REPORT NUMBER: 208-MGA-2005-003

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

Toyota Motor Corporation
2005 Toyota Corolla Passenger Car
NHTSA No.: C55101

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

Test Dates: September 30, 2004 - March 23, 2005
Final Report Date: May 27, 2005

FINAL REPORT

PREPARED FOR:
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NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
OFFICE OF ENFORCEMENT
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MAIL CODE: NVS-220
400 SEVENTH STREET, SW, ROOM 6115
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Prepared by: _____________________________ Date: May 27, 2005
Jeff Lewandowski, Project Engineer

Reviewed by: _____________________________ Date: May 27, 2005
David Winkelbauer, Facility Director

FINAL REPORT ACCEPTED BY OVSC:

Accepted By: _____________________________

Acceptance Date: ___________________________
**Abstract**

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

**TEST FAILURES:**

FMVSS 208 S4.5.1 (b)(3) Data Sheet 5 3.3.1  The driver and passenger sun visor air bag warning labels are not permanently affixed to the sun visor.  The labels are easily peeled off of the visor.

FMVSS 208 S.5.1.2 / S6.6  The 50th% Passenger Dummy SN403 had a Compression Flexion Neck Injury of 1.3 at a 96.9 ms time and a Neck Compression of 5367N during the 25mph unbelted frontal impact test.

**Key Words**

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

The tests performed are part of a program conducted for the National Highway Traffic Safety Administration (NHTSA) by MGA Research Corporation (MGA) under Contract No. DTNH22-03-D-11002. The purpose of this test was to determine whether the subject vehicle, a 2005 Toyota Corolla, NHTSA No. C55101, meets certain performance requirements of FMVSS 208, "Occupant Crash Protection"; FMVSS 212, "Windshield Mounting"; FMVSS 219, "Windshield Zone Intrusion"; and FMVSS 301, "Fuel System Integrity". The compliance test was conducted in accordance with OVSC Laboratory Test Procedure No. TP208-12 dated January 14, 2003.
SECTION 2
TESTS PERFORMED

Test Vehicle: 2005 Toyota Corolla  
NHTSA No.: C55101  
Test Program: FMVSS 208 Compliance  
Test Dates: 9/30/04-3/23/05

The following checked items indicate the tests that were performed:

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

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

21. Sled Test: unbelted 50th male dummy driver and passenger (S13)
22. FMVSS 204 Indicant Test
23. FMVSS 212 Indicant Test
24. FMVSS 219 Indicant Test
25. FMVSS 301 Frontal Indicant Test

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

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

The vehicle appears to meet all of the performance requirements to which it was tested with the exception of the following:

FMVSS 208 S4.5.1 (b)(3) Data Sheet 5 3.3.1 The driver and passenger sun visor air bag warning labels are not permanently affixed to the sun visor. The labels are easily peeled off of the visor.

FMVSS 208 S.5.1.2 / S6.6 The 50th% Passenger Dummy SN403 had a Compression Flexion Neck Injury of 1.3 at a 96.9 ms time and a Neck Compression of 5367N during the 25mph unbelted frontal impact test.
# SECTION 3

## INJURY RESULT SUMMARY FOR FMVSS 208 TESTS

**Test Vehicle:** 2005 Toyota Corolla  
**NHTSA No.:** C55101  
**Test Program:** FMVSS 208 Compliance  
**Test Dates:** 1/28/05

### 5th Percentile Female Low Risk Deployments

#### 5th Percentile Female SN 506 Position 1 (Chin On Module) 1-28-05

<table>
<thead>
<tr>
<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Measured Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIC15</td>
<td>700</td>
<td>76</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.7</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>52.2</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.3</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>9.8</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.4</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>165.0</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>19.8</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2070 N</td>
<td>1607</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>386</td>
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<tr>
<td>Chest g</td>
<td>60 g</td>
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<td>Chest Displacement</td>
<td>52 mm</td>
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<td>Left Femur</td>
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<td>Right Femur</td>
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Second stage fire time of 40 ms; Injuries calculated on 0 ms to 165 ms

### 5th Percentile Female SN 511 Position 2 (Chin On Rim) 1-28-05

<table>
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<tr>
<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Measured Value</th>
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<tr>
<td>HIC15</td>
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<tr>
<td>Peak Nij (Nte)</td>
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<td>0.6</td>
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<td>Time (ms)</td>
<td>NA</td>
<td>52.3</td>
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<tr>
<td>Peak Nij (Ntf)</td>
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<td>Time (ms)</td>
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<td>Peak Nij (Nce)</td>
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<td>Time (ms)</td>
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<td>Peak Nij (Ncf)</td>
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<td>Chest Displacement</td>
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<td>Left Femur</td>
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<td>Right Femur</td>
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Second stage fire time of 40 ms; Injuries calculated on 0 ms to 165 ms
SECTION 3...(continued)

INJURY RESULT SUMMARY FOR FMVSS 208 TESTS

Test Vehicle: 2005 Toyota Corolla  
NHTSA No.: C55101  
Test Program: FMVSS 208 Compliance  
Test Date: 03/23/05

40 kmph Frontal Crash

Impact Angle: Zero degrees

Belted Dummies: ___Yes   _X_ No

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

Test Speed: 39.9 kmph  
Test Weight: 1363.5 kg

Driver Dummy: ___5th female  _X_ 50th male
Passenger Dummy: ___5th female  _X_ 50th male

50th Percentile Male Frontal Crash Test

Vehicles certified to S5.1.1(b)(1), S5.1.1(b)(2), S5.1.2(a)(2), or S5.1.2(b)

<table>
<thead>
<tr>
<th>Injury Criteria</th>
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<th>Driver</th>
<th>Passenger</th>
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<td>Na</td>
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<td>Right Femur</td>
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SECTION 4
DISCUSSION OF TESTS

Test Vehicle: 2005 Toyota Corolla  
Test Program: FMVSS 208 Compliance  
NHTSA No.: C55101  
Test Date: 9/30/04-3/23/05

The vehicle failed to meet the requirements of FMVSS 208 S4.5.1 (b)(3) Data Sheet 5 3.3.1. The driver and passenger sun visor air bag warning labels are not permanently affixed to the sun visor. The labels are easily peeled off of the visor.

