This final test report was prepared for the U.S. Department of Transportation, National Highway Traffic Safety Administration, in response to Contract Number DTNH22-08-D-00086.

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Prepared by: _____________________________ Date:  September 14, 2010
Jeff Lewandowski, Project Engineer

Reviewed by: _____________________________ Date:  September 14, 2010
David Winkelbauer, Facility Director

FINAL REPORT ACCEPTED BY OVSC:

Accepted By: _____________________________

Acceptance Date:  ___________________________
Compliance tests were conducted on the subject 2009 Mazda 6 in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP208-14 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 TESTS

This Federal Motor Vehicle Safety Standard 208 compliance test is part of a program conducted for the National Highway Traffic Safety Administration (NHTSA) by MGA Research Corporation (MGA) under Contract No.: DTNH22-08-D-00086. The purpose of this test was to determine whether the subject vehicle, a 2009 Mazda 6, NHTSA No.: C95402, 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.: TP208-14 dated April 16, 2008.
SECTION 2
TESTS PERFORMED

Test Vehicle: 2009 Mazda 6
Test Program: FMVSS 208 Compliance
NHTSA No.: C95402
Test Dates: 3/25/09 - 5/7/09

The following checked items indicate the tests that were performed:

1. Rear seating position seat belts (S4.1.4.2(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 (S7.4.3)
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. Air bag suppression telltale (S19.2.2)
12. Suppression tests with 12-month-old CRABI dummy (Part 572, Subpart R)
13. Suppression tests with Newborn infant (Part 572, Subpart K)
14. Suppression tests with 3-year-old dummy (Part 572, Subpart P)
15. Suppression tests with 6-year-old dummy (Part 572, Subpart N)
16. Test of Reactivation of the passenger air bag system with an unbelted 5th percentile female dummy
17. Low risk deployment test with 12-month-old dummy (Part 572, Subpart R)
18. Low risk deployment test with 3-year-old dummy (Part 572, Subpart P)
19. Low risk deployment test with 6-year-old dummy (Part 572, Subpart N)
20. Low risk deployment test with 5th female dummy (Part 572, Subpart O)
21. 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))
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 digital video.

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

**Test Vehicle:** 2009 Mazda 6  
**Test Program:** FMVSS 208 Compliance  
**NHTSA No.:** C95402  
**Test Date:** 4/21/09  

### 5th Percentile Female Low Risk Deployments

#### 5th Percentile Female SN 505 Position 1 (Chin On Module) 4/21/09

<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>12</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.8</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>38.8</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>7.4</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.2</td>
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<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>10.6</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>2.1</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2070 N</td>
<td>1236</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>314</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>9</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>6</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>78</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>62</td>
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Second stage fire time of 100 ms; Injuries calculated on 0 ms to 225 ms

#### 5th Percentile Female SN 505 Position 2 (Chin On Rim) 4/21/09

<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>24</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>13.2</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>80.9</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>17.7</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>89.8</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2070 N</td>
<td>548</td>
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<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>129</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>20</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>16</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>188</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>166</td>
</tr>
</tbody>
</table>

Second stage fire time of 100 ms; Injuries calculated on 0 ms to 225 ms
SECTION 3
INJURY RESULT SUMMARY FOR FMVSS 208 TESTS

Test Vehicle: 2009 Mazda 6  
Test Program: FMVSS 208 Compliance  
NHTSA No.: C95402  
Test Date: 5/7/09

40 kmph Frontal Crash

Impact Angle: Zero degrees

Belted Dummies: Yes

No

Speed Range: 0 to 40 kmph

32 to 40 kmph

0 to 48 kmph

0 to 56 kmph

Test Speed: 39.9 kmph

Test Weight: 1606.2 kg

Driver Dummy: 5th female

50th male

Passenger Dummy: 5th female

50th male

5th Percentile Female Frontal Crash Test

Vehicles certified to S16.1(a)(1), S16.1(a)(2), S16.1(b), or S18.1

<table>
<thead>
<tr>
<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Driver</th>
<th>Passenger</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIC15</td>
<td>700</td>
<td>50</td>
<td>165</td>
</tr>
<tr>
<td>$N_{\text{Ne}}$</td>
<td>1.0</td>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td>$N_{\text{Ne}}$</td>
<td>0.1</td>
<td>0.1</td>
<td>0.3</td>
</tr>
<tr>
<td>$N_{\text{Ne}}$</td>
<td>1.0</td>
<td>0.4</td>
<td>0.3</td>
</tr>
<tr>
<td>$N_{\text{Ne}}$</td>
<td>1.0</td>
<td>0.1</td>
<td>0.7</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2620 N</td>
<td>1135</td>
<td>322</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>1368</td>
<td>594</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>45</td>
<td>39</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>20</td>
<td>7</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>3244</td>
<td>3498</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>2559</td>
<td>3642</td>
</tr>
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</table>
A blanket and visor were not used in the suppression testing because they did not affect the sensing system used on the vehicle.

There was no right-hand side high speed video for the 5th position 2 low risk deployment conducted on 4/21/09.
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<th>Test Vehicle:</th>
<th>2009 Mazda 6</th>
<th>NHTSA No.:</th>
<th>C95402</th>
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<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
<td>Test Dates:</td>
<td>3/25/09 - 5/7/09</td>
</tr>
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DATA SHEET 1

COTR VEHICLE WORK ORDER

Test Vehicle: 2009 Mazda 6  
Test Program: FMVSS 208 Compliance  
NHTSA No.: C95402  
Test Dates: 3/25/09 - 5/7/09

COTR Signature: Brian Smith

Test to be performed for this vehicle are checked below:

1. Rear Seating Position Seat Belts  
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 (S7.4.3)  
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. Air bag suppression telltale (S19.2.2)  
12. Suppression tests with 12-month-old CRABI dummy (Part 572, Subpart R) using the following indicated child restraints (mid-height seat position):

   - Section B – Rear Facing (unbelted and belted rear facing, unbelted forward facing):
     - Britax Handle with Care 191
     - Century Assura 4553
     - Century Smart Fit 4543
     - Cosco Arriva 02727
     - Cosco Opus 35 02603
     - Evenflo Discovery Adjust Right 212
     - Evenflo First Choice 204
     - Graco Infant 8457
       - Full Rearward
       - Full Rearward
       - Full Rearward
       - Full Rearward
       - Full Rearward
       - Full Rearward
       - Full Rearward
       - Full Rearward
       - Full Rearward

   - Section C – Convertible (unbelted and belted rear facing, unbelted and belted forward facing):
     - Britax Roundabout 161
     - Century Encore 4612
     - Century STE 1000 4416
     - Cosco Olympian 02803
     - Cosco Touriva 02519
     - Evenflo Horizon V 425
     - Evenflo Medallion 254
       - Full Rearward
       - Full Rearward
       - Full Rearward
       - Full Rearward
       - Full Rearward
       - Full Rearward
       - Full Rearward

13. Suppression tests with newborn infant (Part 572, Subpart K) using the following indicated child restraints (mid-height seat position):

   - Section A – Car Bed (Belted):
     - Cosco Dream Ride 02-719
       - Full Rearward
       - Full Rearward
       - Full Rearward

14. Suppression tests with 3-year-old dummy (Part 572, Subpart P) using the following indicated child restraints where a child restraint is required (mid-height seat position):
Section C – Convertible (Belted forward-facing)

- 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

Section D – Toddler/Belt Positioning Booster (Belted)

- 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

15. Suppression tests with representative 3-year-old child using the following indicated child restraints where a child restraint is required (mid-height position). (Appendix H, Data Sheet 19H and 20H)

Section C – Convertible (Belted forward-facing)

- 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

Section D – Toddler/Belt Positioning Booster (Belted)

- 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

16. Suppression tests with 3-year-old dummy (Part 572, Subpart P) in the following positions (mid-height seat position):

- Sitting on seat with back against seat back (S22.2.2.1)
  - Full Rearward
  - Mid Position
  - Full Forward

- Sitting on seat with back against reclined seat back (S22.2.2.2)
  - Full Rearward
  - Mid Position
  - Full Forward

- Sitting on seat with back not against seat back (S22.2.2.3)
  - Full Rearward
  - Mid Position
  - Full Forward

- Sitting on seat edge, spine vertical, hands by the child’s side (S22.2.2.4)
  - Full Rearward
  - Mid Position
  - Full Forward

- Standing on seat, facing forward (S22.2.2.5)
  - Full Rearward
  - Mid Position
  - Full Forward

- Kneeling on seat facing forward (S22.2.2.6)
  - Full Rearward
  - Mid Position
  - Full Forward

- Kneeling on seat facing rearward (S22.2.2.7)
  - Full Rearward
  - Mid Position
  - Full Forward

- Lying on seat (S22.2.2.8)
  - Full Rearward
  - Mid Position
  - Full Forward
17. Suppression tests with representative 3-year-old child in the following positions (mid-height seat position):

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

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

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

19. Suppression tests with representative 6-year-old child using the following indicated child restraints where a child restraint is required (mid-height seat position):

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

20. Suppression tests with 6-year-old dummy (Part 572, Subpart N) in the following positions (mid-height seat position):

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

21. Suppression tests with representative 6-year-old child in the following positions (mid-height seat position):

- Sitting on seat with back against seat back (S22.2.2.1)
  - Full Rearward  Mid Position  Full Forward
22. Test of Reactivation of the Passenger Air Bag System with an Unbelted 5th percentile female dummy (S20.3, 22.3, S24.3) (mid-height seat position). Perform this test after the following suppression tests: After each restraint.

23. Test of Reactivation of the Passenger Air Bag System with a representative 5th percentile female (S20.3, 22.3, S24.3) (mid-height seat position). Perform this test after the following suppression tests:

24. Low risk deployment test with 12-month-old dummy (Part 572, Subpart R) using the following indicated child restraints (full forward, mid-height seat position) (S20.4):

   - Section B
     - Britax Handle with Care 191
     - Century Assura 4553
     - Century Smart Fit 4543
     - Cosco Arriva 02727
     - Evenflo Discovery Adjust Right 212
     - Evenflo First Choice 204
     - 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

25. Low risk deployment test with 3-year-old dummy (Part 572, Subpart P) in the following positions:
   - Position 1 (rearmost, lowest seat position)
   - Position 2 (mid-height seat position)

26. Low risk deployment test with 6-year-old dummy (Part 572, Subpart N) in the following positions:
   - Position 1 (rearmost, lowest seat position)
   - Position 2 (mid-height seat position)

27. Low risk deployment test with 5th female dummy (Part 572, Subpart O) in the following positions:
   - Position 1 (mid-height seat position)
   - Position 2 (mid-height seat position)

28. Impact Tests
   - Frontal Oblique
     - Impact Angle: 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)(2) or S5.1.2(b))
Frontal 0° - Test Speed: 39.9 kmph

- Belted 50th male dummy driver (0 to 48 kmph) (S5.1.1.(b)(1) or S5.1.1(a))
- Belted 50th male dummy passenger (0 to 48 kmph) (S5.1.1.(b)(1) or S5.1.1(a))
- Belted 5th female dummy driver (0 to 48 kmph) (S16.1(a)(1))
- Belted 5th female dummy passenger (0 to 48 kmph) (S16.1(a)(1))
- Belted 5th female dummy driver and passenger (0 to 48 kmph) (S16.1(a)(2))
- 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 female dummy driver and passenger (0 to 40 kmph) (S18.1)

Test Speed:

- 29. FMVSS 204 Indicant Test
- 30. FMVSS 212 Test
- 31. FMVSS 219 Indicant Test
- 32. FMVSS 301 Frontal Test
DATA SHEET 2
REPORT OF VEHICLE CONDITION

Test Vehicle: 2009 Mazda 6  
NHTSA No.: C95402
Test Program: FMVSS 208 Compliance  
Test Dates: 3/25/09-5/7/09

CONTRACT NO.: DTNH22-08-D-00086  
Date: 5/14/09
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: 2009 Mazda 6 4 Door
MANUFACTURE DATE: 10/08
NHTSA NO. C95402  
GVWR: 1969 kg (4340 lbs)
BODY COLOR: Onyx Black  
GAWR (Fr): 1037 kg (2286 lbs)
VIN: 1YVHP80A695M23827  
GAWR (Rr): 935 kg (2062 lbs)

ODOMETER READINGS: ARRIVAL (miles): 82  
DATE: 3/10/09
COMPLETION (miles): 89  
DATE: 5/7/09
PURCHASE PRICE: ($) 16,858
DEALER’S NAME: Hall Imports – 19809 Bluemound Road, Brookfield, WI 53045

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 in comment section

Identify the letter above to which any of the following comments apply.
Comments: _____________________________________________
_________________________________________________________________

Test Vehicle: 2009 Mazda 6
Test Program: FMVSS 208 Compliance
NHTSA No.: C95402
Test Dates: 3/25/09-5/7/09
REPORT OF VEHICLE CONDITION AT THE COMPLETION OF TESTING

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

VEHICLE: 2009 Mazda 6
NHTSA NO.: C95402

REMARKS:

Equipment that is no longer on the test vehicle as noted on previous page:
Spare tire, jack, right rear tail light, trunk carpet and trunk floor cover

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: Jeff Lewandowski DATE: 5/14/2009
APPROVED BY: David Winkelbauer DATE: 5/14/2009

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

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:** 2009 Mazda 6  
**Test Program:** FMVSS 208 Compliance  
**Test Technician:** Jamie Aide  
**NHTSA No.:** C95402  
**Test Date:** 5/7/09  

<table>
<thead>
<tr>
<th>Certification Label (Part 567)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Manufacturer:</strong></td>
<td>MAZDA MOTOR CORPORATION</td>
</tr>
<tr>
<td><strong>Date of Manufacture:</strong></td>
<td>10/08</td>
</tr>
<tr>
<td><strong>VIN:</strong></td>
<td>1YVHP8A695M23827</td>
</tr>
<tr>
<td><strong>Vehicle Certified As (Pass. Car/MPV/Truck/Bus):</strong></td>
<td>Passenger Car</td>
</tr>
<tr>
<td><strong>Front Axle GVWR:</strong></td>
<td>1037 kg (2286 lbs)</td>
</tr>
<tr>
<td><strong>Rear Axle GVWR:</strong></td>
<td>935 kg (2062 lbs)</td>
</tr>
<tr>
<td><strong>Total GVWR:</strong></td>
<td>1969 kg (4340 lbs)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tire Placard for Motor Vehicles with GVWR of 10,000 lb or Less and Passenger Cars (571.110)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Vehicle Capacity Weight:</strong></td>
<td>385 kg (850 lbs)</td>
</tr>
<tr>
<td><strong>Designated Seating Capacity Front:</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>Designated Seating Capacity Rear:</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Designated Seating Capacity:</strong></td>
<td>5</td>
</tr>
<tr>
<td><strong>Recommended Cold Tire Inflation Pressure Front:</strong></td>
<td>220 kpa (32 psi)</td>
</tr>
<tr>
<td><strong>Recommended Cold Tire Inflation Pressure Rear:</strong></td>
<td>220 kpa (32 psi)</td>
</tr>
<tr>
<td><strong>Recommended Tire Size:</strong></td>
<td>P205/65R16</td>
</tr>
<tr>
<td><strong>Tire Size on Vehicle:</strong></td>
<td>P205/65R16</td>
</tr>
</tbody>
</table>

**Signature:**  
**Date:** 5/7/09
DATA SHEET 4
REAR SEATING POSITION SEAT BELTS

Test Vehicle: 2009 Mazda 6
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

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

Do all rear 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: Wayne Dahlke

Date: 3/25/09
DATA SHEET 5
AIR BAG LABELS (S4.5.1)

Test Vehicle: 2009 Mazda 6
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

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)
      [x] 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 specifies 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 vehicle part? (3/19/01 legal interpretation to Todd Mitchell)
   [ ] Yes – Pass
   [ ] No – Fail

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

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

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

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

   2.3 Include a statement that the air bag is a supplemental restraint at the front outboard seating position?
      [x] 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?
X Yes – Pass
X 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?
X Yes – Pass
X 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?
X Yes – Pass
X No – Fail

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

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

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

2.7.6 Is the vehicle certified to the requirements of S19.2, S21.2, or 23.2 (automatic suppression)?
X Yes, continue with 2.7.6
X No, go to 2.7.7

2.7.6.1 Contain a complete description of the passenger air bag suppression system installed in the vehicle, including a discussion of any suppression zone? (S4.5.1(f)(2)(iv))
X Yes – Pass
X No – Fail

2.7.6.2 Discuss the telltale light, specifying its location in the vehicle and explaining when the light is illuminated?
X Yes – Pass
X No – Fail
2.7.7 Explain the interaction of the advanced passenger air bag system with other vehicle components, such as seat belts, seats or other components? (S4.5.1(f)(2)(v))
- Yes – Pass
- No – Fail

2.7.8 Summarize the expected outcomes when child restraint systems, children and small teenagers or adults are both properly and improperly positioned in the passenger seat, including cautionary advice against improper placement of child restraint systems? (S4.5.1(f)(2)(vi))
- Yes – Pass
- No – Fail

2.7.9 Provide information on how to contact the vehicle manufacturer concerning modifications for persons with disabilities that may affect the advanced air bag system? (S4.5.1(f)(2)(vii))
- Yes – Pass
- No – Fail

3. Sun Visor Air Bag Warning Label (S4.5.1(b)): Vehicles certified to meet the requirements of S19, S21 and S23. (S4.5.1(b)(3))
- Yes – Pass
- No – Fail

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)) (3/19/01 legal interpretation to Todd Mitchell)
- Driver Side, Yes – Pass
- Driver Side, No – Fail
- Passenger Side, Yes – Pass
- Passenger Side, No – Fail
3.2 Does the label conform in content to the label shown in Figure 11 at each front outboard seating position? (S4.5.1(b)(2)) (Vehicles without back seats or the back seat is too small to accommodate a rear-facing child restraint may omit the statement: “Never put a rear-facing child seat in the front.” (S4.5.1(b)(3)(v)))

![Figure 11: Sun Visor Label Visible when Visor is in Down Position.](image1)

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

<table>
<thead>
<tr>
<th>Side</th>
<th>Pass/Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver</td>
<td>Driver Side, Yes – Pass</td>
</tr>
<tr>
<td>Passenger</td>
<td>Passenger Side, Yes – Pass</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Side</th>
<th>Pass/Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver</td>
<td>Driver Side, Yes – Pass</td>
</tr>
<tr>
<td>Passenger</td>
<td>Passenger Side, Yes – Pass</td>
</tr>
</tbody>
</table>
X 3.5  Is the message area at least 30 cm$^2$? (S4.5.1(b)(3)(ii))

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

Driver Side: Length 98 mm, Width 59 mm
Passenger Side: Length 98 mm, Width 59 mm

Driver actual message area 57.8 cm$^2$
Passenger actual message area 57.8 cm$^2$

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

X 3.6  Is the pictogram black on a white background? (S4.5.1(b)(3)(iii))

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

X 3.7  Is the pictogram at least 30 mm in length? (S4.5.1(b)(3)(iii))

Driver side: Length: 38 mm
Passenger side: Length: 38 mm

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

X 3.8  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))

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

X 3.9  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))

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

X 3.10 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 3.10.1)
X No (go to 4., skipping 3.10.1 through 3.10.3)
3.10.1 Are both the rollover-warning label and the air bag warning label surrounded by a continuous solid-lined border?

___ Yes (go to 3.10.2 and skip 3.10.3)
___ No (go to 3.10.3 and skip 3.10.2)

3.10.2 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
___Yes-Pass ___No-FAIL

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

_________ actual distance
___Yes-Pass ___No-FAIL

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

4.1 Is the Sun Visor Warning Label visible when the sun visor is in the stowed position?

X If yes for driver and passenger, go to 5.

X Driver Side, Yes
____ Driver Side, No

X Passenger Side, Yes
____ Passenger Side, No

4.2 Is the air bag alert label permanently affixed (including permanent marking on the visor material or molding into the visor material) to the sun visor at each front outboard seating position such that it cannot be removed without destroying or defacing the label or the sun visor? (S4.5.1(c)) (3/19/01 legal interpretation to Todd Mitchell)

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

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

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

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

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

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

4.8 Is the pictogram at least 20 mm in diameter? (S4.5.1(c)(2))
5. Label on the Dashboard: Vehicles certified to meet the requirements of S19, S21 and S23?

