 ms
Min: -29.2 G's
Tmin: 79.1 ms
CFC 1000

Max: 3.5 G's
Tmax: 46.4 ms
Min: -3.1 G's
Tmin: 49.2 ms
CFC 1000

Max: 15.0 G's
Tmax: 53.4 ms
Min: -12.2 G's
Tmin: 42.2 ms
CFC 1000

Max: 32.1 G's
Tmax: 53.3 ms
Min: 0.0 G's
Tmin: 0.0 ms
CFC 1000
25MPH FRONTAL UNBELTED
2005 CHEVROLET TRAILBLAZER (C50106)
Test Date: 06/06/05
Speed: 24.7 mph (39.8 km/h)

DRIVER HEAD X Velocity (kph) vs TIME (ms)
Max: 39.9 kph
Tmax: 34.4 ms
Min: -19.6 kph
Tmin: 169.9 ms
CFC 180

DRIVER HEAD Y Velocity (kph) vs TIME (ms)
Max: 0.2 kph
Tmax: 64.2 ms
Min: -1.6 kph
Tmin: 232.8 ms
CFC 180

DRIVER HEAD Z Velocity (kph) vs TIME (ms)
Max: 22.2 kph
Tmax: 300.0 ms
Min: -2.3 kph
Tmin: 46.2 ms
CFC 180
25MPH FRONTAL UNBELTED
2005 CHEVROLET TRAILBLAZER (C50106)

Test Date: 06/06/05
Speed: 24.7 mph (39.8 km/h)

DRIVER NECK FX (N) vs TIME (ms)
Max: 550.1 N
Tmax: 54.5 ms
Min: -204.2 N
Tmin: 116.5 ms
CFC 1000

DRIVER NECK FY (N) vs TIME (ms)
Max: 75.3 N
Tmax: 60.5 ms
Min: -48.7 N
Tmin: 86.3 ms
CFC 1000

DRIVER NECK FZ (N) vs TIME (ms)
Max: 942.5 N
Tmax: 56.8 ms
Min: -313.4 N
Tmin: 42.3 ms
CFC 1000

DRIVER NECK FResultant (N) vs TIME (ms)
Max: 1029.3 N
Tmax: 53.5 ms
Min: 1.0 N
Tmin: 0.0 ms
CFC 1000
25MPH FRONTAL UNBELTED
2005 CHEVROLET TRAILBLAZER (C50106)

Test Date: 06/06/05
Speed: 24.7 mph (39.8 km/h)

- DRIVER NECK MX (Nm) vs TIME (ms)
  - Max: 6.8 Nm
  - Tmax: 67.7 ms
  - Min: -4.5 Nm
  - Tmin: 58.5 ms
  - CFC 600

- DRIVER NECK MY (Nm) vs TIME (ms)
  - Max: 28.9 Nm
  - Tmax: 106.3 ms
  - Min: -9.8 Nm
  - Tmin: 143.7 ms
  - CFC 600

- DRIVER NECK MZ (Nm) vs TIME (ms)
  - Max: 8.5 Nm
  - Tmax: 106.3 ms
  - Min: -7.5 Nm
  - Tmin: 96.3 ms
  - CFC 600

- DRIVER NECK MResultant (Nm) vs TIME (ms)
  - Max: 30.4 Nm
  - Tmax: 106.3 ms
  - Min: 0.0 Nm
  - Tmin: 0.0 ms
  - CFC 600
25MPH FRONTAL UNBELTED
2005 CHEVROLET TRAILBLAZER (C50106)

Test Date: 06/06/05
Speed: 24.7 mph (39.8 km/h)

PASSENGER HEAD X (G's) vs TIME (ms)
Max: 22.3 G's
Tmax: 187.3 ms
Min: -51.9 G's
Tmin: 93.4 ms
CFC 1000

PASSENGER HEAD Y (G's) vs TIME (ms)
Max: 10.5 G's
Tmax: 94.6 ms
Min: -8.8 G's
Tmin: 185.9 ms
CFC 1000

PASSENGER HEAD Z (G's) vs TIME (ms)
Max: 16.0 G's
Tmax: 71.5 ms
Min: -29.8 G's
Tmin: 91.2 ms
CFC 1000

PASSENGER HEAD Resultant (G's) vs TIME (ms)
Max: 56.6 G's
Tmax: 91.7 ms
Min: 0.0 G's
Tmin: 0.0 ms
CFC 1000
25MPH FRONTAL UNBELTED
2005 CHEVROLET TRAILBLAZER (C50106)
Test Date: 06/06/05
Speed: 24.7 mph (39.8 km/h)

PASSENGER HEAD X Velocity (kph) vs TIME (ms)
Max: 40.9 kph
Tmax: 58.0 ms
Min: -17.7 kph
Tmin: 131.1 ms
CFC 180

PASSENGER HEAD Y Velocity (kph) vs TIME (ms)
Max: 11.7 kph
Tmax: 151.7 ms
Min: -0.2 kph
Tmin: 68.6 ms
CFC 180

PASSENGER HEAD Z Velocity (kph) vs TIME (ms)
Max: 7.6 kph
Tmax: 300.0 ms
Min: -3.5 kph
Tmin: 123.5 ms
CFC 180
25MPH FRONTAL UNBELTED
2005 CHEVROLET TRAILBLAZER (C50106)

Test Date: 06/06/05
Speed: 24.7 mph (39.8 km/h)

PASSENGER NECK MX (Nm) vs TIME (ms)
Max: 7.6 Nm
Tmax: 122.4 ms
Min: -14.3 Nm
Tmin: 99.4 ms
CFC 600

PASSENGER NECK MY (Nm) vs TIME (ms)
Max: 28.8 Nm
Tmax: 84.5 ms
Min: -51.4 Nm
Tmin: 112.9 ms
CFC 600

PASSENGER NECK MZ (Nm) vs TIME (ms)
Max: 1.6 Nm
Tmax: 215.5 ms
Min: -7.3 Nm
Tmin: 98.3 ms
CFC 600

PASSENGER NECK MResultant (Nm) vs TIME (ms)
Max: 51.6 Nm
Tmax: 112.9 ms
Min: 0.0 Nm
Tmin: 0.0 ms
CFC 600
25MPH FRONTAL UNBELTED
2005 CHEVROLET TRAILBLAZER (C50106)

Test Date: 06/06/05
Speed: 24.7 mph (39.8 km/h)