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

The vehicle failed to meet the requirements of FMVSS 208 S5.1.2 / S6.6. The 50th% Passenger Dummy SN403 had a Compression Flexion Neck Injury of 1.3 at a 96.9 ms time and a Neck Compression of 5367N during the 25mph unbelted frontal impact test.

Instrument Panel X was not valid after 100 msec during the frontal impact test.

The post test FMVSS 301 rollover was not conducted due to the apparent test failure.

An advanced load cell rigid barrier was used for the test. The details of the barrier are shown below. A photograph of the vehicle in relation to the load cell grid is included in Appendix A. Plots of the total force of all 9 rows and an overlay plot of the summed force from each row are included in Appendix B. The vehicle impacted the barrier 6mm lower than the initial target.

### 144 Load Cell Rigid Barrier

**Load Cell Locations on Fixed Barrier**

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<td>7-8</td>
<td>7-9</td>
<td>7-10</td>
<td>7-11</td>
<td>7-12</td>
<td>7-13</td>
<td>7-14</td>
<td>7-15</td>
<td>7-16</td>
</tr>
<tr>
<td>8-1</td>
<td>8-2</td>
<td>8-3</td>
<td>8-4</td>
<td>8-5</td>
<td>8-6</td>
<td>8-7</td>
<td>8-8</td>
<td>8-9</td>
<td>8-10</td>
<td>8-11</td>
<td>8-12</td>
<td>8-13</td>
<td>8-14</td>
<td>8-15</td>
<td>8-16</td>
</tr>
</tbody>
</table>

Load Cells are 121 mm x 121 mm with a 7 mm gap between each load cell.

Load cells 2-7 and 9-4 were not functioning during the test.
SECTION 5
TEST DATA SHEETS

Test Vehicle: 2005 Toyota Corolla
Test Program: FMVSS 208 Compliance
NHTSA No.: C55101
Test Dates: 9/30/04-3/23/05
DATA SHEET 1
COTR VEHICLE WORK ORDER

Test Vehicle: 2005 Toyota Corolla  
NHTSA No.: C55101
Test Program: FMVSS 208 Compliance  
Test Dates: 9/30/04-3/23/05
COTR Signature: Charles R. Case

Test to be performed for this vehicle are checked below:

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

Section B

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

Section C

- Britax Roundabout 161  
  - Full Rearward  
  - Mid Position  
  - Full Forward
- Century Encore 4612  
  - Full Rearward  
  - Mid Position  
  - Full Forward
- Century STE 1000 4416  
  - Full Rearward  
  - Mid Position  
  - Full Forward
- Cosco Olympian 02803  
  - Full Rearward  
  - Mid Position  
  - Full Forward
- Cosco Touriva 02519  
  - Full Rearward  
  - Mid Position  
  - Full Forward
- Evenflo Horizon V 425  
  - Full Rearward  
  - Mid Position  
  - Full Forward
- Evenflo Medallion 254  
  - Full Rearward  
  - Mid Position  
  - Full Forward

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

Section A

- Cosco Dream Ride 02-719  
  - Full Rearward  
  - Mid Position  
  - Full Forward

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

- Britax Roundabout 161
  - Full Rearward
  - Mid Position
  - Full Forward
- Century Encore 4612
  - Full Rearward
  - Mid Position
  - Full Forward
- Century STE 1000 4416
  - Full Rearward
  - Mid Position
  - Full Forward
- Cosco Olympian 02803
  - Full Rearward
  - Mid Position
  - Full Forward
- Cosco Touriva 02519
  - Full Rearward
  - Mid Position
  - Full Forward
- Evenflo Horizon V 425
  - Full Rearward
  - Mid Position
  - Full Forward
- Evenflo Medallion 254
  - Full Rearward
  - Mid Position
  - Full Forward

Section D

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

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

Section C

- 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

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

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

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

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

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

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

18. Suppression tests with representative 6-year-old child using the following indicated child restraints where a child restraint is required.

Section D

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

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

<table>
<thead>
<tr>
<th>Position</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Sitting on seat with back against seat back (S22.2.2.1)</td>
</tr>
<tr>
<td>X</td>
<td>Sitting on seat with back against reclined seat back (S22.2.2.2)</td>
</tr>
<tr>
<td>X</td>
<td>Sitting on seat edge, spine vertical, hands by the child’s side (S22.2.2.4)</td>
</tr>
<tr>
<td>X</td>
<td>Sitting back in the seat and leaning on the right front passenger door (S24.2.3)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Position</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Sitting on seat with back against seat back (S22.2.2.1)</td>
</tr>
<tr>
<td>X</td>
<td>Sitting on seat with back against reclined seat back (S22.2.2.2)</td>
</tr>
<tr>
<td>X</td>
<td>Sitting on seat edge, spine vertical, hands by the child’s side (S22.2.2.4)</td>
</tr>
<tr>
<td>X</td>
<td>Sitting back in the seat and leaning on the right front passenger door (S24.2.3)</td>
</tr>
</tbody>
</table>

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

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

23. Low risk deployment test with 12-month-old dummy (Part 572, Subpart R) using the following indicated child restraints.