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

- Yes – Pass  The label was missing and it could not be determined when it was removed. Therefore it was not evaluated.
- No - Fail

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

- Yes – Pass
- No - Fail

5.3 Does the label conform in content to the label shown in Figure 12? (S4.5.1(e)(3))

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

- Yes – Pass
- No - Fail

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

- Yes – Pass
- No - Fail

5.5 Is the message white with black text? (S4.5.1(e)(3)(ii))

- Yes – Pass
- No - Fail

5.6 Is the message area at least 30 cm²? (S4.5.1(e)(3)(ii)) The message area consists of the total label area minus the yellow heading area. (See 5/6/03 interpretation to Gerald Plante on behalf of Subaru)

Length ________, Width ________

Actual message area________ cm²

- Yes – Pass
- No - Fail

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 3/25/09
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).*
   - [X] Yes
   - [ ] No

2. **Describe the location of the readiness indicator:** *Lower Right*

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

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

5. **Does the vehicle have an on-off switch for the passenger air bag?**
   - [X] If Yes (go to 6)
   - [ ] If No (this form is complete)

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

**REMARKS:**

I certify that I have read and performed each instruction.

Signature: 

Date: 3/25/09
DATA SHEET 7
PASSENGER AIR BAG MANUAL CUT-OFF DEVICE (S4.5.4)

Test Vehicle: 2009 Mazda 6
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

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

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

3. Verification there is room for a child restraint in the rear seat behind the driver’s seat. (S4.5.4.1(b))
   3.1 Using all the controls that affect the fore-aft movement of the seat, move the seat to the rearmost position. Mark this position.
      ✓ N/A – the seat does not have fore-aft adjustment
   3.2 Using all the controls that affect the fore-aft movement of the seat, move the seat to the foremost position. Mark this position.
      ✓ N/A – the seat does not have fore-aft adjustment
   3.3 Move the seat to the middle of the foremost and rearmost positions. (S8.1.2)
      ✓ N/A – the seat does not have a fore-aft adjustment
   3.4 If the driver’s seat height is adjustable, use all the controls that affect height to put it in the lowest position while maintaining the middle fore-aft position. (S8.1.2)
      ✓ N/A – No seat height adjustment
   3.5 Position the driver’s seat adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)
      ✓ N/A – No lumbar adjustment
   3.6 The driver’s seat back angle, if adjustable, is set at the manufacturer’s nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S4.5.4.1(b) and S8.1.3)
      ✓ N/A – No seat back angle adjustment
      Manufacturer’s design driver’s seat back angle ____________
      Tested driver’s seat back angle ____________

3.7 Is the driver seat a bucket seat?
   Yes, go to 3.7.1 and skip 3.7.2.
   No, go to 3.7.2 and skip 3.7.1.
   3.7.1 Bucket seats:
   3.7.1.1 Locate and mark a vertical Plane B through the longitudinal centerline of the driver’s seat cushion. The longitudinal centerline of a bucket seat cushion is determined at SgRP. (S16.3.1.10) (S4.5.4.1(b)(1))
   3.7.1.2 Locate the longitudinal horizontal line in plane B that is tangent to the highest point of the rear seat cushion behind the driver’s seat. Measure along this line from the front of the seat back of the rear seat to the rear of the seat back of the driver’s seat.
      __ mm distance
      less than 720 mm – Pass
      more than 720 mm – FAIL
      Go to 4
3.7.2 Bench seats (including split bench seats):

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

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

- mm distance
  - less than 720 mm – Pass
  - more than 720 mm - FAIL

Go to 4

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

- Yes – Pass
- No – Fail

5. Is the on-off device separate from the ignition switch? (S4.5.4.2)

- Yes – Pass
- No – Fail

6. Is there a telltale light that comes on when the passenger air bag is turned off? (S4.5.4.2)

- Yes – Pass
- No – Fail

7. Telltale light (S4.5.4.3)

7.1 Is the light yellow? S4.5.4.3(a))

- Yes – Pass
- No – Fail

7.2 Are the words “PASSENGER AIR BAG OFF” or “PASS AIR BAG OFF” (S4.5.4.3(b)) on the telltale?

7.2.1 Yes – Pass, go to 7.3

    No – go to 7.2.2

7.2.2 Within 25 mm of the telltale?

    Measurement from the edge of the telltale light (mm):

    - 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: [Signature]

Date: 3/25/09
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: 2009 Mazda 6  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke  
NHTSA No.: C95402  
Test Date: 3/25/09

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

DESIGNATED SEATING POSITION: Front Passenger

<table>
<thead>
<tr>
<th>Designation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A – No retractor is at this position</td>
</tr>
<tr>
<td>X</td>
<td>N/A – The retractor is an automatic locking retractor ONLY</td>
</tr>
</tbody>
</table>
| 1.          | Record test fore-aft seat position: REAR  
(S7.1.1.5(c)(1)) (Any position is acceptable) |
| X           | Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT have to be attached by the vehicle user to the seat belt webbing, retractor, or any other part of the vehicle. (S7.1.1.5 (a)) |
| X Yes – Pass | X No – Fail |
| 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 require inverting, twisting or deforming of the belt webbing. (S7.1.1.5(a)) |
| X Yes – Pass | X No – Fail |
| 3.          | Place any adjustable seat belt anchorage in the lowest adjustment position.  
N/A The anchorage is not adjustable. |
| X           | Buckle the seat belt. (S7.1.1.5(c)(1)) |
| X           | Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2)) |
| X           | Locate a reference point B on the attachment hardware or retractor assembly at the other end of the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2)) |
| X           | Does the vehicle user need to take some action to activate the locking feature on the lap belt portion of the seat belt in any forward-facing seat or seat that can be adjusted to forward-facing? |
| X Yes (go to 8.1) | X No (go to 9) |
| 8.1         | Does the vehicle owner’s manual include a description in words and/or diagrams describing how to activate the locking feature so that the seat belt assembly can tightly secure a child restraint system and how to deactivate the locking feature to remove the child restraint system. (S7.1.1.5(b)) |
| X Yes – Pass | X No – Fail |
| 9.          | Adjust the lap belt or lap belt portion of the seat belt assembly according to any procedures recommended in the vehicle owner’s manual to activate any locking feature so that the webbing between points A and B is at the maximum length allowed by the belt system. (S7.1.1.5(c)(2) & S7.1.1.5(c)(1)) |
| X           | 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)) |
| X           | Measured distance between A and B (inches): 75 ½ |
11. Readjust the belt system so that the webbing between points A and B is at ½ the maximum length of the webbing. (S7.1.1.5(c)(3))

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

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

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

- Measured distance between A and B: 40 inches

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

- Record onset rate: 15 lb/sec (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5))
- Measured distance between A and B: 40 ½ inches (S7.1.1.5(c)(6))

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

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

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

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

- Measured distance between A and B: 22 ¾ inches

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

- Record onset rate: 15 lb/sec (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5))
- Measured distance between A and B: 23 ¾ inches (S7.1.1.5(c)(6))

19. Subtract the measurement in 13 from the measurement in 14 and the measurement in 17 from the measurement in 18. Is the difference 2 inches or less for both? (S7.1.1.5(c)(7))

- 14 – 13 = 40 ½ - 40 = ½ inch;
- 18 – 17 = 23 ¾ - 22 ¾ = 1 inch

Yes – Pass
No – Fail
20. Subtract the measurement in 14 from the measurement in 10 and the measurement in 18 from the measurement in 10. Is the difference 3 inches or more for both? (S7.1.1.5(c)(8))

10-14 = 75 ½ - 40 ½ = 35 inches;
10-18 = 75 ½ - 23 ¾ = 51 ¾ inches

Yes – Pass
No – Fail

REMARKS:

Signature: __________________________ Date: 3/25/09

I certify that I have read and performed each instruction.

Figure 5. - Webbing Tension Pull Device
DATA SHEET 8
LAP BELT LOCKABILITY

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

Test Vehicle: 2009 Mazda 6  NHTSA No.: C95402
Test Program: FMVSS 208 Compliance  Test Date: 3/25/09
Test Technician: Wayne Dahlke

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

**DESIGNATED SEATING POSITION:** Left Rear Passenger

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N/A – No retractor is at this position  N/A – The retractor is an automatic locking retractor ONLY</td>
</tr>
<tr>
<td>X</td>
<td>1. Record test fore-aft seat position: FIXED (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))  Yes – Pass  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))  Yes – Pass  No – Fail</td>
</tr>
<tr>
<td>X</td>
<td>4. Place any adjustable seat belt anchorage in the lowest adjustment position.  N/A The anchorage is not adjustable.</td>
</tr>
<tr>
<td>X</td>
<td>5. Buckle the seat belt. (S7.1.1.5(c)(1))</td>
</tr>
<tr>
<td>X</td>
<td>6. Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2))</td>
</tr>
<tr>
<td>X</td>
<td>7. Locate a reference point B on the attachment hardware or retractor assembly at the other end of the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))</td>
</tr>
<tr>
<td>X</td>
<td>8. Does the vehicle user need to take some action to activate the locking feature on the lap belt portion of the seat belt in any forward-facing seat or seat that can be adjusted to forward-facing?  Yes (go to 8.1)  No (go to 9)</td>
</tr>
<tr>
<td>X</td>
<td>8.1 Does the vehicle owner’s manual include a description in words and/or diagrams describing how to activate the locking feature so that the seat belt assembly can tightly secure a child restraint system and how to deactivate the locking feature to remove the child restraint system. (S7.1.1.5(b))  Yes – Pass  No – Fail</td>
</tr>
<tr>
<td>X</td>
<td>9. Adjust the lap belt or lap belt portion of the seat belt assembly according to any procedures recommended in the vehicle owner’s manual to activate any locking feature so that the webbing between points A and B is at the maximum length allowed by the belt system. (S7.1.1.5(c)(2) &amp; S7.1.1.5(c)(1))</td>
</tr>
<tr>
<td>X</td>
<td>10. Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))  Measured distance between A and B (inches): 68</td>
</tr>
</tbody>
</table>
11. Readjust the belt system so that the webbing between points A and B is at $\frac{1}{2}$ the maximum length of the webbing.  (S7.1.1.5(c)(3))

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

\[ \text{Measured force application angle: } 10 \text{ (spec. 5 - 15 degrees)} \]

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

\[ \text{Measured distance between A and B: } 39 \text{ inches} \]

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

\[ \text{Record onset rate: } 15 \text{ lb/sec (spec. 10 to 50 lb/sec)} \]

\[ \text{Measured distance between A and B: } 39 \frac{1}{2} \text{ inches} \]

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

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

\[ \text{Measured force application angle: } 10 \text{ (spec. 5 - 15 degrees)} \]

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

\[ \text{Measured distance between A and B: } 12 \frac{3}{4} \text{ inches} \]

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

\[ \text{Record onset rate: } 15 \text{ lb/sec (spec. 10 to 50 lb/sec)} \]

\[ \text{Measured distance between A and B: } 13 \frac{1}{4} \text{ inches} \]

19. Subtract the measurement in 13 from the measurement in 14 and the measurement in 17 from the measurement in 18. Is the difference 2 inches or less for both? (S7.1.1.5(c)(7))

\[ 14 - 13 = 39 \frac{1}{2} - 39 = \frac{1}{2} \text{ inch;} \]

\[ 18 - 17 = 13 \frac{1}{4} - 12 \frac{3}{4} = \frac{1}{2} \text{ inch} \]

\[ \text{Yes – Pass} \]

\[ \text{No – Fail} \]
20. Subtract the measurement in 14 from the measurement in 10 and the measurement in 18 from the measurement in 10. Is the difference 3 inches or more for both? (S7.1.1.5(c)(8))

10-14 = 68 – 39 \frac{1}{2} = 28 \frac{1}{2} \text{ inches;}
10-18 = 68 – 13 \frac{3}{4} = 54 \frac{3}{4} \text{ inches}

X Yes – Pass
X No – Fail

REMARKS:

Signature: __________________________ Date: 3/25/09

I certify that I have read and performed each instruction.
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: 2009 Mazda 6  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke

NHTSA No.: C95402  
Test Date: 3/25/09

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

<table>
<thead>
<tr>
<th>DESIGNATED SEATING POSITION:</th>
<th>Center Rear Passenger</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A – No retractor is at this position</td>
<td></td>
</tr>
<tr>
<td>N/A – The retractor is an automatic locking retractor ONLY</td>
<td></td>
</tr>
</tbody>
</table>
| 1. Record test fore-aft seat position: FIXED  
(S7.1.1.5(c)(1)) (Any position is acceptable) |
| 2. Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT have to be attached by the vehicle user to the seat belt webbing, retractor, or any other part of the vehicle. (S7.1.1.5 (a))  
Yes – Pass  
No – Fail |
| 3. Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT require inverting, twisting or deforming of the belt webbing. (S7.1.1.5 (a))  
Yes – Pass  
No – Fail |
| 4. Place any adjustable seat belt anchorage in the lowest adjustment position.  
N/A The anchorage is not adjustable. |
| 5. Buckle the seat belt. (S7.1.1.5(c)(1)) |
| 6. Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2)) |
| 7. Locate a reference point B on the attachment hardware or retractor assembly at the other end of the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2)) |
| 8. Does the vehicle user need to take some action to activate the locking feature on the lap belt portion of the seat belt in any forward-facing seat or seat that can be adjusted to forward-facing?  
Yes (go to 8.1)  
No (go to 9)  
8.1 Does the vehicle owner’s manual include a description in words and/or diagrams describing how to activate the locking feature so that the seat belt assembly can tightly secure a child restraint system and how to deactivate the locking feature to remove the child restraint system. (S7.1.1.5(b))  
Yes – Pass  
No – Fail |
| 9. Adjust the lap belt or lap belt portion of the seat belt assembly according to any procedures recommended in the vehicle owner’s manual to activate any locking feature so that the webbing between points A and B is at the maximum length allowed by the belt system. (S7.1.1.5(c)(2) & S7.1.1.5(c)(1)) |
| 10. Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))  
Measured distance between A and B (inches): 70 ¾ |
11. Readjust the belt system so that the webbing between points A and B is at ½ the maximum length of the webbing. (S7.1.1.5(c)(3))

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

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

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

   Measured distance between A and B: 38 ¾ inches

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

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

   Measured distance between A and B: 39 ½ inches (S7.1.1.5(c)(6))

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

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

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

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

   Measured distance between A and B: 13 inches

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

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

   Measured distance between A and B: 13 ¾ inches (S7.1.1.5(c)(6))

19. Subtract the measurement in 13 from the measurement in 14 and the measurement in 17 from the measurement in 18. Is the difference 2 inches or less for both? (S7.1.1.5(c)(7))

   14 – 13 = 39 ½ - 38 ¾ = ¾ inches;

   18 – 17 = 13 ¾ - 13 = ¾ inches

Yes – Pass
No – Fail
20. Subtract the measurement in 14 from the measurement in 10 and the measurement in 18 from the measurement in 10. Is the difference 3 inches or more for both? (S7.1.1.5(c)(8))

- 10-14 = 70 ¾ - 39 ½ = 31 ¼ inches;
- 10-18 = 70 ¾ - 13 ¾ = 57 inches

Yes – Pass
No – Fail

REMARKS:

Signature: __________________________ Date: 3/25/09

I certify that I have read and performed each instruction.
### 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>2009 Mazda 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
</tr>
<tr>
<td>Test Technician:</td>
<td>Wayne Dahlke</td>
</tr>
<tr>
<td>NHTSA No.:</td>
<td>C95402</td>
</tr>
<tr>
<td>Test Date:</td>
<td>3/25/09</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

<p>| | |</p>
<table>
<thead>
<tr>
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</tbody>
</table>

1. **Record test fore-aft seat position: ** **FIXED**
   
   (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))**
   
   **X Yes – Pass**
   **No – Fail**

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

4. **Place any adjustable seat belt anchorage in the lowest adjustment position.**
   
   **X N/A The anchorage is not adjustable.**

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

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

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

8. **Does the vehicle user need to take some action to activate the locking feature on the lap belt portion of the seat belt in any forward-facing seat or seat that can be adjusted to forward-facing?**
   
   **X Yes (go to 8.1)**
   **No (go to 9)**

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

9. **Adjust the lap belt or lap belt portion of the seat belt assembly according to any procedures recommended in the vehicle owner’s manual to activate any locking feature so that the webbing between points A and B is at the maximum length allowed by the belt system. (S7.1.1.5(c)(2) & S7.1.1.5(c)(1))**

10. **Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))**

   **X Measured distance between A and B (inches): 68**
11. Readjust the belt system so that the webbing between points A and B is at ½ the maximum length of the webbing. (S.1.1.5(c)(3))

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

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

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

- Measured distance between A and B: 37 ½ inches

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

- Record onset rate: 15 lb/sec (spec. 10 to 50 lb/sec) (S.1.1.5(c)(5))
- Measured distance between A and B: 38 ¼ inches (S.1.1.5(c)(6))

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

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

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

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

- Measured distance between A and B: 11 ½ inches

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

- Record onset rate: 15 lb/sec (spec. 10 to 50 lb/sec) (S.1.1.5(c)(5))
- Measured distance between A and B: 12 ¾ inches (S.1.1.5(c)(6))

19. Subtract the measurement in 13 from the measurement in 14 and the measurement in 17 from the measurement in 18. Is the difference 2 inches or less for both? (S.1.1.5(c)(7))

- 14 – 13 = 38 ¼ - 37 ½ = ¾ inches;
- 18 – 17 = 12 ¾ - 11 ½ = 1 ¼ inches

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

\[
10-14 = 68 - 38 \frac{1}{4} = 29 \frac{3}{4} \text{ inches}; \\
10-18 = 68 - 12 \frac{3}{4} = 55 \frac{1}{4} \text{ inches}
\]

Yes – Pass
No – Fail

REMARKS:

Signature: [Signature] Date: 3/25/09

I certify that I have read and performed each instruction.
DATA SHEET 9
FMVSS 208 SEAT BELT WARNING SYSTEM CHECK (S7.3)

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 5 seconds.
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 Stays On seconds.
9. The occupant is in the driver’s seat.
10. The seat belt is in the latched position and with at least 4 inches of belt webbing extended.
11. The key is in the “on” or “start” position.
12. The time duration of the warning light beginning with key “on” or “start” is 0 seconds.
13. Complete the following table with the data from 4, 8, and 12 to determine which option is used.

<table>
<thead>
<tr>
<th>Warning light specification</th>
<th>Audible signal specification*</th>
</tr>
</thead>
<tbody>
<tr>
<td>S7.3 (a)(1) Belt stowed &amp; key on or start</td>
<td>Item 8 Stays On</td>
</tr>
<tr>
<td>S7.3 (a)(2) Belt latched &amp; key on or start</td>
<td>Item 12 <em>0</em></td>
</tr>
<tr>
<td>Belt stowed &amp; key on or start</td>
<td>Item 8: Stays On</td>
</tr>
</tbody>
</table>

* 49 USCS @ 30124 does NOT allow an audible signal to operate for more than 8 seconds.
A voluntary audible signal after the 4 to 8 second required signal may be provided. It must be differentiated from the required signal (5/25/2001 legal interpretation to Longacre and Associates).

14. The seat belt warning system meets the requirements of (manufacturers may comply with either section).
   - S7.3 (a)(1)
   - S7.3 (a)(2)
   - FAIL – Does NOT meet the requirements of either option.

15. Note wording of visual warning: (S7.3(a)(1) and S7.3(a)(2))
   - Fasten Seat Belts
   - Fasten Belts
   - Symbol 101 -  ⚠️ or ⚠️
   - FAIL – Does not use any of the above wording or symbol.

I certify that I have read and performed each instruction.