PASSENGER CHEST X (G's) vs TIME (ms)
Max: 5.9 G's
Tmax: 109.8 ms
Min: -52.8 G's
Tmin: 87.4 ms
CFC 180

PASSENGER CHEST Y (G's) vs TIME (ms)
Max: 6.6 G's
Tmax: 89.6 ms
Min: -4.4 G's
Tmin: 64.0 ms
CFC 180

PASSENGER CHEST Z (G's) vs TIME (ms)
Max: 21.1 G's
Tmax: 86.1 ms
Min: -7.5 G's
Tmin: 47.2 ms
CFC 180

PASSENGER CHEST Resultant (G's) vs TIME (ms)
Max: 56.7 G's
Tmax: 87.2 ms
Min: 0.0 G's
Tmin: 0.0 ms
CFC 180
25MPH FRONTAL UNBELTED
2005 CHEVROLET TRAILBLAZER (C50106)

Test Date: 06/06/05
Speed: 24.7 mph (39.8 km/h)

PASSENGER CHEST X Velocity (kph) vs TIME (ms)
Max: 39.8 kph
Tmax: 0.0 ms
Min: -12.4 kph
Tmin: 104.0 ms
CFC 180

PASSENGER CHEST Y Velocity (kph) vs TIME (ms)
Max: 1.4 kph
Tmax: 97.3 ms
Min: -1.4 kph
Tmin: 72.1 ms
CFC 180

PASSENGER CHEST Z Velocity (kph) vs TIME (ms)
Max: 18.2 kph
Tmax: 300.0 ms
Min: -4.5 kph
Tmin: 62.2 ms
CFC 180

PASSENGER CHEST DISPLACEMENT (mm) vs TIME (ms)
Max: 2.4 mm
Tmax: 54.6 ms
Min: -7.8 mm
Tmin: 89.5 ms
CFC 600
25MPH FRONTAL UNBELTED
2005 CHEVROLET TRAILBLAZER (C50106)

Speed: 24.7 mph (39.8 km/h)
Test Date: 06/06/05

PASSENGER LEFT FEMUR (N) vs TIME (ms)
Max: 348.8 N
Tmax: 113.1 ms
Min: -6049.2 N
Tmin: 54.3 ms
CFC 600

PASSENGER RIGHT FEMUR (N) vs TIME (ms)
Max: 156.7 N
Tmax: 115.4 ms
Min: -4659.9 N
Tmin: 46.2 ms
CFC 600
25MPH FRONTAL UNBELTED
2005 CHEVROLET TRAILBLAZER (C50106)

Test Date: 06/06/05
Speed: 24.7 mph (39.8 km/h)

Drv. nij (NTF) (\(\phi\)) vs TIME (ms)
Max: 0.3
Tmax: 53.5 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600

Drv. nij (NTE) (\(\phi\)) vs TIME (ms)
Max: 0.3
Tmax: 58.8 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600

Drv. nij (NCF) (\(\phi\)) vs TIME (ms)
Max: 0.1
Tmax: 113.3 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600

Drv. nij (NCE) (\(\phi\)) vs TIME (ms)
Max: 0.1
Tmax: 143.7 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600
25MPH FRONTAL UNBELTED
2005 CHEVROLET TRAILBLAZER (C50106)

Test Date: 06/06/05
Speed: 24.7 mph (39.8 km/h)

Max: 0.3
Tmax: 82.3 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600

Max: 0.8
Tmax: 109.6 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600

Max: 0.2
Tmax: 191.2 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600

Max: 0.1
Tmax: 40.3 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600
25MPH FRONTAL UNBELTED
2005 CHEVROLET TRAILBLAZER (C50106)

Test Date: 06/06/05
Speed: 24.7 mph (39.8 km/h)

LEFT REAR SEAT CROSSMEMBER X (G's) vs TIME (ms)

Max: 3.1 G's
Tmax: 129.0 ms
Min: -43.1 G's
Tmin: 30.4 ms
CFC 60

LEFT REAR SEAT CROSSMEMBER X Velocity (kph) vs TIME (ms)

Max: 39.8 kph
Tmax: 0.0 ms
Min: -6.5 kph
Tmin: 90.4 ms
CFC 180

RIGHT REAR SEAT CROSSMEMBER X (G's) vs TIME (ms)

Max: 3.8 G's
Tmax: 103.1 ms
Min: -36.6 G's
Tmin: 33.2 ms
CFC 60

RIGHT REAR SEAT CROSSMEMBER X Velocity (kph) vs TIME (ms)

Max: 39.8 kph
Tmax: 0.0 ms
Min: -5.9 kph
Tmin: 94.9 ms
CFC 180
25MPH FRONTAL UNBELTED
2005 CHEVROLET TRAILBLAZER (C50106)

Test Date: 06/06/05
Speed: 24.7 mph (39.8 km/h)

TOP OF ENGINE X (G's) vs TIME (ms)
Max: 11.4 G's
Tmax: 73.3 ms
Min: -53.9 G's
Tmin: 27.9 ms
CFC 60

TOP OF ENGINE X Velocity (kph) vs TIME (ms)
Max: 39.8 kph
Tmax: 6.4 ms
Min: -5.6 kph
Tmin: 153.2 ms
CFC 180

BOTTOM OF ENGINE X (G's) vs TIME (ms)
No Valid Data After Approximately 40 msec.
Max: 9.6 G's
Tmax: 20.8 ms
Min: -40.4 G's
Tmin: 32.2 ms
CFC 60

BOTTOM OF ENGINE X Velocity (kph) vs TIME (ms)
No Valid Data After Approximately 40 msec.
Max: 39.8 kph
Tmax: 0.0 ms
Min: 18.0 kph
Tmin: 40.0 ms
CFC 180
25MPH FRONTAL UNBELTED
2005 CHEVROLET TRAILBLAZER (C50106)

Test Date: 06/06/05
Speed: 24.7 mph (39.8 km/h)

LEFT BRAKE CALIPER X (G's) vs TIME (ms)
Max: 21.5 G's
Tmax: 39.9 ms
Min: -58.5 G's
Tmin: 17.6 ms
CFC 60

LEFT BRAKE CALIPER X Velocity (kph) vs TIME (ms)
Max: 39.8 kph
Tmax: 6.9 ms
Min: -6.4 kph
Tmin: 84.8 ms
CFC 180

RIGHT BRAKE CALIPER X (G's) vs TIME (ms)
Max: 9.3 G's
Tmax: 33.0 ms
Min: -57.5 G's
Tmin: 14.4 ms
CFC 60