Section B

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

Section C

<table>
<thead>
<tr>
<th>Child Restraint</th>
<th>Full Rearward</th>
<th>Mid Position</th>
<th>Full Forward</th>
</tr>
</thead>
<tbody>
<tr>
<td>Britax Roundabout 161</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Century Encore 4612</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Century STE 1000 4416</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cosco Olympian 02803</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cosco Touriva 02519</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evenflo Horizon V 425</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evenflo Medallion 254</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
24. Low risk deployment test with 3-year-old dummy (Part 572, Subpart P) in the following positions
   - Position 1
   - Position 2

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

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

27. Impact Tests
   - Frontal Oblique – Test Speed:
     - Belted 50th male dummy driver and passenger (0 to 48 kmph) (S5.1.1(a))
     - Unbelted 50th male dummy driver and passenger (0 to 48 kmph) (S5.1.2(a)(1))
     - Unbelted 50th male dummy driver and passenger (32 to 40 kmph) (S5.1.2(a) (1) or S5.1.2(b))
   - Frontal 0° - Test Speed: 39.9 kmph
     - Belted 50th male dummy driver (0 to 48 kmph) (S5.1.1.(b)(1) or S5.1.1(a))
     - Belted 50th male dummy passenger (0 to 48 kmph) (S5.1.1.(b)(1) or S5.1.1(a))
     - Unbelted 5th female dummy driver (0 to 48 kmph) (S16.1(a))
     - Belted 5th female dummy passenger (0 to 48 kmph) (S16.1(a))
     - Belted 50th male dummy driver and passenger (0 to 56 kmph) (S5.1.1.(b)(2))
     - Unbelted 50th male dummy driver and passenger (0 to 48 kmph) (S5.1.2(a) (1))
     - Unbelted 50th male dummy driver (32 to 40 kmph) (S5.1.2.(a)(2) or S5.1.2(b))
     - Unbelted 5th female dummy driver (32 to 40 kmph) (S16.1(b))
     - Unbelted 5th male dummy passenger (32 to 40 kmph) (S16.1(b))
   - 40% Offset 0° Belted 5th male dummy driver and passenger (0 to 40 kmph) (S18.1) – Test Speed:

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

29. FMVSS 204 Indicant Test

30. FMVSS 212 Indicant Test

31. FMVSS 219 Indicant Test

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

Test Vehicle: 2005 Toyota Corolla
NHTSA No.: C55101
Test Program: FMVSS 208 Compliance
Test Dates: 9/30/04-3/23/05

CONTRACT NO. DTNH22-03-D-11002 Date: 3/31/05
FROM (Lab and rep name): MGA Research Corporation
TO: NHTSA, OVSC (NVS-220)

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

MODEL YEAR/MAKE/MODEL/BODY STYLE: 2005 Toyota Corolla
MANUFACTURE DATE: 07/04
NHTSA NO. C55101 GVWR: 1626 kg (3585 lbs)
BODY COLOR: White GAWR (Fr): 855 kg (1885 lbs)
VIN: JTDBR32E952055812 GAWR (Rr): 780 kg (1720 lbs)

ODOMETER READINGS: ARRIVAL (miles): 151 DATE: 9/20/04
COMPLETION (miles): 158 DATE: 3/23/05
PURCHASE PRICE: ($) 16,562
DEALER’S NAME: Safro Imports of Brookfield; 20445 W Capital Dr; Brookfield WI 53008,

A. All options listed on window sticker are present on the test vehicle:
   _X_ Yes ___No
B. Tires and wheel rims are new and the same as listed: _X_ Yes ___No
C. There are no dents or other interior or exterior flaws: _X_ Yes ___No
D. The vehicle has been properly prepared and is in running condition:
   _X_ Yes ___No
E. Keyless remote is available and working: _X_ Yes ___No
F. The glove box contains an owner’s manual, warranty document, consumer information, and extra set of keys:
   _X_ Yes ___No
G. Proper fuel filler cap is supplied on the test vehicle:_X_ Yes ___No
H. Using permanent marker, identify vehicle with NHTSA number and FMVSS test type(s) on roof line above driver door or for school buses, place a placard with NHTSA number inside the windshield and to the exterior front and rear side of bus:
   _X_ Yes ___No
I. Place vehicle in storage area: _X_ Yes ___No
J. Inspect the vehicle’s interior and exterior, including all windows, seats, doors, etc. to confirm that each system is complete and functional per the manufacturer’s specifications. Any damage, misadjustment, or other unusual condition that could influence the test program or test results shall be recorded. Report any abnormal condition to the NHTSA COTR before beginning any test:
   _X_ Vehicle OK ___Conditions reported below

Test Vehicle: 2005 Toyota Corolla
Test Program: FMVSS 208 Compliance
NHTSA No.: C55101
Test Dates: 9/30/04-3/23/05

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

I. Place vehicle in storage area: _X_ Yes ___No

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

Test Program: FMVSS 208 Compliance
Test Dates: 9/30/04-3/23/05

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

I. Place vehicle in storage area: _X_ Yes ___No

J. Inspect the vehicle’s interior and exterior, including all windows, seats, doors, etc. to confirm that each system is complete and functional per the manufacturer’s specifications. Any damage, misadjustment, or other unusual condition that could influence the test program or test results shall be recorded. Report any abnormal condition to the NHTSA COTR before beginning any test:
   _X_ Vehicle OK ___Conditions reported below
REPORT OF VEHICLE CONDITION AT THE COMPLETION OF TESTING