Signature: ___________________________  Date: 3/25/09
Test all Type 2 seat belts other than those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

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

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

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

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

4. Is the fore-aft position of the seat adjustable?
   - No – go to 5
   - Yes – go to 4.1

   4.1 Use all the seat controls that have any effect on the fore-aft movement of the seat to move the seat cushion to the rearmost position. Mark this position. (8/31/95 legal interp to Hogan and Hartson)

   4.2 Use all the seat controls that have any effects on the fore-aft movement of the seat to move the seat cushion to the foremost position. Mark this position. (8/31/95 legal interp to Hogan and Hartson)

   4.3 Mark each fore-aft position so that there is a visual indication when the seat is at a particular position. For manual seats, 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. Determine the mid fore-aft seat position based on the foremost and rearmost positions determined in items 4.1 and 4.2. (8/31/95 legal interp to Hogan and Hartson)

   4.4 Move the seat to the mid position.

   4.5 While maintaining the mid position, move the seat to its lowest position. For seats with adjustable seat cushions, use the manufacturer’s recommended seat cushion angle for determining the lowest height position.

5. Is the seat back angle adjustable?
   - No- go to 6
   - Yes- go to 5.1

   5.1 Set and mark 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: ____________
   - Tested seat back angle: ____________
6. Is the seat a bucket seat?

☐ Yes, go to 6.1 and skip 6.2
☐ No, go to 6.2 and skip 6.1

6.1 Bucket seats:

Locate and mark the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S10.4.1.2 and S16.3.1.10)

6.2 Bench seats (complete ONLY the one that is applicable to the seat being tested):

6.2.1 Driver Seat

Locate and mark the longitudinal line on the seat cushion that marks the intersection of the vertical longitudinal plane through the centerline of the steering wheel and the seat cushion upper surface. (S10.4.1.1)

6.2.2 Front Outboard Passenger Seat

Locate and mark the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S10.4.1.1)

☐ Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel. _________
☐ Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion. ________

6.2.3 Rear designated seating positions

Locate and mark the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline.

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

8. Fasten the seat belt latch.

9. 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.

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

☐ Contact Force (lb): 0.3
☐ 0.0 to 0.7 pounds – Pass
☐ Greater than 0.7 pounds - FAIL

REMARKS:

I certify that I have read and performed each instruction.

Signature: _________________________________ Date: 3/25/09
**DATA SHEET 10**

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

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

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

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

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

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

4. Is the fore-aft position of the seat adjustable?
   - [X] No – go to 5
   - [ ] Yes – go to 4.1

   4.1 Use all the seat controls that have any affect on the fore-aft movement of the seat to move the seat cushion to the rearmost position. **Mark** this position. (8/31/95 legal interp to Hogan and Hartson)

   4.2 Use all the seat controls that have any affects on the fore-aft movement of the seat to move the seat cushion to the foremost position. **Mark** this position. (8/31/95 legal interp to Hogan and Hartson)

   4.3 **Mark** each fore-aft position so that there is a visual indication when the seat is at a particular position. For manual seats, **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. Determine the mid fore-aft seat position based on the foremost and rearmost positions determined in items 4.1 and 4.2. (8/31/95 legal interp to Hogan and Hartson)

   4.4 Move the seat to the mid position.

   4.5 While maintaining the mid position, move the seat to its lowest position. For seats with adjustable seat cushions, use the manufacturer’s recommended seat cushion angle for determining the lowest height position.

5. Is the seat back angle adjustable?
   - [X] No- go to 6
   - [ ] Yes- go to 5.1

   5.1 Set and mark 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: __________
   - [ ] Tested seat back angle: __________
6. Is the seat a bucket seat?
   - Yes, go to 6.1 and skip 6.2
   - No, go to 6.2 and skip 6.1

6.1 Bucket seats:
   Locate and mark the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S10.4.1.2 and S16.3.1.10)

6.2 Bench seats (complete ONLY the one that is applicable to the seat being tested):

6.2.1 Driver Seat
   Locate and mark the longitudinal line on the seat cushion that marks the intersection of the vertical longitudinal plane through the centerline of the steering wheel and the seat cushion upper surface. (S10.4.1.1)

6.2.2 Front Outboard Passenger Seat
   Locate and mark the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S10.4.1.1)
   - Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel: _________
   - Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion: ________

6.2.3 Rear designated seating positions
   Locate and mark the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline.

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

8. Fasten the seat belt latch.

9. 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.

10. 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): 0.5
   - 0.0 to 0.7 pounds – Pass
   - Greater than 0.7 pounds - FAIL

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

Signature: _________________________________ Date: 3/25/09
DATA SHEET 10
BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2009 Mazda 6  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke  
NHTSA No.: C95402  
Test Date: 3/25/09

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

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

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

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

4. Is the fore-aft position of the seat adjustable?
   - No – go to 5
   - Yes – go to 4.1

   4.1 Use all the seat controls that have any affect on the fore-aft movement of the seat to move the seat cushion to the rearmost position. Mark this position. (8/31/95 legal interp to Hogan and Hartson)

   4.2 Use all the seat controls that have any affects on the fore-aft movement of the seat to move the seat cushion to the foremost position. Mark this position. (8/31/95 legal interp to Hogan and Hartson)

   4.3 Mark each fore-aft position so that there is a visual indication when the seat is at a particular position. For manual seats, 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. Determine the mid fore-aft seat position based on the foremost and rearmost positions determined in items 4.1 and 4.2. (8/31/95 legal interp to Hogan and Hartson)

   4.4 Move the seat to the mid position.

   4.5 While maintaining the mid position, move the seat to its lowest position. For seats with adjustable seat cushions, use the manufacturer's recommended seat cushion angle for determining the lowest height position.

5. Is the seat back angle adjustable?
   - No- go to 6
   - Yes- go to 5.1

   5.1 Set and mark 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: ____________
   - Tested seat back angle: ____________
6. Is the seat a bucket seat?
   - Yes, go to 6.1 and skip 6.2
   - No, go to 6.2 and skip 6.1

   **6.1 Bucket seats:**
   Locate and mark the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S10.4.1.2 and S16.3.1.10)

   **6.2 Bench seats (complete ONLY the one that is applicable to the seat being tested):**
   6.2.1 Driver Seat
   Locate and mark the longitudinal line on the seat cushion that marks the intersection of the vertical longitudinal plane through the centerline of the steering wheel and the seat cushion upper surface. (S10.4.1.1)

   6.2.2 Front Outboard Passenger Seat
   Locate and mark the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S10.4.1.1)
   - Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel. ________
   - Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion. ________

   6.2.3 Rear designated seating positions
   Locate and mark the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline.

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

   **8. Fasten the seat belt latch.**

   **9. 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.**

   **10. 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): 0.4
   - 0.0 to 0.7 pounds – Pass
   - Greater than 0.7 pounds - FAIL

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

Signature: __________________________ Date: 3/25/09
LATCH PLATE ACCESS (S7.4.4)

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:** Not Applicable For Any Position - Passenger Car

1. Position the seat’s adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)
   - 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. Is the fore-aft position of the seat adjustable?
   - No – go to 4
   - Yes – go to 3.1

3.1 Use all the seat controls that have any affect on the fore-aft movement of the seat to move the seat cushion to the rearmost position. Mark this position. (8/31/95 legal interp to Hogan and Hartson)

3.2 While maintaining the forward most position, move the seat to its lowest position. For seats with adjustable seat cushions, use the manufacturer’s recommended seat cushion angle for determining the lowest height position.

4. Is the seat back angle adjustable?
   - No- go to 5
   - Yes- go to 4.1

4.1 Set and mark 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: ______________
   - Tested seat back angle: ______________

5. Is the seat a bucket seat?
   - Yes, go to 5.1 and skip 5.2
   - No, go to 5.2 and skip 5.1

5.1 Bucket seats:
   - Locate and mark the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S10.4.1.2 and S16.3.1.10)

5.2 Bench seats (complete ONLY the one that is applicable to the seat being tested):

5.2.1 Driver Seat
   - Locate and mark the longitudinal line on the seat cushion that marks the intersection of the vertical longitudinal plane through the centerline of the steering wheel and the seat cushion upper surface. (S10.4.1.1)
5.2.2 Front Outboard Passenger Seat

Locate and mark the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S10.4.1.1)

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

Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion.

6. Position the test dummy using the procedures in Appendix F. (Some modifications to the positioning procedure may need to be made because the seat is in the forward most position. Note on the Appendix F positioning check sheet any deviations necessary to position the Part 572, Subpart E dummy). Complete the Appendix F check sheets, but include them in the test report ONLY if there is a test failure.

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

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

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

10. Place the latch plate in the stowed position.

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

   Yes – Pass
   No

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

   Yes – Pass
   No

13. Is the latch plate within the inboard (item 11) or outboard (item 12) reach envelope?

   Yes – Pass
   No – Fail

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

   Yes – Pass
   No – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: _________________________________ Date: 3/25/09
Figure 3. Location of Anchoring Points for Latchplate Reach Limiting Chains or Strings to Test for Latchplate Accessibility Using Subpart B Test Device

Figure 4—USE OF CLEARANCE TEST BLOCK TO DETERMINE HAND/ARM ACCESS
DATA SHEET 12
SEAT BELT RETRACTION (S7.4.5)

Test Vehicle: 2009 Mazda 6
NHTSA No.: C95402
Test Program: FMVSS 208 Compliance
Test Date: 3/25/09
Test Technician: Wayne Dahlke

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

DESIGNATED SEATING POSITION: Not Applicable For Any Position – Passenger Car

1. Is the vehicle a passenger car or walk-in van-type vehicle?
   - X 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. Is the fore-aft position of the seat adjustable?
   - No – go to 5
   - X Yes – go to 4.1

4.1 Use all the seat controls that have any affect on the fore-aft movement of the seat to move the seat cushion to the rearmost position. Mark this position. (8/31/95 legal interp to Hogan and Hartson)

4.2 Use all the seat controls that have any affects on the fore-aft movement of the seat to move the seat cushion to the foremost position. Mark this position. (8/31/95 legal interp to Hogan and Hartson)

4.3 Mark each fore-aft position so that there is a visual indication when the seat is at a particular position. For manual seats, 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. Determine the mid fore-aft seat position based on the foremost and rearmost positions determined in items 4.1 and 4.2. (8/31/95 legal interp to Hogan and Hartson)

4.4 Move the seat to the mid position.

4.5 While maintaining the mid position, move the seat to its lowest position. For seats with adjustable seat cushions, use the manufacturer’s recommended seat cushion angle for determining the lowest height position.

5. Is the seat back angle adjustable?
   - No- go to 6
   - Yes- go to 5.1

5.1 Set and mark 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: __________
   - Tested seat back angle: __________

6. Is the seat a bucket seat?
   - No, go to 6.2 and skip 6.1
   - Yes, go to 6.1 and skip 6.2

6.1 Bucket Seats:
Locate and mark the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S10.4.1.2 and S16.3.1.10)
6.2 Bench seats (complete ONLY the one that is applicable to the seat being tested):

6.2.1 Driver Seat

Locate and *mark* the longitudinal line on the seat cushion that marks the intersection of the vertical longitudinal plane through the centerline of the steering wheel and the seat cushion upper surface. (S10.4.1.1)

6.2.2 Front Outboard Passenger Seat

Locate and *mark* the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S10.4.1.1)

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

Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion. ________

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

8. Fasten the seat belt around the dummy.

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

   N/A, the seat does not have a fore-aft adjustment

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

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

   **Pound load applied:**

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

   Yes, continue

   No, go to 14

13. 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).

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

   14.1 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.

   Yes – Pass go to 16

   No – go to 14.2

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

   Yes – Pass go to 15

   No – go to 14.3

   14.3 Neither 14.1 nor 14.2 apply.

   Fail

15. 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

16. If this test vehicle has an open body (without doors) and has a belt system with a tension relieving device, does the belt system fully retract when the tension-relieving device is deactivated?

   N/A – Not an open body vehicle

   Yes – Pass

   No – Fail

**REMARKS:**

Signature: ____________________________ Date: 3/25/09

I certify that I have read and performed each instruction.
DATA SHEET 13

SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2009 Mazda 6
NHTSA No.: C95402
Test Program: FMVSS 208 Compliance
Test Date: 3/25/09
Test Technician: Wayne Dahlke

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

DESIGNATED SEATING POSITION: Left 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:

Signature: ___________________________ Date: 3/25/09

I certify that I have read and performed each instruction.
DATA SHEET 13
SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2009 Mazda 6  NHTSA No.: C95402
Test Program: FMVSS 208 Compliance  Test Date: 3/25/09
Test Technician: Wayne Dahlke

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

**DESIGNATED SEATING POSITION:** Center Rear Passenger

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

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

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

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

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

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

7. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the belt is completely retracted or, if the belt is nonretractable, the belt is unlatched. (S7.4.6.2)
   - [X] Yes – Pass
   - [X] No – Fail

8. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat is moved to any position to which it is designed to be adjusted. (S7.4.6.2)
   - [X] Yes – Pass
   - [X] 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)
   - [X] Yes – Pass
   - [X] 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)
    - [X] Yes – Pass
    - [X] No – Fail
    - [X] N/A – Rear seat

REMARKS:

Signature: _______________________________ Date: 3/25/09

I certify that I have read and performed each instruction.
DATA SHEET 13
SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2009 Mazda 6  
NHTSA No.: C95402  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke

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

**DESIGNATED SEATING POSITION:** Right Rear Passenger

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

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

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

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

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

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

7. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the belt is completely retracted or, if the belt is nonretractable, the belt is unlatched. (S7.4.6.2)  
   - Yes – Pass  
   - No – Fail

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

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

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

**REMARKS:**

Signature:  
Date: 3/25/09

I certify that I have read and performed each instruction.
DATA SHEET 16
AIR BAG SUPPRESSION TELLTALE (S19.2.2)

1. Is the vehicle certified to any suppression performance standards of FMVSS 208?
   X Yes - go to 2
   _No - this form is complete

2. Does telltale emit yellow light when the air bag is suppressed? (S19.2.2(a))
   X Yes - Pass _NO - FAIL

3. Are the words “PASSENGER AIR BAG OFF” or “PASS AIR BAG OFF” (S19.2.2(b))
   3.1 on the telltale? (S19.2.2(b))
      X Yes - Pass, go to 4
      _No - go to 3.2
   3.2 Within 25 mm of the telltale? (S19.2.2(b)) ___mm from the edge of the telltale light
      X Yes - Pass _NO - FAIL

4. Is the telltale separate from the air bag readiness indicator? (S19.2.2(c))
   X Yes - Pass _NO - FAIL

5. Is the telltale within the interior of the vehicle? (S19.2.2(d))
   X Yes - Pass _NO - FAIL

6. Is the telltale forward of and above the design H-point of both the driver’s and the front
   outboard passenger’s seat when the seats are in their forwardmost seating positions? (S19.2.2(d))
   X Yes - Pass _NO - FAIL

7. Is the telltale away from surfaces that can be used for temporary or permanent storage
   of objects that could obscure the telltale from either the driver’s or front outboard
   passenger’s view? (S19.2.2(d))
   X Yes - Pass _NO - FAIL

8. Is the telltale located so that it is not obscured from the driver or front outboard
   passenger by a rear-facing child restraint in Appendix A installed in the front outboard
   passenger seat? (S19.2.2(d))
   X Yes - Pass _NO - FAIL

9. Is the telltale visible or recognizable during the night? (S19.2.2(e))
   X Yes - Pass _NO - FAIL

10. Is the telltale visible or recognizable during the day? (S19.2.2(e))
    X Yes - Pass _NO - FAIL

11. If there is a visibility adjustment, do all the adjustment levels make the telltale visible and
    recognizable? (S19.2.2(g))
    X N/A-No visibility adjustment
    _Yes - Pass _NO - FAIL

12. Does the telltale remain illuminated while the air bag is suppressed? (S19.2.2(h)) (Leave
    the air bag suppressed for 5 minutes.)
    X Yes - Pass _NO - FAIL

13. Is the telltale off while the air bag is activated? (S19.2.2(h)) (Leave the air bag activated
    for 5 minutes.)
    X Yes - Pass _NO - FAIL

__________________________________________________________________________

I certify that I have read and performed each instruction. ___________________________ 3/25/09

Test Vehicle: 2009 Mazda 6                NHTSA No.: C95402
Test Program: FMVSS 208 Compliance       Test Date: 3/25/09
Test Technician: Wayne Dahlke

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DATA SHEET 17 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>C95402</th>
<th>TEST DATE:</th>
<th>3/25/09</th>
</tr>
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<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>WD</td>
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<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>062</td>
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<table>
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<tr>
<th>CHILD RESTRAINT NAME:</th>
<th>Britax</th>
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</thead>
<tbody>
<tr>
<td>CHILD RESTRAINT MODEL:</td>
<td>Handle With Care 191</td>
</tr>
<tr>
<td>DATE OF MANUFACTURE:</td>
<td>5-26-2000</td>
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</table>

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

Manufacturer's design seat back angle: 10.7° on Headrest Post
Tested seat back angle: 10.7° on Headrest Post
Manufacturer's specified anchorage position: 1 (3 total detents, upper-most as 0)
Tested anchorage position: 1 (3 total detents, upper-most as 0)

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>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted Rear Facing</td>
<td>Forward</td>
<td>131</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>128</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>133</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Unbelted Rear Facing</td>
<td>Forward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
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<td></td>
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<tr>
<td>Unbelted Forward Facing</td>
<td>Forward 4 *</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>

* 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; 24 = Full Rearward; 24 total Seat Slide detents)

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN507)
DATA SHEET 17 SUMMARY
Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R)
Section B Rear Facing CRS

NHTSA NO.: C95402 TEST DATE: 3/25/09
LABORATORY: MGA TECHNICIANS: WD
DUMMY TYPE: 12 Month Old DUMMY SERIAL NO.: 062

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

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

Manufacturer's design seat back angle: 10.7° on Headrest Post
Tested seat back angle: 10.7° on Headrest Post
Manufacturer's specified anchorage position: 1 (3 total detents, upper-most as 0)
Tested anchorage position: 1 (3 total detents, upper-most as 0)

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

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<th>Cinch Load (N)</th>
<th>Result</th>
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<td>Belted Rear Facing</td>
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<td>Suppressed</td>
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<tr>
<td></td>
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<td>Rearward</td>
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<td>Unbelted Forward Facing</td>
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</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; 24 = Full Rearward; 24 total Seat Slide detents)

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN507)
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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<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: 10.7° on Headrest Post
Tested seat back angle: 10.7° on Headrest Post
Manufacturer's specified anchorage position: 1 (3 total detents, upper-most as 0)
Tested anchorage position: 1 (3 total detents, upper-most as 0)

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><strong>Seat Belt</strong></td>
</tr>
<tr>
<td>Belted Rear Facing</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Unbelted Rear Facing</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Unbelted Forward Facing</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></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; 24 = Full Rearward; 24 total Seat Slide detents)
DATA SHEET 17 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>C95402</th>
<th>TEST DATE:</th>
<th>3/25/09</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>WD</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>062</td>
</tr>
</tbody>
</table>

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

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

Manufacturer's design seat back angle: 10.7° on Headrest Post
Tested seat back angle: 10.7° on Headrest Post
Manufacturer's specified anchorage position: 1 (3 total detents, upper-most as 0)
Tested anchorage position: 1 (3 total detents, upper-most as 0)

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>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted Rear</td>
<td>Forward 7 *</td>
<td>131</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Rear Facing</td>
<td>Middle</td>
<td>128</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>127</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Unbelted Rear</td>
<td>Forward 7 *</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Middle</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Forward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

* 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; 24 = Full Rearward; 24 total Seat Slide detents)

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN507)
DATA SHEET 17 SUMMARY
Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R)
Section C Forward Facing Convertible CRS

NHTSA NO.: C95402 TEST DATE: 3/25/09
LABORATORY: MGA TECHNICIANS: WD
DUMMY TYPE: 12 Month Old DUMMY SERIAL NO.: 062

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

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

Manufacturer's design seat back angle: 10.7° on Headrest Post
Tested seat back angle: 10.7° on Headrest Post
Manufacturer's specified anchorage position: 1 (3 total detents, upper-most as 0)
Tested anchorage position: 1 (3 total detents, upper-most as 0)

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>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward</td>
<td>133</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward</td>
<td>Middle</td>
<td>133</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>130</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Forward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward</td>
<td>Middle</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Belted</td>
<td>Rearward</td>
<td>133</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Rear</td>
<td>Middle</td>
<td>133</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>130</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Rear</td>
<td>Middle</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN507)
DATA SHEET 17 SUMMARY
Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R)
Section C Forward Facing Convertible CRS