RIGHT BRAKE CALIPER X Velocity (kph) vs TIME (ms)
Max: 39.8 kph
Tmax: 0.0 ms
Min: -4.2 kph
Tmin: 129.2 ms
CFC 180
25MPH FRONTAL UNBELTED
2005 CHEVROLET TRAILBLAZER (C50106)

Test Date: 06/06/05
Speed: 24.7 mph (39.8 km/h)

INSTRUMENT PANEL X (G's) vs TIME (ms)
Max: 4.3 G's
Tmax: 80.4 ms
Min: -45.5 G's
Tmin: 33.5 ms
CFC 60

INSTRUMENT PANEL X Velocity (kph) vs TIME (ms)
Max: 39.8 kph
Tmax: 0.0 ms
Min: -12.8 kph
Tmin: 300.0 ms
CFC 180

TRUNK Z (G's) vs TIME (ms)
Max: 16.0 G's
Tmax: 14.7 ms
Min: -13.5 G's
Tmin: 30.7 ms
CFC 60

TRUNK Z Velocity (kph) vs TIME (ms)
Max: 4.1 kph
Tmax: 299.2 ms
Min: -2.9 kph
Tmin: 44.9 ms
CFC 180
25MPH FRONTAL UNBELTED
2005 CHEVROLET TRAILBLAZER (C50106)

Test Date: 06/06/05
Speed: 24.7 mph (39.8 km/h)

BARRIER - SUM ROW 1 (kN) vs TIME (ms)
Max: 1.9 kN
Tmax: 28.2 ms
Min: -4.0 kN
Tmin: 19.9 ms
CFC 60

BARRIER - SUM ROW 2 (kN) vs TIME (ms)
Max: 5.5 kN
Tmax: 10.1 ms
Min: -19.3 kN
Tmin: 36.3 ms
CFC 60

BARRIER - SUM ROW 3 (kN) vs TIME (ms)
Max: 5.8 kN
Tmax: 9.3 ms
Min: -35.1 kN
Tmin: 44.5 ms
CFC 60

BARRIER - SUM ROW 4 (kN) vs TIME (ms)
Max: 5.5 kN
Tmax: 8.3 ms
Min: -35.4 kN
Tmin: 58.7 ms
CFC 60
25MPH FRONTAL UNBELTED
2005 CHEVROLET TRAILBLAZER (C50106)

Test Date: 06/06/05
Speed: 24.7 mph (39.8 km/h)

Max: 0.6 kN
Tmax: 0.0 ms
Min: -89.9 kN
Tmin: 56.2 ms
CFC 60

Max: 1.6 kN
Tmax: 0.0 ms
Min: -362.8 kN
Tmin: 22.6 ms
CFC 60

Max: 3.1 kN
Tmax: 3.4 ms
Min: -99.8 kN
Tmin: 10.8 ms
CFC 60

Max: 4.0 kN
Tmax: 7.0 ms
Min: -9.2 kN
Tmin: 11.8 ms
CFC 60
25MPH FRONTAL UNBELTED
2005 CHEVROLET TRAILBLAZER (C50106)

Test Date: 06/06/05
Speed: 24.7 mph (39.8 km/h)

BARRIER - SUM ROW 9 (kN) vs TIME (ms)
Max: 6.5 kN
Tmax: 17.5 ms
Min: -8.2 kN
Tmin: 12.4 ms
CFC 60

BARRIER - TOTAL FORCE (kN) vs TIME (ms)
Max: 1.8 kN
Tmax: 0.0 ms
Min: -543.7 kN
Tmin: 20.6 ms
CFC 60
THE VEHICLE IMPACTED THE BARRIER 4 mm HIGHER THAN THE INITIAL TARGET.

BARRIER - ROWS 1 TO 9 (kN) vs Time (ms)

BARRIER - TOTAL FORCE (kN) vs TIME (ms)

Max: 1.8 kN
Tmax: -0.6 ms
Min: -543.7 kN
Tmin: 20.6 ms
CFC 60
APPENDIX B

LOW RISK TEST DATA
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LOW RISK DEPLOYMENT
2005 Chevrolet Trailblazer (C50106) (5TH P1)

Test Date: 04/27/05
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 125ms

5TH FEM. DRIVER HEAD X (G's) vs TIME (ms)
Max: 2.0 G's
Tmax: 104.1 ms
Min: -21.6 G's
Tmin: 7.8 ms
CFC 1000

5TH FEM. DRIVER HEAD Y (G's) vs TIME (ms)
Max: 3.3 G's
Tmax: 17.2 ms
Min: -4.0 G's
Tmin: 8.3 ms
CFC 1000

5TH FEM. DRIVER HEAD Z (G's) vs TIME (ms)
Max: 11.0 G's
Tmax: 8.3 ms
Min: -3.5 G's
Tmin: 7.6 ms
CFC 1000

5TH FEM. DRIVER HEAD Resultant (G's) vs TIME (ms)
Max: 21.8 G's
Tmax: 7.8 ms
Min: 0.0 G's
Tmin: 0.6 ms
CFC 1000
Injury Values Calculated between 0ms and 125ms

5TH FEM. DRIVER HEAD X Velocity (kph) vs TIME (ms)
Max: 0.0 kph
Tmax: 6.4 ms
Min: -8.3 kph
Tmin: 62.4 ms
CFC 180

5TH FEM. DRIVER HEAD Y Velocity (kph) vs TIME (ms)
Max: 0.1 kph
Tmax: 18.1 ms
Min: -0.6 kph
Tmin: 48.1 ms
CFC 180

5TH FEM. DRIVER HEAD Z Velocity (kph) vs TIME (ms)
Max: 5.0 kph
Tmax: 125.0 ms
Min: -0.0 kph
Tmin: 7.0 ms
CFC 180
Injury Values Calculated between 0ms and 125ms
Injury Values Calculated between 0ms and 125ms

5TH FEM. DRIVER NECK MX (Nm) vs TIME (ms)
Max: 2.7 Nm
Tmax: 49.8 ms
Min: -2.8 Nm
Tmin: 11.6 ms
CFC 600

5TH FEM. DRIVER NECK MY (Nm) vs TIME (ms)
Max: 17.4 Nm
Tmax: 30.2 ms
Min: -5.3 Nm
Tmin: 82.4 ms
CFC 600

5TH FEM. DRIVER NECK MZ (Nm) vs TIME (ms)
Max: 0.8 Nm
Tmax: 14.8 ms
Min: -0.3 Nm
Tmin: 37.0 ms
CFC 600