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

VEHICLE: 2005 Toyota Corolla  
NHTSA NO.  C55101

REMARKS:

Equipment that is no longer on the test vehicle as noted on previous page:
Rear seat bottom, spare tire, trunk interior, RH rear tail light

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:  3/31/2005

APPROVED BY:  David Winkelbauer  
DATE:  3/31/2005

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

RELEASE OF TEST VEHICLE

The vehicle described above is released from MGA to be delivered to:

Date:
Time:
Odometer:

Lab Rep’s Signature:

Title:

Carrier/Customer Rep:

Date:
# DATA SHEET 3

## CERTIFICATION LABEL AND TIRE PLACARD INFORMATION

<table>
<thead>
<tr>
<th>Test Vehicle:</th>
<th>2005 Toyota Corolla</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
</tr>
<tr>
<td>Test Technician:</td>
<td>Nick Kosinski</td>
</tr>
<tr>
<td>NHTSA No.:</td>
<td>C55101</td>
</tr>
<tr>
<td>Test Date:</td>
<td>3/23/05</td>
</tr>
</tbody>
</table>

### Certification Label

<table>
<thead>
<tr>
<th>Manufacturer:</th>
<th>Toyota Motor Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date of Manufacture:</td>
<td>07/04</td>
</tr>
<tr>
<td>VIN:</td>
<td>JTDBR32E952055812</td>
</tr>
<tr>
<td>Vehicle Certified As (Pass. Car/MPV/Truck/Bus):</td>
<td>Passenger Car</td>
</tr>
<tr>
<td>Front Axle GVWR:</td>
<td>855 kg (1885 lbs)</td>
</tr>
<tr>
<td>Rear Axle GVWR:</td>
<td>780 kg (1720 lbs)</td>
</tr>
<tr>
<td>Total GVWR:</td>
<td>1626 kg (3585 lbs)</td>
</tr>
</tbody>
</table>

### Tire Placard

| Not applicable, vehicle is not a passenger car and does not have a tire placard: | Passenger Car |
| This is not a passenger car, but all or part of this information is still contained on a vehicle label and is reported here: | Passenger Car |
| Vehicle Capacity Weight: | 385 kg (850 lbs) |
| Designated Seating Capacity Front: | 2 |
| Designated Seating Capacity Rear: | 3 |
| Total Designated Seating Capacity: | 5 |
| Recommended Cold Tire Inflation Pressure Front: | 210 kpa (30 psi) |
| Recommended Cold Tire Inflation Pressure Rear: | 210 kpa (30 psi) |
| Recommended Tire Size: | P195/65R15 |

Signature: [Signature]

Date: 03/21/05
DATA SHEET 4
REAR OUTBOARD SEATING POSITION SEAT BELTS

| Test Vehicle: | 2005 Toyota Corolla 4 Door | NHTSA No.: | C55101 | Test Date: | 9/30/04 |
| Test Program: | FMVSS 208 Compliance | Test Technician: | Wayne Dahlke |

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

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

REMARKS:

Signature: [Signature]

Date: 9/30/04
1. Air bag maintenance label and owner’s manual instructions: (S4.5.1(a))
   - Yes, go to 1.2
   - No – go to 2

2. Does the vehicle have a label specifying air bag maintenance or replacement?
   - Yes – Pass
   - No – Fail

1.3 Does the label contain one of the following?
   - Yes – Pass
   - No – Fail

   Check applicable schedule:
   - Schedule on label specifies month and year (Record date______)
   - Schedule on label specified vehicle mileage (Record mileage______)
   - Schedule on label specifies interval measured from date on certification label (Record interval______)

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

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

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

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

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

2. Does the owner’s manual: (S4.5.1(f))
   - Include a description of the vehicle’s air bag system in an easily understandable format?
     - Yes – Pass
     - No – Fail

   - Include a statement that the vehicle is equipped with an air bag and a lap/shoulder belt at the front outboard seating position?
     - Yes – Pass
     - No – Fail
2.3 Include a statement that the air bag is a supplement restraint at the front outboard seating position?

- Yes – Pass
- No – Fail

2.4 Emphasize that all occupants, including the driver, should always wear their seat belts whether or not an air bag is also provided at their seating positions to minimize the risk of severe injury or death in the event of a crash?

- Yes – Pass
- No – Fail

2.5 Provide any necessary precautions regarding the proper positioning of occupants, including children, at seating positions equipped with air bags to ensure maximum safety protection for those occupants?

- Yes – Pass
- No – Fail

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

- Yes – Pass
- No – Fail

2.7 Is the vehicle certified to meet the requirements of S14.5, S15, S17, S19, S21, S23, and S25? (Obtain answer from COTR) (S4.5.1(f)(2))

- Yes – (Go to 2.7.1)
- No – (Go to 3.)