NHTSA NO.: C95402   TEST DATE: 3/25/09
LABORATORY: MGA   TECHNICIANS: WD
DUMMY TYPE: 12 Month Old   DUMMY SERIAL NO.: 062

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

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

Manufacturer's design seat back angle: 10.7° on Headrest Post
Tested seat back angle: 10.7° on Headrest Post
Manufacturer's specified anchorage position: 1 (3 total detents, upper-most as 0)
Tested anchorage position: 1 (3 total detents, upper-most as 0)

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>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward</td>
<td>129</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward</td>
<td>Middle</td>
<td>131</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>130</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Forward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward</td>
<td>Middle</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Belted</td>
<td>Rear</td>
<td>133</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Rear</td>
<td>Middle</td>
<td>133</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>129</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Rear</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Rear</td>
<td>Middle</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN507)
DATA SHEET 17 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>C95402</th>
<th>TEST DATE:</th>
<th>3/25/09</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>WD</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>062</td>
</tr>
</tbody>
</table>

CHILD RESTRAINT NAME: Evenflo
CHILD RESTRAINT MODEL: Medallion 254
DATE OF MANUFACTURE: 6-1-2000

Base: _On _Off _X_N/A-Restraint does not have a removable base

Manufacturer's design seat back angle: 10.7° on Headrest Post
Tested seat back angle: 10.7° on Headrest Post
Manufacturer's specified anchorage position: 1 (3 total detents, upper-most as 0)
Tested anchorage position: 1 (3 total detents, upper-most as 0)

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>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward</td>
<td>133</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward</td>
<td>Middle</td>
<td>133</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>127</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Forward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward</td>
<td>Middle</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Belted</td>
<td>Forward</td>
<td>131</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Rear</td>
<td>Middle</td>
<td>130</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>127</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Forward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Rear</td>
<td>Middle</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN507)
DATA SHEET 18 SUMMARY
Suppression Test Using Newborn Infant Dummy (Part 572, Subpart K)
Section A Car Bed

<table>
<thead>
<tr>
<th>NHTSA NO.:</th>
<th>C95402</th>
<th>TEST DATE:</th>
<th>3/25/09</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>WD</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>Newborn Infant</td>
<td>DUMMY SERIAL NO.:</td>
<td>003</td>
</tr>
</tbody>
</table>

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

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

Manufacturer’s design seat back angle: 10.7° on Headrest Post
Tested seat back angle: 10.7° on Headrest Post
Manufacturer’s specified anchorage position: 1 (3 total detents, upper-most as 0)
Tested anchorage position: 1 (3 total detents, upper-most as 0)

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>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Forward</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN507)
DATA SHEET 19 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>C95402</th>
<th>TEST DATE:</th>
<th>3/26/09</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>WD</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>3 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>032</td>
</tr>
</tbody>
</table>

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

Manufacturer's design seat back angle: 10.7° on Headrest Post
Tested seat back angle: 10.7° on Headrest Post
Manufacturer's specified anchorage position: 1 (3 total detents, upper-most as 0)
Tested anchorage position: 1 (3 total detents, upper-most as 0)

<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</td>
<td>10</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward Facing</td>
<td>Middle</td>
<td>15</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Without Harness</td>
<td>Rearward</td>
<td>12</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Belted</td>
<td>Forward</td>
<td>130</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward Facing</td>
<td>Middle</td>
<td>128</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 Rearward position. (SN507)
DATA SHEET 19 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>C95402</th>
<th>TEST DATE:</th>
<th>3/26/09</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>WD</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>3 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>032</td>
</tr>
</tbody>
</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>
</tr>
<tr>
<td>DATE OF MANUFACTURE:</td>
<td>4-28-2000</td>
</tr>
</tbody>
</table>

Manufacturer’s design seat back angle: 10.7° on Headrest Post
Tested seat back angle: 10.7° on Headrest Post
Manufacturer’s specified anchorage position: 1 (3 total detents, upper-most as 0)
Tested anchorage position: 1 (3 total detents, upper-most as 0)

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

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN507)
DATA SHEET 20 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>C95402</th>
<th>TEST DATE:</th>
<th>3/25/09</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>WD</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>3 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>032</td>
</tr>
<tr>
<td>CHILD RESTRAINT NAME:</td>
<td>Britax</td>
<td>CHILD RESTRAINT MODEL:</td>
<td>Roundabout 161</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: 10.7° on Headrest Post
Tested seat back angle: 10.7° on Headrest Post
Manufacturer's specified anchorage position: 1 (3 total detents, upper-most as 0)
Tested anchorage position: 1 (3 total detents, upper-most as 0)

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

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN507)
DATA SHEET 20 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>C95402</th>
<th>TEST DATE:</th>
<th>3/25/09</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>WD</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>3 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>032</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>

Manufacturer's design seat back angle: 10.7° on Headrest Post
Tested seat back angle: 10.7° on Headrest Post
Manufacturer's specified anchorage position: 1 (3 total detents, upper-most as 0)
Tested anchorage position: 1 (3 total detents, upper-most as 0)

<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>Forward</td>
<td></td>
<td>131</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Middle</td>
<td></td>
<td>130</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Rearward</td>
<td></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. (SN507)
DATA SHEET 20 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>C95402</th>
<th>TEST DATE:</th>
<th>3/25/09</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>WD</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>3 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>032</td>
</tr>
</tbody>
</table>

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

Manufacturer’s design seat back angle: 10.7° on Headrest Post
Tested seat back angle: 10.7° on Headrest Post
Manufacturer’s specified anchorage position: 1 (3 total detents, upper-most as 0)
Tested anchorage position: 1 (3 total detents, upper-most as 0)

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>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>130</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 Forward position. (SN507)
### DATA SHEET 21 SUMMARY

Suppression Test Using An Unbelted 3 Year Old Dummy (Part 572, Subpart P)
No CRS

<table>
<thead>
<tr>
<th>NHTSA NO.:</th>
<th>C95402</th>
<th>TEST DATE:</th>
<th>3/26/09</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>WD</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>3 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>032</td>
</tr>
</tbody>
</table>

#### 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><strong>Position 1</strong>&lt;br&gt;Sitting on seat with back against seat back</td>
<td>Forward</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td><strong>Position 2</strong>&lt;br&gt;Sitting on seat with back against reclined seat back</td>
<td>Forward</td>
<td>34.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>34.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>34.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td><strong>Position 3</strong>&lt;br&gt;Sitting on seat with back not against seat back</td>
<td>Forward</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td><strong>Position 4</strong>&lt;br&gt;Sitting on seat edge, spine vertical, hands at dummy's sides</td>
<td>Forward</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td><strong>Position 5</strong>&lt;br&gt;Standing on seat, facing forward</td>
<td>Forward</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td><strong>Position 6</strong>&lt;br&gt;Kneeling on seat, facing forward</td>
<td>Forward</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td><strong>Position 7</strong>&lt;br&gt;Kneeling on seat, facing rearward</td>
<td>Forward</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td><strong>Position 8</strong>&lt;br&gt;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. (SN507)
DATA SHEET 22 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>C95402</th>
<th>TEST DATE:</th>
<th>3/26/09</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>WD</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>6 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>153</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>Next Step 4920</td>
</tr>
<tr>
<td>DATE OF MANUFACTURE:</td>
<td>8-16-2000</td>
</tr>
</tbody>
</table>

Manufacturer’s design seat back angle: 10.7° on Headrest Post
Tested seat back angle: 10.7° on Headrest Post
Manufacturer’s specified anchorage position: 1 (3 total detents, upper-most as 0)
Tested anchorage position: 1 (3 total detents, upper-most as 0)

**Test Summary**

<table>
<thead>
<tr>
<th>Belted</th>
<th>Seat Belt</th>
<th>Cinch Load (N)</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Forward</td>
<td>10</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>15</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>18</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN507)
DATA SHEET 22 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>C95402</th>
<th>TEST DATE:</th>
<th>3/26/09</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>WD</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>6 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>153</td>
</tr>
<tr>
<td>CHILD RESTRAINT NAME:</td>
<td>Cosco</td>
<td>CHILD RESTRAINT MODEL:</td>
<td>High Back Booster 02-442</td>
</tr>
<tr>
<td>DATE OF MANUFACTURE:</td>
<td>4-28-2000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Manufacturer's design seat back angle: 10.7° on Headrest Post
Tested seat back angle: 10.7° on Headrest Post
Manufacturer's specified anchorage position: 1 (3 total detents, upper-most as 0)
Tested anchorage position: 1 (3 total detents, upper-most as 0)

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>Forward</td>
<td></td>
<td>12</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Middle</td>
<td></td>
<td>10</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Rearward</td>
<td></td>
<td>14</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN507)
DATA SHEET 22 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>C95402</th>
<th>TEST DATE:</th>
<th>3/26/09</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>WD</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>6 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>153</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CHILD RESTRAINT NAME:</th>
<th>Evenflo</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHILD RESTRAINT MODEL:</td>
<td>Right Fit 245</td>
</tr>
<tr>
<td>DATE OF MANUFACTURE:</td>
<td>6-26-2000</td>
</tr>
</tbody>
</table>

Manufacturer’s design seat back angle: 10.7° on Headrest Post
Tested seat back angle: 10.7° on Headrest Post
Manufacturer’s specified anchorage position: 1 (3 total detents, upper-most as 0)
Tested anchorage position: 1 (3 total detents, upper-most as 0)

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</td>
<td>18</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>12</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN507)
DATA SHEET 23 SUMMARY
Suppression Tests Using an Unbelted 6 Year Old Dummy (Part 572, Subpart N) (S24.2.1)
No CRS

NHTSA NO.: C95402 | TEST DATE: 3/26/09
LABORATORY: MGA | TECHNICIANS: WD
DUMMY TYPE: 6 Year Old | DUMMY SERIAL NO.: 153

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 Sitting on seat with back against seat back</td>
<td>Forward 9 *</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Position 2 Sitting on seat with back against reclined seat back</td>
<td>Forward 7 *</td>
<td>34.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>34.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>34.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Position 3 Sitting on seat edge, spine vertical, hands at dummy's sides</td>
<td>Forward</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Position 4 Sitting on seat with back against seat back then leaning on the door</td>
<td>Forward 9 *</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>10.7° on HRP</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

* 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; 24 = Full Rearward; 24 total Seat Slide detents)

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN507)
DATA SHEET 29 SUMMARY
Low Risk Deployment Tests Using an Unbelted 5th Percentile Female Dummy (Part 572, Subpart O) (S26) Position 1 - Chin On Module (S26.2)

<table>
<thead>
<tr>
<th>NHTSA NO.:</th>
<th>C95402</th>
<th>TEST DATE:</th>
<th>4/21/09</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>WD/AP</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>5th Percentile Female</td>
<td>DUMMY SERIAL NO.:</td>
<td>505</td>
</tr>
</tbody>
</table>

Manufacturer's design seat back angle: 10.7° on Headrest Post
Tested seat back angle: 10.7° on Headrest Post
Tested seat position: Full Aft
Tested steering wheel angle: 23.3°
Thorax cavity angle: 29.3°
Bottom of chin height: 1 mm - Above Plane F Module Height

Air Bag Deployment Timing

<table>
<thead>
<tr>
<th>Stage No.</th>
<th>Firing time (ms)</th>
<th>Recorded firing time (ms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>2</td>
<td>100.0</td>
<td>100.0</td>
</tr>
</tbody>
</table>

5th Percentile Female SN 505 Position 1 (Chin On Module) 4/21/09

<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>12</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.8</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>38.8</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>7.4</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>10.6</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>2.1</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2070 N</td>
<td>1236</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>314</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>9</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>6</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>78</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>62</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

The original equipment parts were used for this deployment.
DATA SHEET 30 SUMMARY
Low Risk Deployment Tests Using an Unbelted 5th Percentile Female Dummy (Part 572, Subpart O) (S26) Position 2 - Chin On Rim (S26.3)

<table>
<thead>
<tr>
<th>NHTSA NO.:</th>
<th>C95402</th>
<th>TEST DATE:</th>
<th>4/21/09</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>WD/AP</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>5th Percentile Female</td>
<td>DUMMY SERIAL NO.:</td>
<td>505</td>
</tr>
</tbody>
</table>

Manufacturer's design seat back angle: 10.7° on Headrest Post
Tested seat back angle: 10.7° on Headrest Post
Tested seat position: Full Aft

Tested steering wheel angle: 20.5 ° *
Thorax cavity angle: 26.5°
Chin Point height: 2 mm Below Steering Wheel Target
Note: The chin on rim steering wheel target is 10 mm below the highest point on the steering wheel

*The dummy contacted the windshield with the steering wheel at mid position. The steering controls were adjusted to lower the upper steering wheel rim the necessary amount to bring the Chin Point coincident with the upper steering wheel rim. The rear thorax cavity was adjusted along with the steering wheel angle.

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>100.0</td>
</tr>
</tbody>
</table>

5th Percentile Female SN 505 Position 2 (Chin On Rim) 4/21/09

<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>24</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>13.2</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>80.9</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>17.7</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>89.8</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2070 N</td>
<td>548</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>129</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>20</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>16</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>188</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>166</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

A new air bag and clockspring; and original equipment steering wheel and column were used for this deployment.
DATA SHEET 32
VEHICLE WEIGHT, FUEL TANK, AND ATTITUDE DATA

Test Vehicle: 2009 Mazda 6
Test Program: FMVSS 208 Compliance
Test Technician: Jamie Aide
NHTSA No.: C95402
Test Date: 5/7/09

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. 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: 70.0 liters (18.5 gallons)
5. Record the fuel tank capacity supplied in the owner’s manual.
   Useable Fuel Tank Capacity in owner’s manual: 70.0 liters (18.5 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: 70.0 liters (18.5 gallons)
7. Fill the coolant system to capacity.
8. Fill the engine with motor oil to the Max. mark on the dip stick.
9. Fill the brake reservoir with brake fluid to its normal level.
10. Fill the windshield washer reservoir to capacity.
11. Inflate the tires to the tire pressure on the tire placard. If no tire placard is available, inflate the tires to the recommended pressure in the owner’s manual.
   Tire placard pressure: RF: 32 psi LF: 32 psi RR: 32 psi LR: 32 psi
   Owner’s manual pressure: RF: 32 psi LF: 32 psi RR: 32 psi LR: 32 psi
   Actual inflated pressure: RF: 32 psi LF: 32 psi RR: 32 psi LR: 32 psi
12. Record the vehicle weight at each wheel to determine the unloaded vehicle weight (UVW), i.e. "as delivered" weight.
   Right Front (kg): 435.9 Right Rear (kg): 303.9
   Left Front (kg): 440.0 Left Rear (kg): 289.9
   Total Front (kg): 875.9 Total Rear (kg): 593.8
   % Total Weight: 59.6 % Total Weight: 40.4
   UVW = TOTAL FRONT PLUS TOTAL REAR (KG): 1469.7
13. UVW Test Vehicle Attitude: (All dimensions in millimeters)
13.1 Mark a point on the vehicle above the center of each wheel.
13.2 Place the vehicle on a level surface.
13.3 Measure perpendicular to the level surface to the 4 points marked on the body and record the measurements.
   RF: 722 LF: 725 RR: 731 LR: 731
14. Calculate the Rated Cargo and Luggage Weight (RCLW): 45 kg

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

- Yes, go to 14.3
- No, go to 14.2

14.2 VCW = Gross Vehicle Weight - UVW

VCW = __________ - __________ = __________

14.3 VCW = 385 kg (850 lbs)

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

- Yes, go to 14.6
- 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) = 385 kg - (68 kg x 5) = 45 kg

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

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

15. Fully Loaded Weight (100% fuel fill): 1613.0 kg

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

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

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

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

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

| Right Front (kg): | 460.9 | Right Rear (kg): | 356.1 |
| Left Front (kg):  | 458.1 | Left Rear (kg):  | 337.9 |
| Total Front (kg): | 919.0 | Total Rear (kg): | 694.0 |
| % Total Weight:   | 57.0  | % Total Weight:  | 43.0  |
| % GVW             | 52.7  | % GVW            | 47.5  |

(% GVW = Axle GVW divided by Vehicle GVW)

Fully Loaded Weight = Total Front Plus Total Rear (kg): 1613.0

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: 708   LF: 716   RR: 706   LR: 708

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 = 70.0 liters (18.5 gallons) x .94 = 65.8 liters (17.4 gallons)

Amount added: 65.1 liters (17.2 gallons) 93.0%

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)

\[
1612.7 \text{ kg} = 1469.7 \text{ kg} + 45.0 \text{ kg} + 98.0 \text{ kg}
\]

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

\[
\text{Max. Test Weight} = \text{Calculated Test Weight} - 4.5 \text{ kg} = 1608.2 \text{ kg}
\]

\[
\text{Min. Test Weight} = \text{Calculated Test Weight} - 9 \text{ kg} = 1603.7 \text{ kg}
\]

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:

- Spare tire, jack, trunk carpet, trunk floor cover and right rear tail light

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: 11.3 kg

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

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

<table>
<thead>
<tr>
<th></th>
<th>Right Front (kg)</th>
<th>Left Front (kg)</th>
<th>Total Front (kg)</th>
<th>% Total Weight</th>
<th>% GVW</th>
<th>(% GVW = Axle GVW divided by Vehicle GVW)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>454.1</td>
<td>460.9</td>
<td>915.0</td>
<td>57.0</td>
<td>52.7</td>
<td>52.7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Right Rear (kg)</th>
<th>Left Rear (kg)</th>
<th>Total Rear (kg)</th>
<th>% Total Weight</th>
<th>% GVW</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>354.3</td>
<td>337.0</td>
<td>691.3</td>
<td>43.0</td>
<td>47.5</td>
</tr>
</tbody>
</table>

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: 711
LF: 716
RR: 709
LR: 710

29.2 Is the “as tested” test attitude equal to or between the “fully loaded” and “as delivered” attitude?

Yes

No, explain why not.

REMARKS:

Signature: __________________ Date: 5/7/09

I certify that I have read and performed each instruction.
VEHICLE ACCELEROMETER LOCATION AND MEASUREMENT

Test Vehicle: 2009 Mazda 6
Test Program: FMVSS 208 Compliance
Test Technician: Jamie Aide

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: Jamie Date: 5/7/09
VEHICLE ACCELEROMETER LOCATION AND DATA SUMMARY

Dimensions Corresponding To The Letters “A” Through “K” (Excluding “I”) Are Recorded In The Table On The Following Page.
Accelerometers Corresponding To The Numbers 1 Through 8 Are Specified On The Preceding Page.
<table>
<thead>
<tr>
<th>DIMENSION</th>
<th>LENGTH (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong>  (LH Rear Seat Xmbr)</td>
<td>354</td>
</tr>
<tr>
<td><strong>B</strong>  (RH Rear Seat Xmbr)</td>
<td>396</td>
</tr>
<tr>
<td><strong>C</strong>  (Engine Top)</td>
<td>4037</td>
</tr>
<tr>
<td><strong>D</strong>  (Engine Bottom)</td>
<td>4092</td>
</tr>
<tr>
<td><strong>E</strong>  (Caliper) Right Side: 4042</td>
<td>Left Side: 4023</td>
</tr>
<tr>
<td><strong>F</strong>  (Left Caliper)</td>
<td>722</td>
</tr>
<tr>
<td><strong>G</strong>  (IP)</td>
<td>3228</td>
</tr>
<tr>
<td><strong>H</strong>  (Seat)</td>
<td>1947</td>
</tr>
<tr>
<td><strong>J</strong>  (Right Caliper)</td>
<td>722</td>
</tr>
<tr>
<td><strong>K</strong>  (Trunk)</td>
<td>979</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>PRETEST VALUES</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>POST TEST VALUES</strong></td>
</tr>
<tr>
<td>-------------------</td>
</tr>
<tr>
<td><strong>A</strong>  (LH Rear Seat Xmbr)</td>
</tr>
<tr>
<td><strong>B</strong>  (RH Rear Seat Xmbr)</td>
</tr>
<tr>
<td><strong>C</strong>  (Engine Top)</td>
</tr>
<tr>
<td><strong>D</strong>  (Engine Bottom)</td>
</tr>
<tr>
<td><strong>E</strong>  (Caliper) Right Side: 4108</td>
</tr>
<tr>
<td><strong>F</strong>  (Left Caliper)</td>
</tr>
<tr>
<td><strong>G</strong>  (IP)</td>
</tr>
<tr>
<td><strong>H</strong>  (Seat)</td>
</tr>
<tr>
<td><strong>J</strong>  (Right Caliper)</td>
</tr>
<tr>
<td><strong>K</strong>  (Trunk)</td>
</tr>
</tbody>
</table>
DATA SHEET 34
PHOTOGRAPHIC TARGETS

Test Vehicle: 2009 Mazda 6
Test Program: FMVSS 208 Compliance
Test Technician: Jamie Aide
NHTSA No.: C95402
Test Date: 5/7/09

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. **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): 920 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): 613 mm
   1.8 Two circular targets (C1 and C2) at least 90 mm in diameter and with black and yellow quadrants are mounted on the outside of the passenger door. The centers of each circular target are at least 610 mm apart.
      Distance between targets (mm): 613 mm
   1.9 Place tape with squares having alternating colors on the top portion of the steering wheel.
   1.10 Chalk the bottom portion of the steering wheel.
   1.11 Is this an offset test?
      Yes, continue with this section
      No, go to 2.
   1.12 Measure the width of the vehicle.
      Vehicle width (mm):
   1.13 Find the centerline of the vehicle. (½ of the vehicle width)
   1.14 Find the line parallel to the centerline of the vehicle and 0.1 x vehicle width from the centerline of the vehicle.
1.15 Apply 25 mm wide tape with alternating black and yellow squares parallel to and on each side of the line found in 1.14. The edge of each tape shall be 50 mm from the line found in 1.14. The tape shall extend from the bottom of the bumper to the front edge of the windshield. (Figure 28D)

2. **Barrier Targeting**

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

2.2 Targets D1 and D2 are on a rectangular panel.

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

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

3. **FMVSS 208 Dummy Targeting Requirements**

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

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

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

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

4. **FMVSS 204 Targeting Requirements**

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

- [ ] Yes, continue with this form.
- [X] 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.