Drv. Occipital Condyle Moment (Nm) vs TIME (ms)
Max: 15.0 Nm
Tmax: 30.2 ms
Min: -6.1 Nm
Tmin: 88.8 ms
CFC 600
Injury Values Calculated between 0ms and 125ms

5TH FEM. DRIVER CHEST X (G's) vs TIME (ms)
Max: 0.9 G's
Tmax: 65.0 ms
Min: -7.4 G's
Tmin: 11.7 ms
CFC 180

5TH FEM. DRIVER CHEST Y (G's) vs TIME (ms)
Max: 0.8 G's
Tmax: 22.6 ms
Min: -1.0 G's
Tmin: 13.9 ms
CFC 180

5TH FEM. DRIVER CHEST Z (G's) vs TIME (ms)
Max: 3.5 G's
Tmax: 13.9 ms
Min: -0.9 G's
Tmin: 9.0 ms
CFC 180

5TH FEM. DRIVER CHEST Resultant (G's) vs TIME (ms)
Max: 7.6 G's
Tmax: 12.2 ms
Min: 0.0 G's
Tmin: 4.7 ms
CFC 180
Injury Values Calculated between 0ms and 125ms

5TH FEM. DRIVER CHEST X Velocity (kph) vs TIME (ms)
- Max: -0.0 kph
- Tmax: 0.1 ms
- Min: -3.3 kph
- Tmin: 49.9 ms
- CFC 180

5TH FEM. DRIVER CHEST Y Velocity (kph) vs TIME (ms)
- Max: 0.2 kph
- Tmax: 36.3 ms
- Min: -0.1 kph
- Tmin: 47.8 ms
- CFC 180

5TH FEM. DRIVER CHEST Z Velocity (kph) vs TIME (ms)
- Max: 2.0 kph
- Tmax: 125.0 ms
- Min: -0.0 kph
- Tmin: 10.5 ms
- CFC 180

5TH FEM. DRIVER CHEST DISPLACEMENT (mm) vs TIME (ms)
- Max: 0.5 mm
- Tmax: 118.9 ms
- Min: -2.7 mm
- Tmin: 13.9 ms
- CFC 600
Injury Values Calculated between 0ms and 125ms

5TH FEM. DRIVER LEFT FEMUR (N) vs TIME (ms)

Max: 104.0 N
Tmax: 37.2 ms
Min: -18.0 N
Tmin: 12.1 ms
CFC 600

5TH FEM. DRIVER RIGHT FEMUR (N) vs TIME (ms)

Max: 41.2 N
Tmax: 39.1 ms
Min: -24.6 N
Tmin: 14.1 ms
CFC 600
Injury Values Calculated between 0ms and 125ms

FIRE VOLTAGE #1 (Volts) vs TIME (ms)
- Max: 15.4 Volts
- Tmax: 1.3 ms
- Min: 1.2 Volts
- Tmin: 10.7 ms
- CFC 1000

FIRE CURRENT #1 (Amps) vs TIME (ms)
- Max: 2.3 Amps
- Tmax: 0.6 ms
- Min: 0.0 Amps
- Tmin: 10.7 ms
- CFC 1000

Channel data not found. 2nd STAGE NOT FIRED
- No Valid Data Collected

Channel data not found. 2nd STAGE NOT FIRED
- No Valid Data Collected
LOW RISK DEPLOYMENT
2005 Chevrolet Trailblazer (C50106) (5TH P1)

Test Date: 04/27/05
Speed: 0.0 mph (0.0 km/h)

Drv. nij (NTF) (τ) vs TIME SPECIAL CHS (ms)
Max: 0.1
Tmax: 11.5 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Drv. nij (NTE) (τ) vs TIME SPECIAL CHS (ms)
Max: 0.1
Tmax: 81.0 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Drv. nij (NCF) (τ) vs TIME SPECIAL CHS (ms)
Max: 0.1
Tmax: 36.6 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Drv. nij (NCE) (τ) vs TIME SPECIAL CHS (ms)
Max: 0.0
Tmax: 3.1 ms
Min: 0.0
Tmin: 0.7 ms
CFC 600
LOW RISK DEPLOYMENT
2005 Chevrolet Trailblazer (C50106) (5TH P2)

Test Date: 04/27/05
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 225ms

5TH FEM. DRIVER HEAD X (G's) vs TIME (ms)
-15
-12.5
-10
-7.5
-5
-2.5
0
2.5
5
-20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300
Max: 3.3 G's
Tmax: 79.7 ms
Min: -12.7 G's
Tmin: 24.4 ms
CFC 1000

5TH FEM. DRIVER HEAD Y (G's) vs TIME (ms)
-3
-2
-1
0
1
2
3
-20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300
Max: 2.9 G's
Tmax: 11.4 ms
Min: -2.3 G's
Tmin: 15.2 ms
CFC 1000

5TH FEM. DRIVER HEAD Z (G's) vs TIME (ms)
-5
0
5
10
15
20
-20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300
Max: 17.1 G's
Tmax: 12.6 ms
Min: -2.9 G's
Tmin: 21.4 ms
CFC 1000

5TH FEM. DRIVER HEAD Resultant (G's) vs TIME (ms)
-20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300
Max: 18.1 G's
Tmax: 12.7 ms
Min: 0.0 G's
Tmin: 1.0 ms
CFC 1000
LOW RISK DEPLOYMENT
2005 Chevrolet Trailblazer (C50106) (5TH P2)
Test Date: 04/27/05
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 225ms

5TH FEM. DRIVER HEAD X Velocity (kph) vs TIME (ms)
Max: 0.1 kph
Tmax: 10.2 ms
Min: -12.2 kph
Tmin: 58.3 ms
CFC 180

5TH FEM. DRIVER HEAD Y Velocity (kph) vs TIME (ms)
Max: 0.5 kph
Tmax: 84.4 ms
Min: -0.6 kph
Tmin: 225.0 ms
CFC 180

5TH FEM. DRIVER HEAD Z Velocity (kph) vs TIME (ms)
Max: 9.1 kph
Tmax: 225.0 ms
Min: -0.0 kph
Tmin: 7.2 ms
CFC 180
LOW RISK DEPLOYMENT
2005 Chevrolet Trailblazer (C50106) (5TH P2)
Test Date: 04/27/05
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 225ms

5TH FEM. DRIVER NECK FX (N) vs TIME (ms)
Max: 43.4 N
Tmax: 26.4 ms
Min: -174.4 N
Tmin: 19.1 ms
CFC 1000