2.7.1 Explain the proper functioning of the advanced air bag system? (S4.5.1(f)(2))

- Yes – Pass
- No – Fail

2.7.2 Provide a summary of the actions that may affect the proper functioning of the system? (S4.5.1(f)(2))

- Yes – Pass
- No – Fail

2.7.3 Present and explain the main components of the advanced passenger air bag system? (S4.5.1(f)(2)(i))

- Yes – Pass
- No – Fail

2.7.4 Explain how the components function together as part of the advanced passenger air bag system? (S4.5.1(f)(2)(ii))

- Yes – Pass
- No – Fail

2.7.5 Contain the basic requirements for proper operation, including an explanation of the actions that may affect the proper functioning of the system? (S4.5.1(f)(2)(iii))

- Yes – Pass
- No – Fail

2.7.6 Is the vehicle certified to the requirements of S19.2, S21.2, or 23.2 (automatic suppression)?

- Yes, continue with 2.7.6
- No, go to 2.7.7

2.7.6.1 Contain a complete description of the passenger air bag suppression system installed in the vehicle, including a discussion of any suppression zone? (S4.5.1(f)(2)(iv))

- Yes – Pass
- No – Fail
2.7.6.2 Discuss the telltale light, specifying its location in the vehicle and explaining when the light is illuminated?

- Yes – Pass
- No – Fail

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

- Yes – Pass
- No – Fail

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

- Yes – Pass
- No – Fail

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

- Yes – Pass
- No – Fail

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

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

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

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

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

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

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

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

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

Driver Side, Yes – Pass
Driver Side, No – Fail
Passenger Side, Yes – Pass
Passenger Side, No – Fail
3.1.5 Is the message area at least 30 cm²? (S4.5.1(b)(1)(ii))

Driver Side: Length ____, Width ______
Passenger Side: Length ____, Width ______
Actual message area ____ cm²
☐ Driver Side, Yes – Pass
☐ Driver Side, No – Fail
☐ Passenger Side, Yes – Pass
☐ Passenger Side, No – Fail

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

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

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

Actual diameter ____ mm
☐ Driver Side, Yes – Pass
☐ Driver Side, No – Fail
☐ Passenger Side, Yes – Pass
☐ Passenger Side, No – Fail

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

3.2.1 Is the label permanently affixed (including permanent marking on the visor material or molding into the visor material) to either side of the sun visor at each front outboard seating position such that it cannot be removed without destroying or defacing the label or the sun visor? (S4.5.1(b)(2))

☐ Driver Side, Yes – Pass
☐ Driver Side, No – Fail
☐ Passenger Side, Yes – Pass
☐ Passenger Side, No – Fail
3.2.2 Does the label conform in content to the label shown in either Figure 8 or 11 at each front outboard seating position? (S4.5.1(b)(2)) (Vehicles without back seats may omit the statement: “The back seat is the safest place for children.” (S4.5.1(b)(2)(iv)) Vehicles without back seats or the back seat is too small to accommodate a rear-facing child restraint may omit the statement “Never put a rear-facing child seat in the front.” (S4.5.1(b)(2)(v))

![Figure 8. Sun Visor Label Visible when Visor is in Down Position.](image)

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

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

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

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

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

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

<table>
<thead>
<tr>
<th>Side</th>
<th>Length</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Passenger</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Actual message area ______ cm²

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

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

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

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

<table>
<thead>
<tr>
<th>Side</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver</td>
<td></td>
</tr>
<tr>
<td>Passenger</td>
<td></td>
</tr>
</tbody>
</table>

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

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

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

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

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

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

![Figure 11](image)

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

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

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

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

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

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

- **Driver Side**: Length 15.0 cm, Width 6.0 cm
- **Passenger Side**: Length 15.0 cm, Width 6.0 cm
- **Driver Actual message area**: 90.0 cm²
- **Passenger Actual message area**: 90.0 cm²

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

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

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

- Driver Side: Length 32 mm
- Passenger Side: Length 32 mm

- X Driver Side, Yes – Pass
- X Passenger Side, Yes – Pass

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

- X Driver Side, Yes – Pass
- X Passenger Side, Yes – Pass

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

- X Driver Side, Yes – Pass
- X Passenger Side, Yes – Pass

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

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

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

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

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

- ____________ actual distance

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

- ____________actual distance

- ____Yes-Pass  ____No-FAIL

4. Air Bag Alert Label (S4.5.1(c)) (A “Rollover Warning Label” or “Rollover Alert Label” may be on the same side of the driver’s sun visor as the “Air Bag Alert Label.” 575.105(d))
<table>
<thead>
<tr>
<th></th>
<th>4.1</th>
<th>Is the sun visor warning label visible when the sun visor is in the stowed position?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>X</td>
<td>If yes for driver and passenger, go to 5.</td>
</tr>
<tr>
<td></td>
<td>X</td>
<td>Driver Side, Yes - Pass</td>
</tr>
<tr>
<td></td>
<td>X</td>
<td>Driver Side, No - Fail</td>
</tr>
<tr>
<td></td>
<td>X</td>
<td>Passenger Side, Yes - Pass</td>
</tr>
<tr>
<td></td>
<td>X</td>
<td>Passenger Side, No - Fail</td>
</tr>
<tr>
<td></td>
<td>4.2</td>
<td>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))</td>
</tr>
<tr>
<td></td>
<td>Driver Side, Yes - Pass</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Driver Side, No - Fail</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Passenger Side, Yes - Pass</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Passenger Side, No - Fail</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4.3</td>
<td>Is the air bag alert label visible when the visor is in the stowed position? (S4.5.1(c))</td>
</tr>
<tr>
<td></td>
<td>Driver Side, Yes - Pass</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Driver Side, No - Fail</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Passenger Side, Yes - Pass</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Passenger Side, No - Fail</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4.4</td>
<td>Does the label conform in content to the label shown in Figure 6C? (S4.5.1(c))</td>
</tr>
<tr>
<td></td>
<td>Driver Side, Yes - Pass</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Driver Side, No - Fail</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Passenger Side, Yes – Pass</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Passenger Side, No - Fail</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4.5</td>
<td>Is the message area black with yellow text? (S4.5.1(c)(1))</td>
</tr>
<tr>
<td></td>
<td>Driver Side, Yes - Pass</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Driver Side, No - Fail</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Passenger Side, Yes - Pass</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Passenger Side, No - Fail</td>
<td></td>
</tr>
</tbody>
</table>
### 4.6 Is the message area at least 20 cm²? (S4.5.1(c)(1))