REMARKS:

Signature: ____________________ Date: 5/7/09

I certify that I have read and performed each instruction.
RESECTION PANEL TARGETING ALIGNMENT

CAR TOP TARGETS A1 & A2

RESECTION CONTROL POINTS PANEL

STEERING COLUMN TARGET B

REAR VIEW

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

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

LEFT SIDE VIEW

914 mm

914 mm
# DATA SHEET 35
## CAMERA LOCATIONS

<table>
<thead>
<tr>
<th>CAMERA NO.</th>
<th>VIEW</th>
<th>CAMERA POSITIONS (mm) *</th>
<th>LENS (mm)</th>
<th>SPEED (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>X</td>
<td>Y</td>
<td>Z</td>
</tr>
<tr>
<td>1</td>
<td>Real Time Left Side View</td>
<td></td>
<td>13</td>
<td>24</td>
</tr>
<tr>
<td>2</td>
<td>Left Side View (Barrier face to front seat backs)</td>
<td>1190</td>
<td>-5060</td>
<td>1150</td>
</tr>
<tr>
<td>3</td>
<td>Left Side View (Driver)</td>
<td>1420</td>
<td>-5410</td>
<td>1290</td>
</tr>
<tr>
<td>4</td>
<td>Left Side View (B-post aimed toward center of steering wheel)</td>
<td>5420</td>
<td>-4720</td>
<td>2090</td>
</tr>
<tr>
<td>5</td>
<td>Left Side View (Steering Column)</td>
<td>1360</td>
<td>-5480</td>
<td>1150</td>
</tr>
<tr>
<td>6</td>
<td>Left Side View (Steering Column)</td>
<td>1360</td>
<td>-5410</td>
<td>750</td>
</tr>
<tr>
<td>7</td>
<td>Right Side View (Overall)</td>
<td>2050</td>
<td>6180</td>
<td>1060</td>
</tr>
<tr>
<td>8</td>
<td>Right Side View (Passenger)</td>
<td>1550</td>
<td>6330</td>
<td>1340</td>
</tr>
<tr>
<td>9</td>
<td>Right Side View (Angle)</td>
<td>5640</td>
<td>4900</td>
<td>2030</td>
</tr>
<tr>
<td>10</td>
<td>Right Side View (Front door)</td>
<td>1170</td>
<td>5170</td>
<td>1220</td>
</tr>
<tr>
<td>11</td>
<td>Front View Windshield</td>
<td>-285</td>
<td>0</td>
<td>2860</td>
</tr>
<tr>
<td>12</td>
<td>Front View Driver</td>
<td>-135</td>
<td>-470</td>
<td>2180</td>
</tr>
<tr>
<td>13</td>
<td>Front View Passenger</td>
<td>-110</td>
<td>420</td>
<td>2180</td>
</tr>
<tr>
<td>14</td>
<td>Overhead Barrier Impact View</td>
<td>1620</td>
<td>0</td>
<td>5050</td>
</tr>
<tr>
<td>15</td>
<td>Pit Camera Engine View</td>
<td>1110</td>
<td>0</td>
<td>-3150</td>
</tr>
<tr>
<td>16</td>
<td>Pit Camera Fuel Tank View</td>
<td>2605</td>
<td>0</td>
<td>-3150</td>
</tr>
</tbody>
</table>

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

Test Vehicle: 2009 Mazda 6
Test Program: FMVSS 208 Compliance
NHTSA No.: C95402
Test Date: 5/7/09
Test Date: 5/7/09
Time: 10:40 am
DATA SHEET 36 - APPENDIX G
DUMMY POSITIONING PROCEDURES
FOR 5th PERCENTILE FEMALE DRIVER TEST DUMMY
CONFORMING TO SUBPART O OF PART 572

Test Vehicle: 2009 Mazda 6
Test Program: FMVSS 208 Compliance
Test Technician: Tim Bratz
NHTSA No.: C95402
Test Date: 5/7/09

<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>

Seating Procedure 5th Percentile Female Driver Dummy (Part 572, Subpart O) (S16.2-S16.3)

1. Seat Position

X 1.1 Position the seat's adjustable lumbar supports so that the lumbar supports are in the lowest, retracted or deflated adjustment positions. (S16.2.10.1, S20.1.9.1, S20.4.1, S22.1.7.1)
X N/A – No lumbar adjustment

X 1.2 Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2, S20.1.9.2, S20.4.1, S22.1.7.1, S22.4.2.1, S22.4.3.1, S24.4.2.1, S26.2.3, S26.3.1)
X N/A – No additional support adjustment

X 1.3 Position an adjustable leg support system in its rearmost position. (8/27/04 interpretation to Toyota)
X N/A – No adjustable leg support system

X 1.4 Mark a point (seat cushion reference point) on the side of the seat cushion that is between 150 mm and 250 mm from the front edge of the seat cushion. (S16.3.1.12)

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

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

X 1.7 If the seat cushion adjusts fore-aft, independent of the seat back, use only the controls that primarily move the seat cushion in the fore-aft direction to move the seat cushion reference point to the rearmost position. (S16.2.10.3.1, S20.1.9.3)
X N/A – No independent fore-aft seat cushion adjustment

X 1.8 Use any part of any control, other than the parts just used for fore-aft positioning, to determine the range of angles of the seat cushion reference line and to set the seat cushion reference line at the mid-angle. (S16.2.10.3.1)
  Maximum angle Zero
  Minimum angle Zero
  Mid-angle Zero

Test Vehicle: 2009 Mazda 6
Test Program: FMVSS 208 Compliance
Test Technician: Tim Bratz
NHTSA No.: C95402
Test Date: 5/7/09
X. 1.9 If the seat and/or seat cushion height is adjustable, use any part of any control other than the parts which primarily move the seat or seat cushion fore-aft, to put the seat cushion reference point in its lowest position with the seat cushion reference line angle at the mid-angle found in 1.8. (S16.2.10.3.1)
__N/A – No seat height adjustment

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

X. 1.11 Use only the controls that primarily move the seat in the fore-aft direction to mark the fore-aft seat positions. Mark each position so that there is a visual indication when the seat is at a particular position. For manual seats, move the seat forward one detent at a time and mark each detent. For power seats, mark only the rearmost, middle, and foremost positions. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the closest adjustment position to the rear of the mid-point), and R for rearmost.

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

X. 1.13 Use any part of any control, other than the parts which primarily move the seat or seat cushion fore-aft, to find and visually mark the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.8. (S20.1.9.4, S22.1.2, S22.1.7.4, S22.3.1, S22.4.3.1, S24.1.2, S24.3.1, S24.4.3.1, S26.2.3, S26.3.1)
__ N/A – No seat height adjustment. Go to 1.18

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

X. 1.15 Use any part of any control, other than the parts which primarily move the seat or seat cushion fore-aft, to find and visually mark the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.8. (S20.1.9.4, S22.1.2, S22.1.7.4, S22.3.1, S24.1.2, S24.3.1)

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

X. 1.17 Use any part of any control, other than the parts which primarily move the seat or seat cushion fore-aft, to find and visually mark the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.8. (S16.2.10.3.3, S20.1.9.4, S22.1.2, S22.1.7.4, S22.3.1, S24.1.2, S24.3.1)

X. 1.18. Is the seat a bucket seat?
   X. Yes, go to 1.19 and skip 1.20
   __No, go to 1.20 and skip 1.19

X. 1.19 Bucket seats:
   Locate and mark for future reference the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S16.3.1.10 & S20.1.10)
1.20 Bench seats (complete ONLY the one that is applicable to the seat being marked):
Locate and mark for future reference the longitudinal line on the seat cushion that marks the intersection of the vertical longitudinal plane through the centerline of the steering wheel and the seat cushion upper surface.

2. Head Restraint Position
__N/A Vehicle contains automatic head restraints.
__N/A, there is no head restraint adjustment Go to 3

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

X 2.2 All adjustments of the head restraint shall be used to position it full forward. For example, if it rotates, rotate it such that the head restraint extends as far forward as possible. Mark the foremost position. (S16.2.10.2 & S16.3.4.4 & S20.1.9.6, S20.4.1, S22.4.2.1, S22.4.3.1, S24.4.3.1, S26.2.3, S26.3.1)

X 2.3 Measure the vertical distance from the top most point of the head restraint to the bottom most point. Locate and mark a horizontal plane through the midpoint of this distance. (S16.3.4.3)
Vertical height of head restraint _210_ mm
Mid-point height _105_ mm

X 3. Is the _steering wheel_ adjustable up and down and/or in and out?
X  _Yes – go to 3.1
X  _No – Go to 4

X 3.1. Find and mark for future reference each up and down position. Label three of the positions with the following: H for highest, M for mid-position (if there is no mid-position, label the next lowest adjustment position), and L for lowest.
__N/A – steering wheel is not adjustable up and down

X 3.2. 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.

X 3.3. Use the markings to position the steering controls in the mid-position or if applicable next lowest detent position. (S16.2.9)

X 4. Place the SCRP in the full rearward, mid-height position, and mid-seat cushion angle, determined in Item 1. (S16.3.2.1.1)

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

X 6. Fully recline the seat back. (S16.3.2.1.2)
__N/A seat back not adjustable.

X 7. Place the dummy in the seat with the legs at an angle of 120 degrees to the thighs. The calves should not be touching the seat cushion. (S16.3.2.1.2)

X 8. Position the dummy in the seat such that the midsagittal plane is coincident with the longitudinal seat cushion markings as determined in Item 1.19 or 1.20. (S16.3.2.1.3 and S16.3.2.1.4)
X. 9. Hold down the dummy’s thighs and push rearward on the upper torso to maximize the pelvic angle. (S16.3.2.1.5)

X. 10. Set the angle between the legs and the thighs to 120 degrees. (S16.3.2.1.6)

X. 11. 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 1.19 or 1.20. (S16.3.2.1.6)

Record Knee Separation _166____

X. 12. Push rearward on the dummy’s knees until the pelvis contacts the seat back, or the backs of the calves contact the seat cushion, whichever occurs first. (S16.3.2.1.6)

__Pelvis contacted seat back.

X. 13. Gently rock the upper torso ± 5 degrees (approximately 51 mm (2 inches)) side-to-side three time. (S16.3.2.1.7)

X. 14. If needed, extend the legs until the feet do not contact the floor pan. The thighs should be resting on the seat cushion. (S16.3.2.1.8)

X. 15. Position the right foot until the foot is in line with a longitudinal vertical plane passing through the center of the accelerator pedal. Maintain the leg and thigh in a vertical plane. (S16.3.2.1.8)

X. 16. Rotate the left leg and thigh laterally to equalize the distance between each knee and the longitudinal seat cushion marking as determined in Item 1.19 or 1.20. (S16.3.2.1.8)

X. 17. Attempt to return the seat to the foremost fore-aft position, mid-height, and seat cushion mid-angle as determined in Item 1. 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 22.

__Foremost not achieved because of foot interference. Proceed to step 19.

__Foremost not achieved because of steering wheel contact.

__18. If either of the dummy’s legs contact the steering wheel, move the steering wheel up the minimum amount required to avoid contact. If the steering wheel is not adjustable separate the knees the minimum required to avoid contact. (S16.3.2.1.8)

__N/A- there was no leg contact

__Steering wheel repositioned

__Knees separated

__19. 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.
20. Continue to move the seat. Use seat controls to line up the seat markings determined during item 1 to set the foremost fore-aft position, mid-height position and the seat cushion mid-angle. If the dummy contacts the interior move the seat rearward until a maximum clearance of 5 mm (0.2 inches) is achieved or the seat is in the closest detent position that does not cause dummy contact. (S16.3.2.1.8)

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

Dummy contact. Clearance set at maximum of 5mm

*Measured Clearance______________*

Dummy Contact. Seat set at nearest detent position.

Seat position ___ detent positions rearward of foremost

(foremost is position zero)

21. If the steering wheel was repositioned in step 18, 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)

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

**Head Level Achieved.**

*Head leveled using the adjustable seat back*

*Head leveled using the neck bracket.*

Head Angle 0.2_________ degrees

**Head Level NOT Achieved.**

*Head adjusted using the adjustable seat back*

*Head adjusted using the neck bracket.*

Head Angle ____________ degrees

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

**No interference**

Pelvis moved forward the minimum amount so that it is not caught in the seat bight.

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

**Abdomen still seated properly into dummy**

Abdomen was adjusted because it was not seated properly into dummy
X_25. Head Angle
   X_ N/A, neither the pelvis nor the abdomen were adjusted.

   __25.1 Head still level (Go to 26)

   __25.2 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

X_26. If the dummy torso contacts the steering wheel while performing step 22, reposition the
steering wheel in the following order to eliminate contact. (S16.3.2.1.9)
   X_ N/A, No dummy torso contact with the steering wheel.

   __26.1 Adjust telescoping mechanism.
      __N/A No telescoping adjustment.
      __Adjustment performed (fill in appropriate change)
         Steering wheel moved ____ detent positions in the forward direction.
         Steering wheel moved ____ mm in the forward direction.

   __26.2 Adjust tilt mechanism.
      __N/A No tilt adjustment.
      __No adjustment performed.
      __Adjustment performed. (circle one)
         Steering wheel moved ____ detent positions Upward/Downward.
         Steering wheel moved ____ degrees Upward/Downward

   __26.3 Adjust Seat in the aft direction.
      __No Adjustment performed.
      __Seat moved aft ____ mm from original position.
      __Seat moved aft ____ detent positions from the original position.

X_27. Measure and set the pelvic angle using the pelvic angle gage TE-2504. The pelvic
angle should be 20.0 degrees ± 2.5 degrees. If the pelvic angle cannot be set to the
specified range because the head will not be level or because the dummy will have need
major repositioning, adjust the pelvis as closely as possible to the angle range, but keep
the head level. (S16.3.2.1.11)
   X_ Pelvic angle set to 20.0 degrees ± 2.5 degrees.
   __Pelvic angle of 20.0 degrees not achieved, the angular difference was minimized.
   X_ Record the pelvic angle. __ 21.1 ______ degrees

X_28. Check the dummy for contact with the interior after completing adjustments.
   (S16.3.2.1.12)
   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_ 29. Check the dummy to see if additional interior clearance is obtained, allowing the seat to be moved forward. (S16.3.2.1.12)  
_ _N/A, Seat already at foremost position.  
_ _Clearance unchanged. No adjustments required.  
_ _Additional clearance available  
_ _Seat moved Forward ___ mm from the previous position.  
_ _Seat moved Forward ___ detent positions from the previous position.

_ _X_ 30. 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 31 otherwise, proceed to step 32. (S16.3.2.2.1)

_ _X_ 31. Perform the following steps until either all steps are completed, or the foot contacts the accelerator pedal. Step 31.6 shall be completed in all cases. (S16.3.2.2.1(a))  
_ _X_ 31.1 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.  
_ _31.2 If the vehicle has an adjustable accelerator pedal, move the pedals rearward until pedal contact occurs or the pedals reach the full rearward position.  
_ _31.3 Extend the leg, allowing the heel to lose contact with the floor until the foot contacts the pedal. Do not raise the toe of the foot higher than the top of the accelerator pedal. If the foot does not contact the pedal, proceed to the next step. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.3)  
_ _31.4 Angle the foot to achieve contact between the foot and the pedal. If the foot does not contact the pedal, return the foot to the perpendicular orientation. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.3)  
_ _31.5 Align the centerline of the foot with the vertical-longitudinal plane passing through the center of the accelerator pedal. Place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.3)  

_ _X_ 31.6 Record foot position  
_ _ _Pedal Contact achieved. Contact occurred at step ___ 31.1__.  
_ _ _Heel contacts floor pan  
_ _ _ _Heel set ___ mm from floor pan.  
_ _ _Pedal Contact not achieved. Heel set ___ mm from the floor pan.
__32. Perform the following steps until either all steps are completed, or the foot contacts the accelerator pedal. Step 30.5 shall be completed in all cases.

__32.1 Extend the leg until the foot contacts the pedal. Do not raise the toe of the foot higher than the top of the accelerator pedal. If the foot does not contact the pedal, proceed to the next step. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.1(b) & S16.3.2.2.3)

__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. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.1(b) & S16.3.2.2.3)

___ N/A No pedal adjustment

__32.3 Angle the foot to achieve contact between the foot and the pedal. If the foot does not contact the pedal, return the foot to the perpendicular orientation. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.2 & S16.3.2.2.3)

__32.4 Align the centerline of the foot in the same horizontal plane as the centerline of the accelerator pedal. Place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.3)

__32.5 Record foot position
   ___ Pedal Contact achieved. Contact occurred at step _______.
   ___ Heel set _____ mm from floor pan.
   ___ Pedal Contact not achieved. Heel set _____ mm from the floor pan.

X 33. Driver's foot positioning, left 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 33.2, otherwise position the leg as perpendicular to the thigh as possible with the foot parallel to the floor pan. (S16.2.2.6)

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

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

Record foot position.

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

Driver arm/hand positioning.

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)

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)

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)

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

Adaptable head restraints

- N/A, there is no head restraint adjustment

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 36.

Adjust each head restraint vertically so that the mid-horizontal plane determined in Item 2 is aligned with the center of gravity (CG) of the dummy head. (S16.3.4.3)
X_35.3 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

_35.4 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_36. Driver and passenger manual belt adjustment (for tests conducted with a belted dummy). (S16.3.5)
   X_ N/A Dummies are unbelted for this test.

_36.1 If an adjustable seat belt D-ring anchorage exists, place it in the manufacturer’s design position for a 5th percentile adult female. (S16.3.5.1) **This information will be supplied by the COTR.**
   Manufacturer’s specified position ______________________________
   Actual Position_____________________________________________

_36.2 Place the Type 2 manual belt around the test dummy and fasten the latch. (S16.3.5.2)

_36.3 Ensure that the dummy’s head remains as level as possible. (S16.3.5.3)

_36.4 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)

I certify that I have read and performed each instruction.