5TH FEM. DRIVER NECK FY (N) vs TIME (ms)
Max: 17.4 N
Tmax: 25.5 ms
Min: -37.8 N
Tmin: 14.8 ms
CFC 1000

5TH FEM. DRIVER NECK FZ (N) vs TIME (ms)
Max: 652.1 N
Tmax: 12.3 ms
Min: -42.0 N
Tmin: 8.9 ms
CFC 1000

5TH FEM. DRIVER NECK FResultant (N) vs TIME (ms)
Max: 668.1 N
Tmax: 12.3 ms
Min: 1.1 N
Tmin: 3.8 ms
CFC 1000
Injury Values Calculated between 0ms and 225ms

**5TH FEM. DRIVER NECK MX (Nm) vs TIME (ms)**
- Max: 3.3 Nm
- Tmax: 15.0 ms
- Min: -2.2 Nm
- Tmin: 27.3 ms

**5TH FEM. DRIVER NECK MY (Nm) vs TIME (ms)**
- Max: 15.7 Nm
- Tmax: 29.6 ms
- Min: -14.7 Nm
- Tmin: 16.0 ms

**5TH FEM. DRIVER NECK MZ (Nm) vs TIME (ms)**
- Max: 4.5 Nm
- Tmax: 47.5 ms
- Min: -2.2 Nm
- Tmin: 102.3 ms

**Drv. Occipital Condyle Moment (Nm) vs TIME (ms)**
- Max: 15.3 Nm
- Tmax: 29.6 ms
- Min: -11.7 Nm
- Tmin: 16.0 ms
Injury Values Calculated between 0ms and 225ms

5TH FEM. DRIVER CHEST X (G's) vs TIME (ms)
- Max: 32.9 G's
- Tmax: 16.9 ms
- Min: -34.4 G's
- Tmin: 11.8 ms
- CFC 180

5TH FEM. DRIVER CHEST Y (G's) vs TIME (ms)
- Max: 4.0 G's
- Tmax: 17.2 ms
- Min: -2.9 G's
- Tmin: 12.8 ms
- CFC 180

5TH FEM. DRIVER CHEST Z (G's) vs TIME (ms)
- Max: 4.9 G's
- Tmax: 17.6 ms
- Min: -1.2 G's
- Tmin: 22.7 ms
- CFC 180

5TH FEM. DRIVER CHEST Resultant (G's) vs TIME (ms)
- Max: 34.4 G's
- Tmax: 11.8 ms
- Min: 0.0 G's
- Tmin: 1.7 ms
- CFC 180
Injury Values Calculated between 0ms and 225ms

5TH FEM. DRIVER CHEST X Velocity (kph) vs TIME (ms)
Max: 0.6 kph
Tmax: 225.0 ms
Min: -6.9 kph
Tmin: 43.1 ms
CFC 180

5TH FEM. DRIVER CHEST Y Velocity (kph) vs TIME (ms)
Max: 0.3 kph
Tmax: 41.7 ms
Min: -0.4 kph
Tmin: 102.3 ms
CFC 180

5TH FEM. DRIVER CHEST Z Velocity (kph) vs TIME (ms)
Max: 3.6 kph
Tmax: 225.0 ms
Min: -0.0 kph
Tmin: 7.5 ms
CFC 180

5TH FEM. DRIVER CHEST DISPLACEMENT (mm) vs TIME (ms)
Max: 0.3 mm
Tmax: 6.1 ms
Min: -13.5 mm
Tmin: 13.5 ms
CFC 600
LOW RISK DEPLOYMENT
2005 Chevrolet Trailblazer (C50106) (5TH P2)

Test Date: 04/27/05
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 225ms

5TH FEM. DRIVER LEFT FEMUR (N) vs TIME (ms)
Max: 173.9 N
Tmax: 18.7 ms
Min: -25.2 N
Tmin: 159.6 ms
CFC 600

5TH FEM. DRIVER RIGHT FEMUR (N) vs TIME (ms)
Max: 229.8 N
Tmax: 18.9 ms
Min: -11.4 N
Tmin: 11.1 ms
CFC 600
LOW RISK DEPLOYMENT
2005 Chevrolet Trailblazer (C50106) (5TH P2)

Test Date: 04/27/05
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 225ms

FIRE VOLTAGE #1 (Volts) vs TIME (ms)
- Max: 16.5 Volts
- Tmax: 0.6 ms
- Min: 1.3 Volts
- Tmin: 100.5 ms
- CFC 1000

FIRE CURRENT #1 (Amps) vs TIME (ms)
- Max: 2.0 Amps
- Tmax: 0.3 ms
- Min: -0.0 Amps
- Tmin: 153.8 ms
- CFC 1000

FIRE VOLTAGE #2 (Volts) vs TIME (ms)
- Max: 16.5 Volts
- Tmax: 100.5 ms
- Min: -0.1 Volts
- Tmin: 99.7 ms
- CFC 1000

FIRE CURRENT #2 (Amps) vs TIME (ms)
- Max: 1.8 Amps
- Tmax: 100.1 ms
- Min: -0.1 Amps
- Tmin: 99.7 ms
- CFC 1000
LOW RISK DEPLOYMENT
2005 Chevrolet Trailblazer (C50106) (5TH P2)
Test Date: 04/27/05
Speed: 0.0 mph (0.0 km/h)

Drv. nij (NTF) () vs TIME SPECIAL CHS (ms)
Max: 0.2
Tmax: 28.4 ms
Min: 0.0
Tmin: 0.8 ms
CFC 600

Drv. nij (NTE) () vs TIME SPECIAL CHS (ms)
Max: 0.3
Tmax: 12.7 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Drv. nij (NCF) () vs TIME SPECIAL CHS (ms)
Max: 0.1
Tmax: 52.4 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600

Drv. nij (NCE) () vs TIME SPECIAL CHS (ms)
Max: 0.1
Tmax: 180.4 ms
Min: 0.0
Tmin: 0.1 ms
CFC 600
APPENDIX C

CRASH TEST PHOTOGRAPHS
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<td>Pre-Test Passenger Dummy Seat Position</td>
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<td>Post-Test Passenger Dummy Seat Position</td>
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<td>Pre-Test Passenger Dummy Feet Position</td>
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<td>Post-Test Passenger Dummy Feet Position</td>
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<td>Pre-Test Passenger Side Knee Bolster View</td>
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<td>Post-Test Passenger Dummy Head Contact (visor)</td>
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<td>Post-Test Passenger Dummy Airbag Contact</td>
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<td>Rollover 90 Degrees</td>
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<td>Rollover 180 Degrees</td>
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<td>Rollover 270 Degrees</td>
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<td>Temperature Plot</td>
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<tr>
<td>67</td>
<td>Vehicle in Relation to The Load Cell Grid</td>
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</table>
Vehicle Certification Label

GVWR
2518KG(5550LB)

GAWR FRT
1338KG(2950LB)

GAWR RR
1452KG(3200LB)

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

1GNDS13SX52128148 TYPE: M.P.V.