<table>
<thead>
<tr>
<th>Side</th>
<th>Length</th>
<th>Width</th>
<th>Actual message area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver Side</td>
<td>_____</td>
<td>_____</td>
<td>______</td>
</tr>
<tr>
<td>Passenger Side</td>
<td>_____</td>
<td>_____</td>
<td>______</td>
</tr>
</tbody>
</table>

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

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

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

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

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

<table>
<thead>
<tr>
<th>Side</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver Side</td>
<td>_____ mm</td>
</tr>
<tr>
<td>Passenger Side</td>
<td>_____ mm</td>
</tr>
</tbody>
</table>

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

---

### 5. Label on the Dashboard

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

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

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

- Yes - Pass
- No - Fail

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

- Yes - Pass
- No - Fail

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

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

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

Yes - Pass
No - Fail

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

Yes - Pass
No - Fail

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

Length 10.1 cm, Width 3.9 cm
Actual message area 39.39 cm²
Yes - Pass
No - Fail

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

Yes - Pass
No - Fail

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

Yes - Pass
No - Fail

5.2.2 Does the label conform in content to the label shown in Figure 7? (S4.5.1(e)(1)(iii))
Vehicles without back seats may omit the statement: “The back seat is the safest place for children.” (S4.5.1(e)(2)(iii))

Yes - Pass
No - Fail
5.2.3 Is the heading area yellow with the word “WARNING” and the alert symbol in black? (S4.5.1(e)(1)(i))

- Yes - Pass
- No - Fail

5.2.4 Is the message white with black text? (S4.5.1(e)(1)(ii))

- Yes - Pass
- No - Fail

5.2.5 Is the message area at least 30 cm²? (S4.5.1(e)(1)(ii))

- Yes - Pass
- No - Fail

Length ____, Width ____
Actual message area ____ cm²

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 9/30/04
DATA SHEET 6
FMVSS 208 READINESS INDICATOR (S4.5.2)

Test Vehicle: 2005 Toyota Corolla 4 Door  NHTSA No.: C55101
Test Program: FMVSS 208 Compliance  Test Date: 9/30/04
Test Technician: Wayne Dahlke

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

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

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

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

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

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

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

REMARKS:

I certify that I have read and performed each instruction.

Signature: Wayne Dahlke

Date: 9/30/04
DATA SHEET 7
PASSENGER AIR BAG MANUAL CUT-OFF DEVICE (S4.5.4)

Test Vehicle: 2005 Toyota Corolla 4 Door
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

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

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

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

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

N/A – No adjustments

Angle of reference line as tested:

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

N/A – No seat back angle adjustment

Manufacturers design seat back angle:

Tested seat back angle:

3.12 Is the driver seat a bucket seat?

Yes, go to 3.12.1 and skip 3.12.2

No, go to 3.12.2 and skip 3.12.1

3.12.1 Bucket Seats:

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

Record the width of the seat:

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

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

Distance (mm):

Less than 720 mm – Pass

More then 720 mm – Fail

Go to 4

3.12.2 Bench seats (including split bench seats):

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

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

Distance (mm):

Less than 720 mm – Pass

More then 720 mm – Fail
4. Does the device turn the air bag on and off using the vehicle’s ignition key? (S4.5.4.2)
   - Yes – Pass
   - No – Fail

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

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

7. Telltale light (S4.5.4.3)
   7.1 Is the light yellow? S4.5.4.3(a))
      - Yes – Pass
      - No – Fail
   7.2 Are the words “PASSENGER AIR BAG OFF” (S4.5.4.3(b))
      7.2.1 on the telltale?
         - Yes – Pass, go to 7.3
         - No – go to 7.2.2
      7.2.2 within 25 mm of the telltale?
         Measurement from the edge of the telltale light (mm):
         - 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:
- 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: 9/30/04
**DATA SHEET 8**

**LAP BELT LOCKABILITY**

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

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))

### DESIGNED SEATING POSITION: Front Passenger

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

**Test Vehicle:** 2005 Toyota Corolla 4 Door  
**NHTSA No.:** C55101  
**Test Program:** FMVSS 208 Compliance  
**Test Date:** 9/30/04  
**Test Technician:** Wayne Dahlke
9. Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))
   Measured distance between A and B (inches): 75.5 inches

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

11. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))
   Measured force application angle (Spec. 5-15 degrees): 8.0 degrees

12. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))
   Measured distance between A and B (inches): 34.75 inches

13. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))
   Record onset rate (lb/sec) (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5)): 35 lb/sec
   Measured distance between A and B (inches) (S7.1.1.5(c)(6)): 35.25 inches

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

15. Subtract the measurement in 9 from the measurement in 13. Is the difference 3 inches or more? (S7.1.1.5(c)(8))
   9 - 13 = 40.25 inches
   Yes – Pass
   No – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 9/30/04
### DATA SHEET 8