Signature: ______________________ Date: 5/7/09
DATA SHEET 36 - APPENDIX G
DUMMY POSITIONING PROCEDURES
FOR 5th PERCENTILE FEMALE PASSENGER TEST DUMMY
CONFORMING TO SUBPART O OF PART 572

Test Vehicle: 2009 Mazda 6  
Test Program: FMVSS 208 Compliance  
Test Technician: Dustin Underwood

| 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 |

(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)

1. Seat Position

X 1.1 Position the seat’s adjustable lumbar supports so that the lumbar supports are in the lowest, retracted or deflated adjustment positions. (S16.2.10.1, S20.1.9.1, S20.4.1, S22.1.7.1)

X N/A – No lumbar adjustment

X 1.2 Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2, S20.1.9.2, S20.4.1, S22.1.7.1, S22.4.2.1, S22.4.3.1, S24.4.2.1, S26.2.3, S26.3.1)

X N/A – No additional support adjustment

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

X N/A – No adjustable leg support system

X 1.4 **Mark** a point (seat cushion reference point) on the side of the seat cushion that is between 150 mm and 250 mm from the front edge of the seat cushion. (S16.3.1.12)

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

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

X 1.7 If the seat cushion adjusts fore-aft, independent of the seat back, use only the controls that primarily move the seat cushion in the fore-aft direction to move the seat cushion reference point to the rearmost position. (S16.2.10.3.1, S20.1.9.3)

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

Test Vehicle: 2009 Mazda 6  
Test Program: FMVSS 208 Compliance  
Test Technician: Dustin Underwood

Test Date: 5/7/09

NHTSA No.: C95402
1.8 Use any part of any control, other than the parts just used for fore-aft positioning, to determine the range of angles of the seat cushion reference line and to set the seat cushion reference line at the mid-angle. (S16.2.10.3.1)
   Maximum angle Zero
   Minimum angle Zero
   Mid-angle Zero

1.9 If the seat and/or seat cushion height is adjustable, use any part of any control other than the parts which primarily move the seat or seat cushion fore-aft, to put the seat cushion reference point in its lowest position with the seat cushion reference line angle at the mid-angle found in 1.8. (S16.2.10.3.1)
   X N/A – No seat height adjustment

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

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

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

1.13 Use any part of any control, other than the parts which primarily move the seat or seat cushion fore-aft, to find and visually mark the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.8. (S20.1.9.4, S22.1.2, S22.1.7.4, S22.3.1, S22.4.3.1, S24.1.2, S24.3.1, S24.4.3.1, S26.2.3, S26.3.1)
   X N/A – No seat height adjustment. Go to 1.18

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

1.15 Use any part of any control, other than the parts which primarily move the seat or seat cushion fore-aft, to find and visually mark the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.8. (S20.1.9.4, S22.1.2, S22.1.7.4, S22.3.1, S24.1.2, S24.3.1)

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

1.17 Use any part of any control, other than the parts which primarily move the seat or seat cushion fore-aft, to find and visually mark the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.8. (S16.2.10.3.3, S20.1.9.4, S22.1.2, S22.1.7.4, S22.3.1, S24.1.2, S24.3.1)

1.18 Is the seat a bucket seat?
   X Yes, go to 1.19 and skip 1.20
   __ No, go to 1.20 and skip 1.19
X_1.19 Bucket seats:
Locate and mark for future reference the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S16.3.1.10 & S20.1.10)

__1.20 Bench seats:
Locate and mark the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S20.2.1.4, S22.2.1.3, S24.2.3, S20.4.4, S22.2.2.1(b), S22.2.2.3(b), S22.2.2.4(a), S22.2.2.5(a), S22.2.2.6(a), S22.2.2.7(a), S24.2.3(a))
Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel. _______
Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion. (The vertical plane through this longitudinal centerline is Plane B for suppression.) _______

2. Head Restraint Position
__N/A Vehicle contains automatic head restraints.
__N/A, there is no head restraint adjustment Go to 3

X_2.1 Adjust the head restraint to its lowest position. (S16.2.10.2, S20.1.9.6 S20.4.1, S22.1.7.6, S22.4.2.1, S22.4.3.1, S24.4.3.1, S26.2.3, S26.3.1)

X_2.2 All adjustments of the head restraint shall be used to position it full forward. For example, if it rotates, rotate it such that the head restraint extends as far forward as possible. Mark the foremost position. (S16.2.10.2 & S16.3.4.4 & S20.1.9.6, S20.4.1, S22.4.2.1, S22.4.3.1, S24.4.3.1, S26.2.3, S26.3.1)

X_2.3 Measure the vertical distance from the top most point of the head restraint to the bottom most point. Locate and mark a horizontal plane through the midpoint of this distance. (S16.3.4.3)
  Vertical height of head restraint _210_ mm
  Mid-point height _105_ mm

X_3. Place the SCR in the full rearward, mid-height position, and mid-seat cushion angle. (S16.3.3.1.1)

X_4. Fully recline the seat back. (S16.3.3.1.2)
__ N/A seat back not adjustable.

X_5. Place the dummy in the seat with the legs at an angle of 120 degrees to the thighs. The calves should not be touching the seat cushion. (S16.3.3.1.2)

X_6. Position the dummy in the seat such that the midsagittal plane is coincident with the longitudinal seat cushion marking that was determined in item 1.19 or 1.20. (S16.3.3.1.3 and S16.3.3.1.4)

X_7. Hold down the dummy’s thighs and push rearward on the upper torso to maximize the pelvic angle. (S16.3.3.1.5)

X_8. Set the angle between the legs and the thighs to 120 degrees. (S16.3.3.1.6)
9. Set the transverse distance between the centers of the front of the knees at 160 to 170 mm. (6.3 to 6.7 inches). Center the knee separation with respect to the longitudinal seat cushion marking that was determined in item 1.19 or 1.20. (S16.3.3.1.6)

Record Knee Separation: 165

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

_Pelvis contacted seat back._
_X_Calves contacted seat cushion._

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

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

13. Use seat controls to line up the seat markings determined during the completion of item 1 to set the foremost fore-aft position, mid-height position and the seat cushion mid-angle. If the dummy contacts the interior move the seat rearward until a maximum clearance of 5 mm (0.2 inches) is achieved or the seat is in the closest detent position that does not cause dummy contact. (S16.3.3.1.8)

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

 Dummy contact. Clearance set at maximum of 5mm

Measured Clearance

Dummy Contact. Seat set at nearest detent position.

Seat position___ detent positions rearward of foremost
(foresmost is position zero)

14. 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 0.1 degrees

Head Level NOT Achieved. (Check all that apply)

Head adjusted using the adjustable seat back

Head adjusted using the neck bracket.

Head Angle_________ degrees

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

No interference

Pelvis moved forward the minimum amount so that it is not caught in the seat bight.

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

Abdomen still seated properly into dummy

Abdomen was adjusted because it was not seated properly into dummy

17. Head Angle

N/A, neither the pelvis nor the abdomen were adjusted.
X 17.1 Head still level (Go to 18)

X 17.2 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 18. Measure and set the pelvic angle using the pelvic angle gage TE-2504. The pelvic angle should be 20.0 degrees ± 2.5 degrees. If the pelvic angle cannot be set to the specified range because the head will not be level or because the dummy will have need major repositioning, adjust the pelvis as closely as possible to the angle range, but keep the head level.
   X Pelvic angle set to 20.0 degrees ± 2.5 degrees.
   __Pelvic angle of 20.0 degrees not achieved, the angular difference was minimized.
   X Record the pelvic angle. ___21.7________ degrees

X 19. 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 20. Verify the transverse instrument platform of the dummy head is level +/- 0.5 degrees. Use the lower neck bracket adjustment to level the head. If a level position cannot be achieved, minimize the angle. (S16.3.3.1.9, S16.3.3.1.10, and S16.3.3.1.11)
   X Head Level Achieved
      Head Angle ___0.1______ degrees
   __Head Level NOT Achieved.
      Head Angle ____________ degrees

X 21. 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 22. Passenger foot positioning. (Indicate final position achieved) (S16.3.3.2)
   __22.1 Place feet flat on the toe board; OR (S16.3.3.2.1)
   __22.2 If the feet cannot be placed flat on the toe board, set the feet perpendicular to the lower leg, and rest the heel as far forward on the floor pan as possible; OR (S16.3.3.2.2)
   __22.3 If the heels do not touch the floor pan, set the legs as perpendicular to the thighs as possible and set the feet parallel to the floor pan. (S16.3.3.2.2)
X_23. Passenger arm/hand positioning. (S16.3.3.3)

X_23.1 Place the dummy’s upper arms adjacent to the torso with the arm centerlines as close to a vertical longitudinal plane as possible. (S16.3.3.3.1)

X_23.2 Place the palms of the dummy in contact with the outer part of the thighs (S16.3.3.3.2)

X_23.3 Place the little fingers in contact with the seat cushion. (S16.3.3.3.3)

X_24. Adjustable head restraints (S16.3.4)

__N/A, there is no head restraint adjustment

__24.1 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 25.

__24.2 Adjust each head restraint vertically so that the horizontal plane determined in Item 2 is aligned with the center of gravity (CG) of the dummy head. (S16.3.4.3)

X_24.3 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

__24.4 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_25. Manual belt adjustment (for tests conducted with a belted dummy) S16.3.5

__N/A, Unbelted test

__25.1 If an adjustable seat belt D-ring anchorage exists, place it in the manufacturer’s design position for a 5th percentile adult female. This information will be supplied by the COTR. (S16.3.5.1)

Manufacturer’s specified position ________________________________
Actual Position ________________________________

__25.2 Place the Type 2 manual belt around the test dummy and fasten the latch. (S16.3.5.2)

__25.3 Ensure that the dummy’s head remains as level as possible. (S16.3.5.3)

__25.4 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)

I certify that I have read and performed each instruction.

Signature: ___________________________ Date: 5/7/09
DATA SHEET 37
DUMMY MEASUREMENTS

Test Vehicle: 2009 Mazda 6
Test Program: FMVSS 208 Compliance
Test Technician: Tim Bratz

DUMMY MEASUREMENTS FOR FRONT SEAT OCCUPANTS

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

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

Test Vehicle: 2009 Mazda 6
Test Program: FMVSS 208 Compliance
Test Technician: Tim Bratz
NHTSA No.: C95402
Test Date: 5/7/09
## DATA SHEET 37
### DUMMY MEASUREMENTS

**Test Vehicle:** 2009 Mazda 6  
**NHTSA No.:** C95402  
**Test Program:** FMVSS 208 Compliance  
**Test Technician:** Tim Bratz

**Test Date:** 5/7/09

### TEST DUMMY POSITION MEASUREMENTS

<table>
<thead>
<tr>
<th>Code</th>
<th>Measurement Description</th>
<th>Driver SN 511</th>
<th>Passenger SN 516</th>
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<td></td>
<td>Length (mm)</td>
<td>Angle (°)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Angle (°)</td>
<td>Length (mm)</td>
</tr>
<tr>
<td>WA</td>
<td>Windshield Angle</td>
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<td></td>
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<tr>
<td>SWA</td>
<td>Steering Wheel Angle</td>
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<tr>
<td>SCA</td>
<td>Steering Column Angle</td>
<td>23.2</td>
<td></td>
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<tr>
<td>SA</td>
<td>Seat Back Angle (On Headrest Post)</td>
<td>10.4</td>
<td>9.7</td>
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<tr>
<td>HZ</td>
<td>Head to Roof (Z)</td>
<td>186</td>
<td>191</td>
</tr>
<tr>
<td>HH</td>
<td>Head to Header</td>
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<tr>
<td>HW</td>
<td>Head to Windshield</td>
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<td>633</td>
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<tr>
<td>HR</td>
<td>Head to Side Header (Y)</td>
<td>230</td>
<td>244</td>
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<td>NR</td>
<td>Nose to Rim</td>
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<td>CD</td>
<td>Chest to Dash</td>
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<td>Chest to Steering Hub</td>
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<td>RA</td>
<td>Rim to Abdomen</td>
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<tr>
<td>KDL</td>
<td>Left Knee to Dash</td>
<td>115</td>
<td>84</td>
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<tr>
<td>KDR</td>
<td>Right Knee to Dash</td>
<td>107</td>
<td>43.4</td>
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<td>PA</td>
<td>Pelvic Angle</td>
<td>21.1</td>
<td>21.7</td>
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<tr>
<td>TA</td>
<td>Tibia Angle</td>
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<td>46.3</td>
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<tr>
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<td>Knee to Knee (Y)</td>
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<tr>
<td>SK</td>
<td>Striker to Knee</td>
<td>696</td>
<td>98.5</td>
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<tr>
<td>ST</td>
<td>Striker to Head</td>
<td>474</td>
<td>485</td>
</tr>
<tr>
<td>SH</td>
<td>Striker to H-Point</td>
<td>406</td>
<td>115.5</td>
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<tr>
<td>SHY</td>
<td>Striker to H-Point (Y)</td>
<td>314</td>
<td>316</td>
</tr>
<tr>
<td>HS</td>
<td>Head to Side Window</td>
<td>361</td>
<td>357</td>
</tr>
<tr>
<td>HD</td>
<td>H-Point to Door (Y)</td>
<td>186</td>
<td>156</td>
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<tr>
<td>AD</td>
<td>Arm to Door (Y)</td>
<td>159</td>
<td>173</td>
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<tr>
<td>AA</td>
<td>Ankle to Ankle</td>
<td>285</td>
<td>169</td>
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</tbody>
</table>
SEAT BELT POSITIONING DATA

DUMMY’S CENTERLINE

SHOULDER BELT PORTION

TBI

'D' RING

SHOULDER BELT PORTION

1/8" THICK ALUMINUM PLATE

BUCKLE ASSEMBLY

EMERGENCY LOCKING RETRACTOR

OUTBOARD ANCHORAGE

INBOARD ANCHORAGE

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 - Top surface of reference to belt lower edge</td>
<td>mm</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
DATA SHEET 38
CRASH TEST

Test Vehicle: 2009 Mazda 6
Test Program: FMVSS 208 Compliance
Test Technician: Tim Bratz

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.
5. Instrumentation and wires are placed so motion of 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.
   220 kpa front left tire
   220 kpa front right tire
   220 kpa rear left tire
   220 kpa rear right tire
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. Are the heads still level?
   X Yes, go to 14
   No, Adjust dummy so that head is at the angle recorded in the Appendix F or G data sheets and then continue.
15. Doors closed and latched but not locked.
16. Posttest zero and shunt calibration checks performed and recorded.
17. Actual test speed 39.9 kmph
18. Vehicle rebound from the barrier 757.0 cm
19. 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.
20. Describe the contact points of the dummy with the interior of the vehicle.
   X Driver Dummy: Head to Air Bag, Windshield and Bolster; Chest to Air Bag; Knees to Knee Bolster.
   X Passenger Dummy: Head to Air Bag and Headrest; Chest to Air Bag; Knees to Glove Box.

REMARKS:

Signature: ___________________________ Date: 5/7/09

I certify that I have read and performed each instruction.
## DATA SHEET NO. 40
### ACCIDENT INVESTIGATION MEASUREMENTS

<table>
<thead>
<tr>
<th>Test Vehicle:</th>
<th>2009 Mazda 6</th>
<th>NHTSA No.: C95402</th>
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<tbody>
<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
<td>Test Date: 5/7/09</td>
</tr>
<tr>
<td>Test Technician:</td>
<td>Jamie Aide</td>
<td></td>
</tr>
</tbody>
</table>

| 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  |

| Vehicle Year/Make/Model/Body Style: | 2009 Mazda 6 Passenger Car |
| VIN:                                | 1YVHP80A695M23827          |
| Wheelbase:                          | 2790 mm                   |
| Build Date:                         | 10/08                     |
| Vehicle Size Category:              | 3                         |
| Test Weight:                        | 1606.2 kg                 |
| Front Overhang:                     | 984 mm                    |
| Overall Width:                      | 1839 mm                   |
| Overall Length Center:              | 4865 mm                   |

### Accelerometer Data

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

| Integration Algorithm: | Trapezoidal |
| Vehicle Impact Speed:  | 39.9 kmph   |
| Time of Separation:    | 125.2 ms    |
| Velocity Change:       | 46.6 kmph   |
**CRUSH PROFILE**

Collision Deformation Classification: 12FDEW6  
Midpoint of Damage: Vehicle Longitudinal Centerline  
Damage Region Length (mm): 1372  
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>
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<tbody>
<tr>
<td>C1</td>
<td>Crush zone 1 at left side</td>
<td>Mm</td>
<td>4664</td>
<td>4333</td>
<td>331</td>
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<tr>
<td>C2</td>
<td>Crush zone 2 at left side</td>
<td>mm</td>
<td>4775</td>
<td>4440</td>
<td>335</td>
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<tr>
<td>C3</td>
<td>Crush zone 3 at left side</td>
<td>mm</td>
<td>4842</td>
<td>4487</td>
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<tr>
<td>C4</td>
<td>Crush zone 4 at right side</td>
<td>mm</td>
<td>4843</td>
<td>4487</td>
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<td>C5</td>
<td>Crush zone 5 at right side</td>
<td>mm</td>
<td>4777</td>
<td>4445</td>
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<tr>
<td>C6</td>
<td>Crush zone 6 at right side</td>
<td>mm</td>
<td>4661</td>
<td>4381</td>
<td>280</td>
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**REMARKS:**

Signature: [Signature]  
Date: 5/7/09  
I certify that I have read and performed each instruction.
## DATA SHEET 41
### WINDSHIELD MOUNTING (FMVSS 212)

<table>
<thead>
<tr>
<th>Test Vehicle:</th>
<th>2009 Mazda 6</th>
<th>NHTSA No.:</th>
<th>C95402</th>
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</thead>
<tbody>
<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
<td>Test Date:</td>
<td>5/7/09</td>
</tr>
<tr>
<td>Test Technician:</td>
<td>Jamie Aide</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### IMPACT ANGLE:

- Zero Degrees

### BELTED DUMMIES (YES/NO):

- No

### TEST SPEED:

- **X** 32 to 40 kmph
- **X** 0 to 48 kmph
- **X** 0 to 56 kmph

### DRIVER DUMMY:

- **X** 5th female
- **X** 50th male

### PASSENGER DUMMY:

- **X** 5th female
- **X** 50th male

### 1. Pre-Crash

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

- Retained with glue
- Rubber and plastic trim

### 2. Post Crash

2.1 Can a single thickness of copier type paper (as small a piece as necessary) slide between the windshield and the vehicle body?

- **X** No - Pass. Skip to the table of measurements, complete it by repeating the pre-crash measurements in the post crash column, and calculate the retention percentage, which will be 100%.

- **X** Yes, go to 2.2

2.2 Visibly mark the beginning and end of the portions of the periphery where the paper slides between the windshield and the vehicle body.

2.3 Measure and record post-crash A, B, C, D, E, and F such that the measurements do not include any of the parts of the windshield where the paper slides between the windshield and the vehicle body.

2.4 Calculate and record the percent retention for the right and left side of the windshield.

2.5 Is total right side percent retention less than 75%?

- Yes, Fail
- **X** No, Pass

2.6 Is total left side percent retention less than 75%?

- Yes, Fail
- **X** No, Pass
### WINDSHIELD RETENTION MEASUREMENTS

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Pre-Crash (mm)</th>
<th>Post-Crash (mm)</th>
<th>Percent Retention (Post-Test ÷ Pre-Crash)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Side</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>572</td>
<td>572</td>
<td>100%</td>
</tr>
<tr>
<td>B</td>
<td>882</td>
<td>882</td>
<td>100%</td>
</tr>
<tr>
<td>C</td>
<td>693</td>
<td>693</td>
<td>100%</td>
</tr>
<tr>
<td>Total</td>
<td>2147</td>
<td>2147</td>
<td>100%</td>
</tr>
<tr>
<td>Right Side</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>572</td>
<td>572</td>
<td>100%</td>
</tr>
<tr>
<td>E</td>
<td>882</td>
<td>882</td>
<td>100%</td>
</tr>
<tr>
<td>F</td>
<td>693</td>
<td>693</td>
<td>100%</td>
</tr>
<tr>
<td>Total</td>
<td>2147</td>
<td>2147</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:

Signature: 

Date: 5/7/09

I certify that I have read and performed each instruction.
DATA SHEET 42  
WINDSHIELD ZONE INTRUSION (FMVSS 219)

<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>

This standard specifies limits for the displacement of vehicle components into the windshield area during a frontal barrier impact test at any speed up to and including 48 kmph.