MODEL: S15506

SPMC TIRE SIZE SPEED RTG RIM COLD TIRE PRESSURE
FRT P245/65R17 S 17X7J 210KPA(30PSI)
RR P245/65R17 S 17X7J 240KPA(35PSI)
SPA P245/65R17 S 17X7J 240KPA(35PSI)

SEE OWNER’S MANUAL FOR MORE INFORMATION.
# Tire and Loading Information

**Seating Capacity:**
- Total: 5
- Front: 2
- Center: 0
- Rear: 3

The combined weight of occupants and cargo should never exceed 521 kg or 1148 lbs.

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<th>Original Tire Size</th>
<th>Cold Tire Inflation Pressure</th>
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<td>P245/65R17</td>
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<tr>
<td>P245/65R17</td>
<td>Rear: 240 kPa, 35 PSI</td>
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<tr>
<td>P245/65R17</td>
<td>Spare: 240 kPa, 35 PSI</td>
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See Owner’s Manual for Additional Information
Pre-Test Front View of Test Vehicle
Post-Test Front View of Test Vehicle
Pre-Test Left Side View of Test Vehicle
Pre-Test Right Side View of Test Vehicle
Post-Test Right Front Three-Quarter View of Test Vehicle
Pre-Test Left Front Three-Quarter 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 Left Rear Three-Quarter View of Test Vehicle
Pre-Test Rear View of Test Vehicle
Post-Test Rear View of Test Vehicle
Pre-Test Fuel Filler Cap View
Post-Test Fuel Filler Cap View
Post-Test Front Underbody View
Post-Test Mid Underbody 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)
Pre-Test Driver Dummy Position Left Side View
Post-Test Driver Dummy Position Left Side View
Pre-Test Driver Dummy Position Left Side View (Door Open)
Pre-Test Driver Dummy Seat Position
Post-Test Driver Dummy Seat 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 (visor)
Post-Test Driver Dummy Head Contact (headrest)
Post-Test Driver Dummy Airbag Contact
Pre-Test Passenger Dummy Front View (head position)
Post-Test Passenger Dummy Front View (head position)
Post-Test Passenger Dummy Position Right Side View
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 (visor)
Post-Test Passenger Dummy Knee Contact
Post-Test Passenger Dummy Airbag Contact
Rollover 270 Degrees
Rollover 360 Degrees
Vehicle Impact
Vehicle in Relation to The Load Cell Grid
APPENDIX D

LOW RISK PHOTOGRAPHS
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<td>Post-Test 5th Fem. P2 Driver Dummy Head Contact View (visor)</td>
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<td>Driver Air Bag Geometric Center (2005 Chevrolet Trailblazer)</td>
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5th % Low Risk Deployment Position 1
C50106  4-27-05
2005 Chevrolet Trailblazer
MGA Research Corp.

Post-Test 5th Fem. P1 Driver Dummy Left Side View
Pre-Test 5th Fem. P1 Driver Dummy Left Side View (Door Open)
Post-Test 5th Fem. P1 Driver Dummy Right Side View (Door Open)
Pre-Test 5th Fem. P1 Driver Dummy Left Side Head Position View
Post-Test 5th Fem. P1 Driver Dummy Left Side Head Position View
Pre-Test 5th Fem. P1 Driver Dummy Right Side Mid Position View
Pre-Test 5th Fem. P1 Driver Dummy Right Side Knee Position View
Post-Test 5th Fem. P1 Driver Dummy Right Side Knee Position View
Post-Test 5th Fem. P1 Driver Dummy Airbag Right View
Pre-Test 5th Fem. P2 Driver Dummy Right Side View (Door Open)
Pre-Test 5th Fem. P2 Driver Dummy Right Side Head Position View
Pre-Test 5th Fem. P2 Driver Dummy Right Side Mid Position View
Pre-Test 5th Fem. P2 Driver Dummy Left Side Knee Position View
Post-Test 5th Fem. P2 Driver Dummy Right Side Knee Position View
Driver Air Bag Geometric Center (2005 Chevrolet Trailblazer)
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SUPPRESSION PHOTOGRAPHS
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DOT/NHTSA 208 Suppression Test – 2005 Chevrolet Trailblazer (C50106)
Newborn  Section A  Car Bed

Cosco Dream Ride Car Bed With Belt, Forward Seat Track
Cosco Dream Ride Car Bed With Belt, Middle Seat Track

Unbelted 5th Percentile Female Reactivation, Forward Seat Track
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12 Month Section B Rear Facing CRS

Britax Handle With Care 191 With Belt, Forward Seat Track, Handle Down

Britax Handle With Care 191 With Belt, Middle Seat Track, Handle Down

Britax Handle With Care 191 With Belt, Rearward Seat Track, Handle Down

Britax Handle With Care 191 Unbelted, Forward Seat Track, Handle Down
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12 Month Section B Rear Facing CRS

- Britax Handle With Care 191 Unbelted, Middle Seat Track, Handle Down
- Britax Handle With Care 191 Fwd Facing Unbelted, Forward Seat Track, Handle Down
- Britax Handle With Care 191 Unbelted, Rearward Seat Track, Handle Down
- Britax Handle With Care 191 Fwd Facing Unbelted, Middle Seat Track, Handle Down
Britax Handle With Care 191 Fwd Facing Unbelted, Rearward Seat Track, Handle Down

Unbelted 5th Percentile Female Reactivation, Middle Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Chevrolet Trailblazer (C50106)
12 Month Section B Rear Facing CRS

Evenflo First Choice 204 With Belt, Middle Seat Track, Handle Up
Evenflo First Choice 204 With Belt, Rearward Seat Track, Handle Up
Evenflo First Choice 204 Unbelted, Middle Seat Track, Handle Up
Evenflo First Choice 204 Unbelted, Rearward Seat Track, Handle Up
Graco Infant W/ Base With Belt, Forward Seat Track, Handle Up