**LAP BELT LOCKABILITY**

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

<table>
<thead>
<tr>
<th>Test Vehicle:</th>
<th>2005 Toyota Corolla 4 Door</th>
</tr>
</thead>
<tbody>
<tr>
<td>NHTSA No.:</td>
<td>C55101</td>
</tr>
<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
</tr>
<tr>
<td>Test Date:</td>
<td>9/30/04</td>
</tr>
<tr>
<td>Test Technician:</td>
<td>Wayne Dahlke</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: 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</td>
</tr>
<tr>
<td></td>
<td>N/A – the retractor is an automatic locking retractor ONLY</td>
</tr>
<tr>
<td>X</td>
<td>1. Record test fore-aft seat position: Not Adjustable (S7.1.1.5(c)(1)) (Any position is acceptable)</td>
</tr>
<tr>
<td>X</td>
<td>2. Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT have to be attached by the vehicle user to the seat belt webbing, retractor, or any other part of the vehicle. (S7.1.1.5 (a))</td>
</tr>
<tr>
<td></td>
<td>Yes – Pass</td>
</tr>
<tr>
<td></td>
<td>No – Fail</td>
</tr>
<tr>
<td>X</td>
<td>3. Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT require inverting, twisting or deforming of the belt webbing. (S7.1.1.5 (a))</td>
</tr>
<tr>
<td>X</td>
<td>Yes – Pass</td>
</tr>
<tr>
<td></td>
<td>No – Fail</td>
</tr>
<tr>
<td>X</td>
<td>4. Buckle the seat belt. (S7.1.1.5(c)(1))</td>
</tr>
<tr>
<td>X</td>
<td>5. Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2))</td>
</tr>
<tr>
<td>X</td>
<td>6. Locate a reference point B on the attachment hardware or retractor assembly at the other end of the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))</td>
</tr>
<tr>
<td>X</td>
<td>7. Does the vehicle user need to take some action to activate the locking feature on the lap belt portion of the seat belt in any forward-facing seat or seat that can be adjusted to forward-facing?</td>
</tr>
<tr>
<td>X</td>
<td>Yes, go to 7.1</td>
</tr>
<tr>
<td></td>
<td>No, go to 8</td>
</tr>
<tr>
<td>X</td>
<td>7.1 Does the vehicle owner’s manual include a description in words and/or diagrams describing how to activate the locking feature so that the seat belt assembly can tightly secure a child restraint system and how to deactivate the locking feature to remove the child restraint system. (S7.1.1.5(b))</td>
</tr>
<tr>
<td>X</td>
<td>Yes – Pass</td>
</tr>
<tr>
<td></td>
<td>No – Fail</td>
</tr>
<tr>
<td>X</td>
<td>8. Adjust the lap belt or lap belt portion of the seat belt assembly according to any procedures recommended in the vehicle owner’s manual to activate any locking feature so that the webbing between points A and B is at the maximum length allowed by the belt system. (S7.1.1.5(c)(2) &amp; S7.1.1.5(c)(1))</td>
</tr>
</tbody>
</table>
9. Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. 
(S7.1.1.5(c)(2))

Measured distance between A and B (inches): 63.75 inches

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

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

Measured force application angle (Spec. 5-15 degrees): 6.9 degrees

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

Measured distance between A and B (inches): 25.0 inches

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

Record onset rate (lb/sec) (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5)): 35 lb/sec

Measured distance between A and B (inches) (S7.1.1.5(c)(6)): 25.75 inches

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

\[13 - 12 = 0.75 \text{ inches}\]

X Yes – Pass

X No – Fail

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

\[9 - 13 = 38.0 \text{ inches}\]

X Yes – Pass

X No – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: Wayne Zahls

Date: 9/30/04
DATA SHEET 8

LAP BELT LOCKABILITY

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

Test Vehicle: 2005 Toyota Corolla 4 Door
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

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

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

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

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

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

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

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

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

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

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

Measured distance between A and B (inches): 63.0 inches

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

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

Measured force application angle (Spec. 5-15 degrees): 8.7 degrees

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

Measured distance between A and B (inches): 22.5 inches

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

Record onset rate (lb/sec) (Spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5)): 35 lb/sec

Measured distance between A and B (inches) (S7.1.1.5(c)(6)): 23.5 inches

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

13 - 12 = 1.0 inch

Yes – Pass

No – Fail

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

9 - 13 = 39.5 inches

Yes – Pass

No – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 9/30/04
**DATA SHEET 8**

**LAP BELT LOCKABILITY**

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

<table>
<thead>
<tr>
<th>Test Vehicle:</th>
<th>2005 Toyota Corolla 4 Door</th>
<th>NHTSA No.:</th>
<th>C55101</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
<td>Test Date:</td>
<td>9/30/04</td>
</tr>
<tr>
<td>Test Technician:</td>
<td>Wayne Dahlke</td>
<td>N/A – no retractor is at this position</td>
<td></td>
</tr>
<tr>
<td></td>
<td>N/A – the retractor is an automatic locking retractor ONLY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Record test fore-aft seat position:</td>
<td>Not Adjustable (S7.1.1.5(c)(1)) (Any position is acceptable)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does <strong>NOT</strong> have to be attached by the vehicle user to the seat belt webbing, retractor, or any other part of the vehicle. (S7.1.1.5(a))</td>
<td>Yes – Pass</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does <strong>NOT</strong> require inverting, twisting or deforming of the belt webbing. (S7.1.1.5(a))</td>
<td>Yes – Pass</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Buckle the seat belt. (S7.1.1.5(c)(1))</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2))</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Locate a reference point B on the attachment hardware or retractor assembly at the other end of the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Does the vehicle user need to take some action to activate the locking feature on the lap belt portion of the seat belt in any forward-facing seat or seat that can be adjusted to forward-facing?</td>
<td>Yes, go to 7.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.1 Does the vehicle owner’s manual include a description in words and/or diagrams describing how to activate the locking feature so that the seat belt assembly can tightly secure a child restraint system and how to deactivate the locking feature to remove the child restraint system. (S7.1.1.5(b))</td>
<td>Yes – Pass</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Adjust the lap belt or lap belt portion of the seat belt assembly according to any procedures recommended in the vehicle owner’s manual to activate any locking feature so that the webbing between points A and B is at the maximum length allowed by the belt system. (S7.1.1.5(c)(2) &amp; S7.1.1.5(c)(1))</td>
<td></td>
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</tbody>
</table>
9. Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))
   Measured distance between A and B (inches): 61.5 inches