1. Place a 165 mm diameter rigid sphere, with a mass of 6.8 kg on the instrument panel so that it is simultaneously touching the instrument panel and the windshield. (571.219 S6.1(a))

2. Roll the sphere from one side of the windshield to the other while marking on the windshield where the sphere contacts the windshield. (571.219 S6.1(b))

3. From the outermost contactable points on the windshield draw a horizontal line to the edges of the windshield. (571.219 S6.1(b))

4. Draw a line on the inner surface of the windshield that is 13 mm below the line determined in items 2 and 3.

5. After the crash test, record any points where a part of the exterior of the vehicle has marked, penetrated, or broken the windshield.

Provide all dimensions necessary to reproduce the protected area.
WINDSHIELD DIMENSIONS

<table>
<thead>
<tr>
<th>Item</th>
<th>Units</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Mm</td>
<td>1144</td>
</tr>
<tr>
<td>B</td>
<td>mm</td>
<td>489</td>
</tr>
<tr>
<td>C</td>
<td>mm</td>
<td>1386</td>
</tr>
<tr>
<td>D</td>
<td>mm</td>
<td>882</td>
</tr>
<tr>
<td>E</td>
<td>mm</td>
<td>563</td>
</tr>
<tr>
<td>F</td>
<td>mm</td>
<td>502</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: 5/7/09
DATA SHEET 43
FUEL SYSTEM INTEGRITY (FMVSS 301)

Test Vehicle: 2009 Mazda 6
Test Program: FMVSS 208 Compliance
Test Technician: Ben Fischer
NHTSA No.: C95402
Test Date: 5/7/09

<table>
<thead>
<tr>
<th>Type of Impact</th>
<th>Description</th>
<th>Result</th>
<th>Maximum Allowable</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>From impact until vehicle motion ceases:</td>
<td>0.0 grams</td>
<td>28 grams</td>
</tr>
<tr>
<td>B</td>
<td>For the 5 minute period after motion ceases:</td>
<td>0.0 grams</td>
<td>142 grams</td>
</tr>
<tr>
<td>C</td>
<td>For the following 25 minutes:</td>
<td>0.0 grams</td>
<td>28 grams/minute</td>
</tr>
<tr>
<td>D</td>
<td>Spillage:</td>
<td>NONE</td>
<td></td>
</tr>
</tbody>
</table>

Stoddard Solvent Spillage Measurements

REMARKS: NO SPILLAGE
**DATA SHEET NO. 43**

**FMVSS 301 STATIC ROLLOVER DATA**

**Test Vehicle:** 2009 Mazda 6  
**Test Program:** FMVSS 208 Compliance  
**NHTSA No.:** C95402  
**Test Date:** 5/7/09

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>120</td>
<td>300</td>
<td>0.0</td>
</tr>
<tr>
<td>90° to 180°</td>
<td>117</td>
<td>300</td>
<td>0.0</td>
</tr>
<tr>
<td>180° to 270°</td>
<td>110</td>
<td>300</td>
<td>0.0</td>
</tr>
<tr>
<td>270° to 360°</td>
<td>121</td>
<td>300</td>
<td>0.0</td>
</tr>
</tbody>
</table>
### APPENDIX A

**CRASH TEST DATA**

#### TABLE OF DATA PLOTS

<table>
<thead>
<tr>
<th>Figure No.</th>
<th>Data Plot</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Driver Head X Acceleration vs. Time</td>
<td>A-1</td>
</tr>
<tr>
<td>2</td>
<td>Driver Head Y Acceleration vs. Time</td>
<td>A-1</td>
</tr>
<tr>
<td>3</td>
<td>Driver Head Z Acceleration vs. Time</td>
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<td>4</td>
<td>Driver Head Resultant Acceleration vs. Time</td>
<td>A-1</td>
</tr>
<tr>
<td>5</td>
<td>Driver Head X Velocity vs. Time</td>
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<td>6</td>
<td>Driver Head Y Velocity vs. Time</td>
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<td>7</td>
<td>Driver Head Z Velocity vs. Time</td>
<td>A-2</td>
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<td>8</td>
<td>Driver Neck Force X vs. Time</td>
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<td>9</td>
<td>Driver Neck Force Y vs. Time</td>
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</tr>
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<td>10</td>
<td>Driver Neck Force Z vs. Time</td>
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<tr>
<td>11</td>
<td>Driver Neck Force Resultant vs. Time</td>
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<td>Driver Neck Moment X vs. Time</td>
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<tr>
<td>13</td>
<td>Driver Neck Moment Y vs. Time</td>
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<td>Driver Chest X Acceleration vs. Time</td>
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<tr>
<td>17</td>
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<td>Driver Chest Y Velocity vs. Time</td>
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<td>Driver Chest Displacement vs. Time</td>
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<td>Driver Left Femur Force vs. Time</td>
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<td>Passenger Head X Acceleration vs. Time</td>
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<td>Description</td>
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<td>Passenger Neck Force X vs. Time</td>
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<td>Passenger Chest Y Velocity vs. Time</td>
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<td>Passenger Chest Z Velocity vs. Time</td>
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<td>Passenger Chest Displacement vs. Time</td>
<td>A-13</td>
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<td>49</td>
<td>Passenger Left Femur Force vs. Time</td>
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<td>50</td>
<td>Passenger Right Femur Force vs. Time</td>
<td>A-14</td>
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<tr>
<td>51</td>
<td>Driver Nij (N_{TF}) vs. Time</td>
<td>A-15</td>
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<td>52</td>
<td>Driver Nij (N_{TE}) vs. Time</td>
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<td>Driver Nij (N_{CF}) vs. Time</td>
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<td>Driver Nij (N_{CE}) vs. Time</td>
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<td>Passenger Nij (N_{CE}) vs. Time</td>
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<td>Driver Occipital Condyle Moment vs. Time</td>
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<td>Passenger Occipital Condyle Moment vs. Time</td>
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<td>Left Rear Seat Crossmember X Acceleration vs. Time</td>
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<td>Left Rear Seat Crossmember X Velocity vs. Time</td>
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<td>Right Rear Seat Crossmember X Acceleration vs. Time</td>
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<td>Top of Engine X Acceleration vs. Time</td>
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<td>Top of Engine X Velocity vs. Time</td>
<td>A-19</td>
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<td>67</td>
<td>Bottom of Engine X Acceleration vs. Time</td>
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<td>Bottom of Engine X Velocity vs. Time</td>
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<td>Left Brake Caliper X Acceleration vs. Time</td>
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<td>70</td>
<td>Left Brake Caliper X Velocity vs. Time</td>
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<td>Right Brake Caliper X Acceleration vs. Time</td>
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<td>72</td>
<td>Right Brake Caliper X Velocity vs. Time</td>
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<td>Instrument Panel X Acceleration vs. Time</td>
<td>A-21</td>
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<td>Instrument Panel X Velocity vs. Time</td>
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<td>Trunk Z Acceleration vs. Time</td>
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<tr>
<td>76</td>
<td>Trunk Z Velocity vs. Time</td>
<td>A-21</td>
</tr>
</tbody>
</table>
25 MPH FRONTAL UNBELTED 5THS
2009 MAZDA 6 (C95402)

Test Date: 05/07/2009
Speed: 24.8 mph (39.9 km/h)

PASSENGER HEAD X Velocity (kph) vs TIME (ms)
Max: 40.6 kph
Tmax: 50.8 ms
Min: -12.9 kph
Tmin: 258.9 ms
CFC 180

PASSENGER HEAD Y Velocity (kph) vs TIME (ms)
Max: 1.9 kph
Tmax: 269.5 ms
Min: -1.7 kph
Tmin: 100.1 ms
CFC 180

PASSENGER HEAD Z Velocity (kph) vs TIME (ms)
Max: 0.6 kph
Tmax: 80.6 ms
Min: -11.9 kph
Tmin: 136.2 ms
CFC 180
25 MPH FRONTAL UNBELTED 5THS
2009 MAZDA 6 (C95402)

Test Date: 05/07/2009
Speed: 24.8 mph (39.9 km/h)

PASSENGER NECK FX (N) vs TIME (ms)
Max: 1898.3 N
Tmax: 82.0 ms
Min: -138.0 N
Tmin: 209.5 ms
CFC 1000

PASSENGER NECK FY (N) vs TIME (ms)
Max: 263.4 N
Tmax: 106.3 ms
Min: -110.6 N
Tmin: 74.3 ms
CFC 1000

PASSENGER NECK FZ (N) vs TIME (ms)
Max: 322.4 N
Tmax: 57.5 ms
Min: -594.3 N
Tmin: 81.5 ms
CFC 1000

PASSENGER NECK FResultant (N) vs TIME (ms)
Max: 1975.1 N
Tmax: 82.0 ms
Min: 0.4 N
Tmin: 2.2 ms
CFC 1000
PASSENGER CHEST X (G's) vs TIME (ms)

Max: 2.1 G's
Tmax: 184.2 ms
Min: -36.2 G's
Tmin: 79.8 ms
CFC 180

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

Max: 2.7 G's
Tmax: 48.1 ms
Min: -5.2 G's
Tmin: 84.8 ms
CFC 180

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

Max: 17.0 G's
Tmax: 80.6 ms
Min: -7.4 G's
Tmin: 57.7 ms
CFC 180

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

Max: 40.0 G's
Tmax: 80.0 ms
Min: 0.0 G's
Tmin: 0.0 ms
CFC 180
25 MPH FRONTAL UNBELTED 5THS
2009 MAZDA 6 (C95402)
Test Date: 05/07/2009
Speed: 24.8 mph (39.9 km/h)

Pass. nij (NTF) () vs TIME (ms)
Max: 0.3
Tmax: 69.5 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600

Pass. nij (NTE) () vs TIME (ms)
Max: 0.2
Tmax: 135.0 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600

Pass. nij (NCF) () vs TIME (ms)
Max: 0.7
Tmax: 81.4 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600

Pass. nij (NCE) () vs TIME (ms)
Max: 0.3
Tmax: 121.1 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600
25 MPH FRONTAL UNBELTED 5THS
2009 MAZDA 6 (C95402)
Test Date: 05/07/2009
Speed: 24.8 mph (39.9 km/h)

Drv. Occipital Condyle Moment (Nm) vs TIME (ms)
Max: 8.0 Nm
Tmax: 204.9 ms
Min: -49.7 Nm
Tmin: 94.3 ms
CFC 600

Pass. Occipital Condyle Moment (Nm) vs TIME (ms)
Max: 83.5 Nm
Tmax: 78.8 ms
Min: -16.2 Nm
Tmin: 121.1 ms
CFC 600
25 MPH FRONTAL UNBELTED 5THS
2009 MAZDA 6 (C95402)

Test Date: 05/07/2009
Speed: 24.8 mph (39.9 km/h)

LEFT REAR SEAT CROSSMEMBER X (G's) vs TIME (ms)
Max: 1.3 G's
Tmax: 140.3 ms
Min: -24.5 G's
Tmin: 63.2 ms
CFC 60

LEFT REAR SEAT CROSSMEMBER X Velocity (kph) vs TIME (ms)
Max: 39.9 kph
Tmax: 0.0 ms
Min: -6.8 kph
Tmin: 128.1 ms
CFC 180

RIGHT REAR SEAT CROSSMEMBER X (G's) vs TIME (ms)
Max: 1.7 G's
Tmax: 137.6 ms
Min: -23.3 G's
Tmin: 28.3 ms
CFC 60

RIGHT REAR SEAT CROSSMEMBER X Velocity (kph) vs TIME (ms)
Max: 39.9 kph
Tmax: 0.5 ms
Min: -6.5 kph
Tmin: 122.3 ms
CFC 180
25 MPH FRONTAL UNBELTED 5THS
2009 MAZDA 6 (C95402)
Test Date: 05/07/2009
Speed: 24.8 mph (39.9 km/h)

1. **TOP OF ENGINE X (G's) vs TIME (ms)**
   - Max: 15.0 G's
   - Tmax: 72.3 ms
   - Min: -54.4 G's
   - Tmin: 43.5 ms
   - CFC 60

2. **TOP OF ENGINE X Velocity (kph) vs TIME (ms)**
   - Max: 39.9 kph
   - Tmax: 0.0 ms
   - Min: -6.0 kph
   - Tmin: 180.3 ms
   - CFC 180

3. **BOTTOM OF ENGINE X (G's) vs TIME (ms)**
   - Max: 12.5 G's
   - Tmax: 60.5 ms
   - Min: -38.0 G's
   - Tmin: 40.7 ms
   - CFC 60

4. **BOTTOM OF ENGINE X Velocity (kph) vs TIME (ms)**
   - Max: 39.9 kph
   - Tmax: 0.0 ms
   - Min: 0.1 kph
   - Tmin: 147.8 ms
   - CFC 180
25 MPH FRONTAL UNBELTED 5THS
2009 MAZDA 6 (C95402)

Test Date: 05/07/2009
Speed: 24.8 mph (39.9 km/h)

LEFT BRAKE CALIPER X (G's) vs TIME (ms)
Max: 13.1 G's
Tmax: 69.9 ms
Min: -39.5 G's
Tmin: 62.2 ms
CFC 60

LEFT BRAKE CALIPER X Velocity (kph) vs TIME (ms)
Max: 40.3 kph
Tmax: 8.8 ms
Min: -6.1 kph
Tmin: 103.8 ms
CFC 180

RIGHT BRAKE CALIPER X (G's) vs TIME (ms)
Max: 3.9 G's
Tmax: 119.7 ms
Min: -38.0 G's
Tmin: 36.3 ms
CFC 60

RIGHT BRAKE CALIPER X Velocity (kph) vs TIME (ms)
Max: 40.0 kph
Tmax: 0.0 ms
Min: -7.5 kph
Tmin: 107.3 ms
CFC 180
25 MPH FRONTAL UNBELTED 5THS
2009 MAZDA 6 (C95402)

Test Date: 05/07/2009
Speed: 24.8 mph (39.9 km/h)

INSTRUMENT PANEL X (G's) vs TIME (ms)
Max: 14.6 G's
Tmax: 43.9 ms
Min: -34.9 G's
Tmin: 60.3 ms
CFC 60

INSTRUMENT PANEL X Velocity (kph) vs TIME (ms)
Max: 40.0 kph
Tmax: 6.2 ms
Min: -7.6 kph
Tmin: 117.8 ms
CFC 180

TRUNK Z (G's) vs TIME (ms)
Max: 18.9 G's
Tmax: 33.1 ms
Min: -13.5 G's
Tmin: 28.6 ms
CFC 60

TRUNK Z Velocity (kph) vs TIME (ms)
Max: 1.8 kph
Tmax: 34.9 ms
Min: -4.0 kph
Tmin: 75.1 ms
CFC 180
### APPENDIX B

#### LOW RISK TEST DATA

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LOW RISK DEPLOYMENT
2009 Mazda 6 (C95402) (5th P1)

Test Date: 4/21/09
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)
Max: 8.9 G's
Tmax: 218.3 ms
Min: -29.6 G's
Tmin: 7.0 ms
CFC 1000

5TH FEM. DRIVER HEAD Y (G's) vs TIME (ms)
Max: 2.4 G's
Tmax: 11.4 ms
Min: -2.4 G's
Tmin: 8.5 ms
CFC 1000

5TH FEM. DRIVER HEAD Z (G's) vs TIME (ms)
Max: 31.9 G's
Tmax: 8.6 ms
Min: -50.7 G's
Tmin: 7.2 ms
CFC 1000

5TH FEM. DRIVER HEAD Resultant (G's) vs TIME (ms)
Max: 55.5 G's
Tmax: 7.2 ms
Min: 0.0 G's
Tmin: 2.4 ms
CFC 1000
LOW RISK DEPLOYMENT
2009 Mazda 6 (C95402) (5th P1)

Test Date: 4/21/09
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: 0.0 kph
Tmax: 5.6 ms
Min: -14.8 kph
Tmin: 66.5 ms
CFC 180

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

Max: 0.2 kph
Tmax: 27.2 ms
Min: -0.3 kph
Tmin: 156.2 ms
CFC 180

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

Max: 16.2 kph
Tmax: 225.0 ms
Min: -1.0 kph
Tmin: 8.0 ms
CFC 180
LOW RISK DEPLOYMENT
2009 Mazda 6 (C95402) (5th P1)

Test Date: 4/21/09
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: 187.6 N
Tmax: 7.0 ms
Min: -602.9 N
Tmin: 38.4 ms
CFC 1000

5TH FEM. DRIVER NECK FY (N) vs TIME (ms)
Max: 38.2 N
Tmax: 8.4 ms
Min: -42.8 N
Tmin: 19.6 ms
CFC 1000

5TH FEM. DRIVER NECK FZ (N) vs TIME (ms)
Max: 1235.7 N
Tmax: 8.1 ms
Min: -314.1 N
Tmin: 10.5 ms
CFC 1000

5TH FEM. DRIVER NECK FResultant (N) vs TIME (ms)
Max: 1246.8 N
Tmax: 8.1 ms
Min: 0.3 N
Tmin: 3.0 ms
CFC 1000
LOW RISK DEPLOYMENT
2009 Mazda 6 (C95402) (5th P1)

Test Date: 4/21/09
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 225ms

5TH FEM. DRIVER NECK MX (Nm) vs TIME (ms)
Max: 2.8 Nm
Tmax: 19.8 ms
Min: -4.1 Nm
Tmin: 11.8 ms
CFC 600

5TH FEM. DRIVER NECK MY (Nm) vs TIME (ms)
Max: 6.7 Nm
Tmax: 225.0 ms
Min: -46.5 Nm
Tmin: 39.5 ms
CFC 600

5TH FEM. DRIVER NECK MZ (Nm) vs TIME (ms)
Max: 1.1 Nm
Tmax: 17.0 ms
Min: -3.1 Nm
Tmin: 54.3 ms
CFC 600

Drv. Occipital Condyle Moment (Nm) vs TIME (ms)
Max: 5.5 Nm
Tmax: 225.0 ms
Min: -35.9 Nm
Tmin: 39.7 ms
CFC 600
LOW RISK DEPLOYMENT
2009 Mazda 6 (C95402) (5th P1)

Test Date: 4/21/09
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 225ms

5TH FEM. DRIVER CHEST X (G's) vs TIME (ms)
Max: 3.1 G's
Tmax: 7.8 ms
Min: -11.7 G's
Tmin: 10.8 ms
CFC 180

5TH FEM. DRIVER CHEST Y (G's) vs TIME (ms)
Max: 0.7 G's
Tmax: 22.5 ms
Min: -1.2 G's
Tmin: 29.7 ms
CFC 180

5TH FEM. DRIVER CHEST Z (G's) vs TIME (ms)
Max: 6.9 G's
Tmax: 10.5 ms
Min: -10.3 G's
Tmin: 8.3 ms
CFC 180

5TH FEM. DRIVER CHEST Resultant (G's) vs TIME (ms)
Max: 13.5 G's
Tmax: 10.7 ms
Min: 0.0 G's
Tmin: 0.8 ms
CFC 180
LOW RISK DEPLOYMENT
2009 Mazda 6 (C95402) (5th P1)

Test Date: 4/21/09
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 225ms

5TH FEM. DRIVER CHEST X Velocity (kph) vs TIME (ms)
- Max: 0.1 kph
- Tmax: 8.9 ms
- Min: -5.8 kph
- Tmin: 52.6 ms
- CFC 180

5TH FEM. DRIVER CHEST Y Velocity (kph) vs TIME (ms)
- Max: 0.0 kph
- Tmax: 10.1 ms
- Min: -0.3 kph
- Tmin: 49.7 ms
- CFC 180

5TH FEM. DRIVER CHEST Z Velocity (kph) vs TIME (ms)
- Max: 7.0 kph
- Tmax: 225.0 ms
- Min: -0.6 kph
- Tmin: 9.5 ms
- CFC 180

5TH FEM. DRIVER CHEST DISPLACEMENT (mm) vs TIME (ms)
- Max: 0.0 mm
- Tmax: 0.7 ms
- Min: -5.5 mm
- Tmin: 39.3 ms
- CFC 600
LOW RISK DEPLOYMENT
2009 Mazda 6 (C95402) (5th P1)