Graco Infant W/ Base With Belt, Middle Seat Track, Handle Up

Graco Infant W/ Base With Belt, Rearward Seat Track, Handle Down

Graco Infant W/ Base Unbelted, Forward Seat Track, Handle Up
Graco Infant W/ Base Unbelted, Middle Seat Track, Handle Up
Graco Infant W/ Base Unbelted, Rearward Seat Track, Handle Down
Graco Infant W/ Base Fwd Facing Unbelted, Forward Seat Track, Handle Up
Graco Infant W/ Base Fwd Facing Unbelted, Middle Seat Track, Handle Up
DOT/NHTSA 208 Suppression Test – 2005 Chevrolet Trailblazer (C50106)
12 Month Section B Rear Facing CRS

- Graco Infant W/O Base Unbelted, Forward Seat Track, Handle Up
- Graco Infant W/O Base Unbelted, Middle Seat Track, Handle Up
- Graco Infant W/O Base Unbelted, Rearward Seat Track, Handle Down
- Graco Infant W/O Base Fwd Facing Unbelted, Forward Seat Track, Handle Up
DOT/NHTSA 208 Suppression Test – 2005 Chevrolet Trailblazer (C50106)
12 Month Section C Forward Facing Convertible

Britax Roundabout 161 Fwd Facing With Belt, Forward Seat Track

Britax Roundabout 161 Fwd Facing With Belt, Middle Seat Track

Britax Roundabout 161 Fwd Facing With Belt, Rearward Seat Track

Britax Roundabout 161 Fwd Facing Unbelted, Forward Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Chevrolet Trailblazer (C50106)
12 Month Section C Forward Facing Convertible

Britax Roundabout 161 Fwd Facing Unbelted, Middle Seat Track

Britax Roundabout 161 Fwd Facing Unbelted, Rearward Seat Track

Britax Roundabout 161 Rear Facing With Belt, Forward Seat Track

Britax Roundabout 161 Rear Facing With Belt, Middle Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Chevrolet Trailblazer (C50106)
12 Month Section C Forward Facing Convertible

Britax Roundabout 161 Rear Facing With Belt, Rearward Seat Track
Britax Roundabout 161 Rear Facing Unbelted, Forward Seat Track
Britax Roundabout 161 Rear Facing Unbelted, Middle Seat Track
Britax Roundabout 161 Rear Facing Unbelted, Rearward Seat Track
Unbelted 5th Percentile Female Reactivation,
Forward Seat Track
Century Encore Fwd Facing With Belt, Forward Seat Track

Century Encore Fwd Facing With Belt, Middle Seat Track

Century Encore Fwd Facing With Belt, Rearward Seat Track

Century Encore Fwd Facing Unbelted, Forward Seat Track
Century Encore Fwd Facing Unbelted, Middle Seat Track

Century Encore Fwd Facing Unbelted, Rearward Seat Track

Century Encore Rear Facing With Belt, Forward Seat Track

Century Encore Rear Facing With Belt, Middle Seat Track
Century Encore Rear Facing With Belt, Rearward Seat Track
Century Encore Rear Facing Unbelted, Rearward Seat Track
Century Encore Rear Facing Unbelted, Forward Seat Track
Century Encore Rear Facing Unbelted, Middle Seat Track
Unbelted 5th Percentile Female Reactivation, Rearward Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Chevrolet Trailblazer (C50106)
12 Month Section C Forward Facing Convertible

Evenflo Medallion 254 Fwd Facing With Belt, Forward Seat Track

Evenflo Medallion 254 Fwd Facing With Belt, Middle Seat Track

Evenflo Medallion 254 Fwd Facing With Belt, Rearward Seat Track

Evenflo Medallion 254 Fwd Facing Unbelted, Forward Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Chevrolet Trailblazer (C50106)
12 Month Section C Forward Facing Convertible

Evenflo Medallion 254 Fwd Facing Unbelted, Middle Seat Track
Evenflo Medallion 254 Fwd Facing Unbelted, Rearward Seat Track
Evenflo Medallion 254 Rear Facing With Belt, Forward Seat Track
Evenflo Medallion 254 Rear Facing With Belt, Middle Seat Track
Unbelted 5th Percentile Female Reactivation, Forward Seat Track
3-Year-Old Fwd Facing Britax Roundabout Belted,
Forward Seat Track

3-Year-Old Fwd Facing Britax Roundabout Belted,
Middle Seat Track

3-Year-Old Fwd Facing Britax Roundabout Belted,
Rearward Seat Track

Unbelted 5th Percentile Female Reactivation,
Middle Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Chevrolet Trailblazer (C50106)

3 Year Old  Section C  Forward Facing Convertible CRS

- 3-Year-Old Fwd Facing Century Encore Belted, Forward Seat Track
- 3-Year-Old Fwd Facing Century Encore Belted, Middle Seat Track
- 3-Year-Old Fwd Facing Century Encore Belted, Rearward Seat Track
- Unbelted 5th Percentile Female Reactivation, Middle Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Chevrolet Trailblazer (C50106)

3 Year Old Section C Forward Facing Convertible CRS

3-Year-Old Fwd Facing Evenflo Medallion Belted, Forward Seat Track

3-Year-Old Fwd Facing Evenflo Medallion Belted, Middle Seat Track

3-Year-Old Fwd Facing Evenflo Medallion Belted, Rearward Seat Track

Unbelted 5th Percentile Female Reactivation, Rearward Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Chevrolet Trailblazer (C50106)
3 Year Old  Section D  Forward Facing Toddler  Belt Positioning Booster Seat

3-Year-Old Century Next Step Belted, Forward Seat Track

3-Year-Old Century Next Step Belted, Middle Seat Track

3-Year-Old Century Next Step Belted, Rearward Seat Track

3-Year-Old Century Next Step Cinched With Harness, Forward Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Chevrolet Trailblazer (C50106)

3 Year Old  Section D  Forward Facing Toddler  Belt Positioning Booster Seat

3-Year-Old Century Next Step Cinched With Harness, Middle Seat Track

3-Year-Old Century Next Step Cinched With Harness, Rearward Seat Track

Unbelted 5th Percentile Female Reactivation, Rearward Seat Track
3 Year Old Section D Forward Facing Toddler Belt Positioning Booster Seat

3-Year-Old Cosco High Back Booster Belted, Forward Seat Track

3-Year-Old Cosco High Back Booster Belted, Middle Seat Track

3-Year-Old Cosco High Back Booster Belted, Rearward Seat Track

3-Year-Old Cosco High Back Booster Cinched With Harness, Forward Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Chevrolet Trailblazer (C50106)

3 Year Old Section D Forward Facing Toddler Belt Positioning Booster Seat

3-Year-Old Cosco High Back Booster Cinched With Harness, Middle Seat Track

3-Year-Old Cosco High Back Booster Cinched With Harness, Rearward Seat Track

Unbelted 5th Percentile Female Reactivation, Forward Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Chevrolet Trailblazer (C50106)

3 Year Old

No CRS

3-Year-Old Unbelted, Middle Seat Track, Position 2

3-Year-Old Unbelted, Middle Seat Track, Position 3

3-Year-Old Unbelted, Middle Seat Track, Position 4

3-Year-Old Unbelted, Middle Seat Track, Position 5
DOT/NHTSA 208 Suppression Test – 2005 Chevrolet Trailblazer (C50106)

3 Year Old  No CRS

3-Year-Old Unbelted, Middle Seat Track, Position 6

3-Year-Old Unbelted, Middle Seat Track, Position 7

3-Year-Old Unbelted, Rearward Seat Track, Position 1

3-Year-Old Unbelted, Rearward Seat Track, Position 2
DOT/NHTSA 208 Suppression Test – 2005 Chevrolet Trailblazer (C50106)

3 Year Old  No CRS

3-Year-Old Unbelted, Rearward Seat Track, Position 3

3-Year-Old Unbelted, Rearward Seat Track, Position 4

3-Year-Old Unbelted, Rearward Seat Track, Position 5

3-Year-Old Unbelted, Rearward Seat Track, Position 6
DOT/NHTSA 208 Suppression Test – 2005 Chevrolet Trailblazer (C50106)

3 Year Old  No CRS

3-Year-Old Unbelted, Rearward Seat Track, Position 7

Unbelted 5th Percentile Female Reactivation, Rearward Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Chevrolet Trailblazer (C50106)

6 Year Old  No CRS

6-Year-Old Unbelted, Forward Seat Track, Position 1

6-Year-Old Unbelted, Forward Seat Track, Position 2

6-Year-Old Unbelted, Forward Seat Track, Position 3

6-Year-Old Unbelted, Forward Seat Track, Position 4
DOT/NHTSA 208 Suppression Test – 2005 Chevrolet Trailblazer (C50106)

6 Year Old  No CRS

6-Year-Old Unbelted, Forward Seat Track, Position 4, View 2

6-Year-Old Unbelted, Middle Seat Track, Position 1

6-Year-Old Unbelted, Middle Seat Track, Position 2

6-Year-Old Unbelted, Middle Seat Track, Position 3
DOT/NHTSA 208 Suppression Test – 2005 Chevrolet Trailblazer (C50106)
6 Year Old  No CRS

6-Year-Old Unbelted, Middle Seat Track, Position 4

6-Year-Old Unbelted, Middle Seat Track, Position 4, View 2

6-Year-Old Unbelted, Rearward Seat Track, Position 1

6-Year-Old Unbelted, Rearward Seat Track, Position 2
APPENDIX F

INSTRUMENTATION CALIBRATION
### INSTRUMENTS FOR DRIVER DUMMY NO. 507

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Serial No.</th>
<th>Manufacturer</th>
<th>Calibration Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head X</td>
<td>J14007</td>
<td>Endevco</td>
<td>02/02/05</td>
</tr>
<tr>
<td>Head Y</td>
<td>J13424</td>
<td>Endevco</td>
<td>02/02/05</td>
</tr>
<tr>
<td>Head Z</td>
<td>AN9E3</td>
<td>Endevco</td>
<td>02/02/05</td>
</tr>
<tr>
<td>Neck Load Cell</td>
<td>252</td>
<td>Denton</td>
<td>05/02/05</td>
</tr>
<tr>
<td>Chest X</td>
<td>J10431</td>
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<td>Chest Y</td>
<td>J13630</td>
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<tr>
<td>Chest Z</td>
<td>J33415</td>
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<td>02/02/05</td>
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<tr>
<td>Chest Displacement</td>
<td>507</td>
<td>Servo</td>
<td>05/24/05</td>
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<tr>
<td>Left Femur Load Cell</td>
<td>9426</td>
<td>GSE</td>
<td>02/14/05</td>
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<td>Right Femur Load Cell</td>
<td>9425</td>
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### INSTRUMENTS FOR PASSENGER DUMMY NO. 510

<table>
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<tbody>
<tr>
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<td>C15-Z02</td>
<td>Entran</td>
<td>03/11/05</td>
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<tr>
<td>Head Y</td>
<td>A12-Z12</td>
<td>Entran</td>
<td>03/11/05</td>
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<td>Head Z</td>
<td>C17-J01</td>
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<td>03/11/05</td>
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<tr>
<td>Neck Load Cell</td>
<td>606</td>
<td>Denton</td>
<td>05/17/05</td>
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<td>Chest X</td>
<td>J13943</td>
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<td>Chest Y</td>
<td>AGTY6</td>
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<td>Chest Z</td>
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<tr>
<td>Left Femur Load Cell</td>
<td>950</td>
<td>GSE</td>
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<tr>
<td>Right Femur Load Cell</td>
<td>959</td>
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## INSTRUMENTS FOR LOW RISK 5\textsuperscript{TH} FEMALE DUMMY NO. 505 (P1)

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<tbody>
<tr>
<td>Head X</td>
<td>J12425</td>
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<tr>
<td>Head Y</td>
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## INSTRUMENTS FOR LOW RISK 5\textsuperscript{TH} FEMALE DUMMY NO. 516 (P2)

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<tbody>
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<td>Head Y</td>
<td>C09-Y02</td>
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<td>Head Z</td>
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<td>Neck Load Cell</td>
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<td>Chest X</td>
<td>P27024</td>
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<tr>
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## VEHICLE INSTRUMENTS

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<tbody>
<tr>
<td>Left Rear Seat Crossmember X</td>
<td>B19-Z13</td>
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<tr>
<td>Right Rear Seat Crossmember X</td>
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<tr>
<td>Top of Engine X</td>
<td>C06-L02</td>
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<tr>
<td>Bottom of Engine X</td>
<td>D03-Z25</td>
<td>04/25/05</td>
</tr>
<tr>
<td>Left Brake Caliper X</td>
<td>I16-B06</td>
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<td>Right Brake Caliper X</td>
<td>C09-Y04</td>
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<td>Instrument Panel X</td>
<td>C09-Y07</td>
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</tr>
<tr>
<td>Trunk Z</td>
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