Test Date: 4/21/09
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: 138.7 N
Tmax: 37.0 ms
Min: -77.6 N
Tmin: 10.6 ms
CFC 600

5TH FEM. DRIVER RIGHT FEMUR (N) vs TIME (ms)

Max: 150.9 N
Tmax: 36.7 ms
Min: -61.7 N
Tmin: 10.5 ms
CFC 600
LOW RISK DEPLOYMENT
Test Date: 4/21/09
2009 Mazda 6 (C95402) (5th P1)
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 225ms

FIRE VOLTAGE #1 (Volts) vs TIME (ms)
Max: 17.2 Volts
Tmax: 0.3 ms
Min: -1.0 Volts
Tmin: 10.3 ms
CFC 1000

FIRE CURRENT #1 (Amps) vs TIME (ms)
Max: 2.6 Amps
Tmax: 0.1 ms
Min: -0.2 Amps
Tmin: 0.4 ms
CFC 1000

FIRE VOLTAGE #2 (Volts) vs TIME (ms)
Max: 17.2 Volts
Tmax: 100.3 ms
Min: -1.1 Volts
Tmin: 110.3 ms
CFC 1000

FIRE CURRENT #2 (Amps) vs TIME (ms)
Max: 2.2 Amps
Tmax: 100.1 ms
Min: -0.2 Amps
Tmin: 100.4 ms
CFC 1000

B-8
LOW RISK DEPLOYMENT
2009 Mazda 6 (C95402) (5th P2)

Test Date: 4/21/09
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)
Max: 37.4 G's
Tmax: 79.6 ms
Min: -11.7 G's
Tmin: 12.0 ms
CFC 1000

5TH FEM. DRIVER HEAD Y (G's) vs TIME (ms)
Max: 1.6 G's
Tmax: 30.9 ms
Min: -4.5 G's
Tmin: 79.4 ms
CFC 1000

5TH FEM. DRIVER HEAD Z (G's) vs TIME (ms)
Max: 17.4 G's
Tmax: 13.0 ms
Min: -4.5 G's
Tmin: 21.8 ms
CFC 1000

5TH FEM. DRIVER HEAD Resultant (G's) vs TIME (ms)
Max: 38.8 G's
Tmax: 79.6 ms
Min: 0.0 G's
Tmin: 2.7 ms
CFC 1000

B-10
LOW RISK DEPLOYMENT
2009 Mazda 6 (C95402) (5th P2)

Test Date: 4/21/09
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: 0.0 kph
Tmax: 9.9 ms
Min: -11.8 kph
Tmin: 74.6 ms
CFC 180

5TH FEM. DRIVER HEAD Y Velocity (kph) vs TIME (ms)
Max: 0.8 kph
Tmax: 61.3 ms
Min: -0.2 kph
Tmin: 92.6 ms
CFC 180

5TH FEM. DRIVER HEAD Z Velocity (kph) vs TIME (ms)
Max: 6.5 kph
Tmax: 91.8 ms
Min: -0.0 kph
Tmin: 7.0 ms
CFC 180
LOW RISK DEPLOYMENT
2009 Mazda 6 (C95402) (5th P2)

Test Date: 4/21/09
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: 68.4 N
- Tmax: 85.9 ms
- Min: -231.9 N
- Tmin: 37.0 ms
- CFC 1000

**5TH FEM. DRIVER NECK FY (N) vs TIME (ms)**
- Max: 31.5 N
- Tmax: 16.7 ms
- Min: -41.1 N
- Tmin: 35.4 ms
- CFC 1000

**5TH FEM. DRIVER NECK FZ (N) vs TIME (ms)**
- Max: 547.9 N
- Tmax: 13.0 ms
- Min: -129.4 N
- Tmin: 19.1 ms
- CFC 1000

**5TH FEM. DRIVER NECK FRResultant (N) vs TIME (ms)**
- Max: 565.7 N
- Tmax: 12.9 ms
- Min: 0.9 N
- Tmin: 6.1 ms
- CFC 1000
LOW RISK DEPLOYMENT
2009 Mazda 6 (C95402) (5th P2)

Test Date: 4/21/09
Speed: 0.0 mph (0.0 km/h)

Ijury Values Calculated between 0ms and 225ms

5TH FEM. DRIVER NECK MX (Nm) vs TIME (ms)
Max: 3.1 Nm
Tmax: 34.5 ms
Min: -2.7 Nm
Tmin: 16.2 ms
CFC 600

5TH FEM. DRIVER NECK MY (Nm) vs TIME (ms)
Max: 20.8 Nm
Tmax: 87.6 ms
Min: -14.4 Nm
Tmin: 17.1 ms
CFC 600

5TH FEM. DRIVER NECK MZ (Nm) vs TIME (ms)
Max: 1.3 Nm
Tmax: 111.3 ms
Min: -4.6 Nm
Tmin: 58.4 ms
CFC 600

Drv. Occipital Condyle Moment (Nm) vs TIME (ms)
Max: 19.9 Nm
Tmax: 88.3 ms
Min: -10.7 Nm
Tmin: 17.0 ms
CFC 600
LOW RISK DEPLOYMENT
2009 Mazda 6 (C95402) (5th P2)

Test Date: 4/21/09
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 225ms

5TH FEM. DRIVER CHEST X (G's) vs TIME (ms)
Max: 12.5 G's
Tmax: 18.4 ms
Min: -28.2 G's
Tmin: 11.5 ms
CFC 180

5TH FEM. DRIVER CHEST Y (G's) vs TIME (ms)
Max: 2.5 G's
Tmax: 9.1 ms
Min: -2.4 G's
Tmin: 16.3 ms
CFC 180

5TH FEM. DRIVER CHEST Z (G's) vs TIME (ms)
Max: 7.1 G's
Tmax: 13.4 ms
Min: -2.9 G's
Tmin: 23.3 ms
CFC 180

5TH FEM. DRIVER CHEST Resultant (G's) vs TIME (ms)
Max: 28.5 G's
Tmax: 11.6 ms
Min: 0.0 G's
Tmin: 3.7 ms
CFC 180
LOW RISK DEPLOYMENT
2009 Mazda 6 (C95402) (5th P2)

Test Date: 4/21/09
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 225ms

5TH FEM. DRIVER CHEST X Velocity (kph) vs TIME (ms)
Max: 0.1 kph
Tmax: 8.1 ms
Min: -5.7 kph
Tmin: 58.0 ms
CFC 180

5TH FEM. DRIVER CHEST Y Velocity (kph) vs TIME (ms)
Max: 0.5 kph
Tmax: 88.7 ms
Min: -0.1 kph
Tmin: 17.2 ms
CFC 180

5TH FEM. DRIVER CHEST Z Velocity (kph) vs TIME (ms)
Max: 3.2 kph
Tmax: 112.6 ms
Min: -0.0 kph
Tmin: 0.1 ms
CFC 180

5TH FEM. DRIVER CHEST DISPLACEMENT (mm) vs TIME (ms)
Max: 0.0 mm
Tmax: 1.8 ms
Min: -15.7 mm
Tmin: 13.1 ms
CFC 600
LOW RISK DEPLOYMENT
2009 Mazda 6 (C95402) (5th P2)

Test Date: 4/21/09
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: 524.0 N
Tmax: 11.3 ms
Min: -188.1 N
Tmin: 10.4 ms
CFC 600

5TH FEM. DRIVER RIGHT FEMUR (N) vs TIME (ms)

Max: 499.1 N
Tmax: 11.7 ms
Min: -166.0 N
Tmin: 11.1 ms
CFC 600
Injury Values Calculated between 0ms and 225ms

FIRE VOLTAGE #1 (Volts) vs TIME (ms)

Max: 17.0 Volts
Tmax: 0.3 ms
Min: -1.2 Volts
Tmin: 10.3 ms
CFC 1000

FIRE CURRENT #1 (Amps) vs TIME (ms)

Max: 2.8 Amps
Tmax: 0.2 ms
Min: -0.3 Amps
Tmin: 0.5 ms
CFC 1000

FIRE VOLTAGE #2 (Volts) vs TIME (ms)

Max: 17.1 Volts
Tmax: 100.3 ms
Min: -1.3 Volts
Tmin: 110.3 ms
CFC 1000

FIRE CURRENT #2 (Amps) vs TIME (ms)

Max: 2.6 Amps
Tmax: 100.1 ms
Min: -0.3 Amps
Tmin: 100.5 ms
CFC 1000
LOW RISK DEPLOYMENT
2009 Mazda 6 (C95402) (5th P2)

Test Date: 4/21/09
Speed: 0.0 mph (0.0 km/h)

CFC 600

Drv. nj (NTF) () vs TIME SPECIAL CHS (ms)
Max: 0.1
Tmax: 80.9 ms
Min: 0.0
Tmin: 0.1 ms

Drv. nj (NTE) () vs TIME SPECIAL CHS (ms)
Max: 0.3
Tmax: 13.2 ms
Min: 0.0
Tmin: 1.0 ms

Drv. nj (NCF) () vs TIME SPECIAL CHS (ms)
Max: 0.1
Tmax: 89.8 ms
Min: 0.0
Tmin: 0.1 ms

Drv. nj (NCE) () vs TIME SPECIAL CHS (ms)
Max: 0.2
Tmax: 17.7 ms
Min: 0.0
Tmin: 0.1 ms
## APPENDIX C

### CRASH TEST PHOTOGRAPHS

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<td>66</td>
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MFD. BY AUTO ALLIANCE INTERNATIONAL, INC.
FOR MAZDA MOTOR CORPORATION
MADE IN U.S.A.

DATE: 10/08  GVWR: 4340LB/1969KG
FRONT GAWR: 2286LB/1037KG  REAR GAWR: 2062LB/935KG

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

VIN: 1YVHP80A695M23827
TYPE: Passenger Car

EXT PNT: NN
WB  BRK  INT TR  TP/PS  R  AXLE  TR  SPR
1200810073689  ZFP  \F85B-1520472-AB
TIRE AND LOADING INFORMATION

SEATING CAPACITY | TOTAL 5 | FRONT 2 | REAR 3

The combined weight of occupants and cargo should never exceed 385kg or 850lbs.

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<th>COLD TIRE PRESSURE</th>
<th>SEE OWNER’S MANUAL FOR ADDITIONAL INFORMATION</th>
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<td>220 kPa, 32 psi</td>
<td>(GS3LA)</td>
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<tr>
<td>REAR</td>
<td>P205/65R16 94H</td>
<td>220 kPa, 32 psi</td>
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<tr>
<td>SPARE</td>
<td>T115/70D16 92M</td>
<td>420 kPa, 60 psi</td>
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Tire Placard
Pre-Test Front View of Test Vehicle
Post-Test Front View of Test Vehicle
Pre-Test Left Side View of Test Vehicle
Post-Test Left Side View of Test Vehicle
Pre-Test Right Side View of Test Vehicle
Post-Test Right Side View of Test Vehicle
Pre-Test Left Front Three-Quarter View of Test Vehicle
Post-Test Left Front Three-Quarter View of Test Vehicle
Pre-Test Right Front Three-Quarter View of Test Vehicle
Post-Test Right Front Three-Quarter View of Test Vehicle
Pre-Test Right Rear Three-Quarter View of Test Vehicle
Post-Test Right Rear Three-Quarter View of Test Vehicle
Pre-Test Left Rear Three-Quarter View of Test Vehicle
Post-Test Left Rear Three-Quarter View of Test Vehicle
Post-Test Rear View of Test Vehicle
Pre-Test Windshield View
Post-Test Windshield View
Post-Test Engine Compartment View
PRE-TEST
C95402
25 MPH FRONTAL
09050701
2009 MAZDA 6
Post-Test Fuel Filler Cap View
Pre-Test Front Underbody 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
Pre-Test Driver Dummy Position Left Side View (door open)
Post-Test Driver Dummy Position Left Side View (door open)
Pre-Test Driver Dummy Seat Position
Post-Test Driver Dummy Seat Position
Pre-Test Driver Dummy Feet Position
Post-Test Driver Dummy Feet Position
Pre-Test Driver Side Knee Bolster View
Post-Test Driver Dummy Airbag Contact
Post-Test Driver Dummy Head Contact (windshield)
Post-Test Driver Dummy Knee Contact (left side view)
Post-Test Driver Dummy Knee Contact (right side view)
Pre-Test Passenger Dummy Front View (head position)
Post-Test Passenger Dummy Front View (head position)
Pre-Test Passenger Dummy Position Right Side View (door open)
Post-Test Passenger Dummy Position Right Side View (door open)
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 Airbag Contact
Post-Test Passenger Dummy Head Contact (headrest)
Post-Test Passenger Dummy Knee Contact
Rollover 90 Degrees
Rollover 180 Degrees
Rollover 270 Degrees
Rollover 360 Degrees
## APPENDIX D

### LOW RISK PHOTOGRAPHS

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<td>Photo No. 11</td>
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Post-Test 5th Fem. P1 Driver Dummy Head Contact (headrest)
Pre-Test 5th Fem. P2 Driver Dummy Right Side View
Post-Test 5th Fem. P2 Driver Dummy Right Side View
Post-Test 5th Fem. P2 Driver Dummy Head Contact (visor)
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### SUPPRESSION PHOTOGRAPHS

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<td>3</td>
<td>Cosco Dream Ride Car Bed Belted, Rearward Seat Track</td>
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<td>Britax Handle With Care 191 Unbelted, Forward Seat Track</td>
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Evenflo First Choice 204 Belted, Rearward Seat Track

DOT/NHTSA 208 Suppression Test - 2009 Mazda 6 (C95402)

12 Month Section B

Evenflo First Choice 204 Belted, Middle Seat Track

Rear Facing CRS

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DOT/NHTSA 208 Suppression Test - 2009 Mazda 6 (C95402)  
12 Month  
Section B  
Rear Facing CRS  

Evenflo First Choice 204 Unbelted, Middle Seat Track  
Evenflo First Choice 204 Unbelted, Rearward Seat Track  
Evenflo First Choice 204 Forward Facing Unbelted, Forward Seat Track  
Evenflo First Choice 204 Forward Facing Unbelted, Middle Seat Track
DOT/NHTSA 208 Suppression Test - 2009 Mazda 6 (C95402)

12 Month

Section B

Rear Facing CRS

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DOT/NHTSA 208 Suppression Test - 2009 Mazda 6 (C95402)

12 Month

Section B

Rear Facing CRS

- Graco Infant WO Base Forward Facing Unbelted, Middle Seat Track
- Graco Infant WO Base Forward Facing Unbelted, Rearward Seat Track
- Unbelted 5th Percentile Female Reactivation, Rearward Seat Track
DOT/NHTSA 208 Suppression Test - 2009 Mazda 6 (C95402)

Section C

Forward Facing Convertible CRS

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DOT/NHTSA 208 Suppression Test - 2009 Mazda 6 (C95402)

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
3-Year-Old Century Next Step Cinched With Harness, Rearward Seat Track

Unbelted 5th Percentile Female Reactivation, Rearward Seat Track

Belt Positioning Booster Seat

Forward Facing Toddler

Section D

DOT/NHTSA 208 Suppression Test - 2009 Mazda 6 (C95402)
3-Year-Old Cosco High Back Booster Cinched With Harness, Rearward Seat Track

Unbelted 5th Percentile Female Reactivation, Middle Seat Track

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DOT/NHTSA 208 Suppression Test - 2009 Mazda 6 (C95402)
6 Year Old Section D Forward Facing Toddler Belt Positioning Booster Seat

6-Year-Old Evenflo Right Fit Belted, Forward Seat Track

6-Year-Old Evenflo Right Fit Belted, Middle Seat Track

6-Year-Old Evenflo Right Fit Belted, Rearward Seat Track

Unbelted 5th Percentile Female Reactivation, Forward Seat Track
DOT/NHTSA 208 Suppression Test - 2009 Mazda 6 (C95402)
3 Year Old
No CRS
DOT/NHTSA 208 Suppression Test - 2009 Mazda 6 (C95402)

3 Year Old

No CRS

3-Year-Old Unbelted, Forward Seat Track, Position 5

3-Year-Old Unbelted, Forward Seat Track, Position 6

3-Year-Old Unbelted, Forward Seat Track, Position 7

3-Year-Old Unbelted, Middle Seat Track, Position 1
DOT/NHTSA 208 Suppression Test - 2009 Mazda 6 (C95402)

3-Year-Old Unbelted, Rearward Seat Track Position 7
No CRS
6-Year-Old Unbelted, Middle Seat Track, Position 1

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6-Year-Old Unbelted, Middle Seat Track, Position 3

6-Year-Old Unbelted, Middle Seat Track, Position 4
Unbelted 5th Percentile Female Reactivation, Middle Seat Track

DOT/NHTSA 208 Suppression Test - 2009 Mazda 6 (C95402)
6 Year Old
No CRS
## APPENDIX F

### INSTRUMENTATION CALIBRATION

#### INSTRUMENTS FOR DRIVER DUMMY NO.: 511

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<td>Right Femur Load Cell</td>
<td>9425</td>
<td>GSE</td>
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#### INSTRUMENTS FOR PASSENGER DUMMY NO.: 516

<table>
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<tr>
<th>SERIAL NO.</th>
<th>MANUFACTURER</th>
<th>CALIBRATION DATE</th>
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<tbody>
<tr>
<td>Head X</td>
<td>P59641</td>
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</tr>
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<td>Head Y</td>
<td>P59640</td>
<td>Endevco</td>
</tr>
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<td>Head Z</td>
<td>P59642</td>
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</tr>
<tr>
<td>Neck Load Cell</td>
<td>252</td>
<td>Denton</td>
</tr>
<tr>
<td>Chest X</td>
<td>P59631</td>
<td>Endevco</td>
</tr>
<tr>
<td>Chest Y</td>
<td>P59632</td>
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</tr>
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<td>P59634</td>
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</tr>
<tr>
<td>Chest Displacement</td>
<td>516</td>
<td>Servo</td>
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<tr>
<td>Left Femur Load Cell</td>
<td>959</td>
<td>GSE</td>
</tr>
<tr>
<td>Right Femur Load Cell</td>
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## INSTRUMENTS FOR LOW RISK 5TH FEMALE DUMMY NO.: 505 (P1 & P2)

<table>
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<th>Instrument</th>
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<tbody>
<tr>
<td>Head X</td>
<td>P59665</td>
<td>Endevco</td>
<td>02/10/09</td>
</tr>
<tr>
<td>Head Y</td>
<td>P59667</td>
<td>Endevco</td>
<td>02/10/09</td>
</tr>
<tr>
<td>Head Z</td>
<td>P59669</td>
<td>Endevco</td>
<td>02/10/09</td>
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<tr>
<td>Neck Load Cell</td>
<td>1021</td>
<td>Denton</td>
<td>01/08/09</td>
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<tr>
<td>Chest X</td>
<td>P59657</td>
<td>Endevco</td>
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<tr>
<td>Chest Y</td>
<td>P59658</td>
<td>Endevco</td>
<td>02/10/09</td>
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<td>Chest Z</td>
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<td>02/10/09</td>
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<td>02/25/09</td>
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<tr>
<td>Left Femur Load Cell</td>
<td>1362</td>
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<td>01/29/09</td>
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<td>Right Femur Load Cell</td>
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### VEHICLE INSTRUMENTS

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<tbody>
<tr>
<td>Left Rear Seat Crossmember X</td>
<td>F29-X13</td>
<td>Entran</td>
<td>01/14/09</td>
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<tr>
<td>Right Rear Seat Crossmember X</td>
<td>G29-X36</td>
<td>Entran</td>
<td>03/12/09</td>
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<tr>
<td>Top of Engine X</td>
<td>J23-M06</td>
<td>Entran</td>
<td>03/12/09</td>
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<tr>
<td>Bottom of Engine X</td>
<td>P26985</td>
<td>Endevco</td>
<td>12/18/08</td>
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<tr>
<td>Left Brake Caliper X</td>
<td>L02-Z02</td>
<td>Entran</td>
<td>01/13/09</td>
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<tr>
<td>Right Brake Caliper X</td>
<td>G04-Z26</td>
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<td>04/15/09</td>
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<td>Instrument Panel X</td>
<td>A07-R09</td>
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<tr>
<td>Trunk Z</td>
<td>L02-Z21</td>
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