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

11. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))
   Measured force application angle (Spec. 5-15 degrees): 5.8 degrees

12. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))
   Measured distance between A and B (inches): 20.5 inches

13. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))
   Recorded onset rate (lb/sec) (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5)): 35 lb/sec
   Measured distance between A and B (inches) (S7.1.1.5(c)(6)): 22.5 inches

14. Subtract the measurement in 12 from the measurement in 13. Is the difference 2 inches or less? (S7.1.1.5(c)(7))
   13 - 12 = 2.0 inches
   Yes – Pass
   No – Fail

15. Subtract the measurement in 9 from the measurement in 13. Is the difference 3 inches or more? (S7.1.1.5(c)(8))
   9 - 13 = 39.0 inches
   Yes – Pass
   No – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 9/30/04
DATA SHEET 9
FMVSS 208 SEAT BELT WARNING SYSTEM CHECK (S7.3)

<table>
<thead>
<tr>
<th>Test Vehicle:</th>
<th>2005 Toyota Corolla 4 Door</th>
<th>NHTSA No.:</th>
<th>C55101</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
<td>Test Date:</td>
<td>9/30/04</td>
</tr>
<tr>
<td>Test Technician:</td>
<td>Wayne Dahlke</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. The occupant is in the driver’s seat.
2. The seat belt is in the stowed position.
3. The key is in the “on” or “start” position.
4. The time duration of the audible signal beginning with key “on” or “start” is
   Seconds: 6.0
5. The occupant is in the driver’s seat.
6. The seat belt is in the stowed position.
7. The key is in the “on” or “start” position.
8. The time duration of the warning light beginning with key “on” or “start” is
   Seconds: Stays On
9. The occupant is in the driver’s seat.
10. The seat belt is in the latched position and with at least 4 inches of belt webbing extended.
11. The key is in the “on” or “start” position.
12. The time duration of the audible signal beginning with key “on” or “start” is
    Seconds: 0.0
13. The occupant is in the driver’s seat.
14. The seat belt is in the latched position and with at least 4 inches of belt webbing extended.
15. The key is in the “on” or “start” position.
16. The time duration of the warning light beginning with key “on” or “start” is
    Seconds: 0.0
17. Complete the following table with the data from 4, 8, 12, and 16 to determine which option is used.

<table>
<thead>
<tr>
<th>Warning light specification</th>
<th>Audible signal specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item 16: 0.0</td>
<td>Item 12: 0.0</td>
</tr>
<tr>
<td>Item 8: Stays On</td>
<td>Item 4: 6.0</td>
</tr>
</tbody>
</table>

S7.3 (a)(1) Belt latched & key on or start
- Item 16: 0.0
- Item 8: Stays On
- Item 12: 0.0
- Item 4: 6.0
- 0 seconds**

S7.3 (a)(2) Belt stowed & key on or start
- Item 8: Stays On
- Item 12: 0.0
- Item 4: 6.0
- 4 to 8 seconds

49 USCS @ 30124 does NOT allow an audible signal to operate for more than 8 seconds.
** 0 seconds means the light or audible signal are NOT permitted to operate under these conditions.
See 7/12/00 interpretation to Patrick Raher of Hogan and Hartson
18. 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

19. Note wording of visual warning: (S7.3(a)(1) and S7.3(a)(2))
   - Fasten seat belts
   - Fasten belts
   - Symbol 101
   - FAIL – does not used any of the above working or symbol

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 9/30/04
DATA SHEET 10
BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2005 Toyota Corolla 4 Door
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

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

DESIGNATED SEATING POSITION: Left Rear Passenger

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

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

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

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

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

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

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

8. Draw a horizontal reference line on the side of the seat cushion.
   - X N/A, the seat does not have a fore-aft adjustment

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

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

Test Vehicle: 2005 Toyota Corolla 4 Door
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

Test Date: 9/30/04
11. If seat adjustments other than fore-aft are present and the horizontal reference line is no longer horizontal, use those adjustments to maintain the reference line as closely as possible to the horizontal. (S16.2.10.3.2.1)  
X  N/A, no adjustments  
Reference line angle as tested:

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

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

14. Fasten the seat belt latch.

15. Pull either 12 inches of belt webbing or the maximum available amount of belt webbing, whichever is less, from the retractor and then release it, allowing the belt webbing to return to the dummy's chest.  
16. Locate the point where the centerline of the upper torso belt webbing crosses the midsagittal line on the dummy's chest. At that point pull the belt webbing out 3 inches from the dummy's chest and release until it is within one inch from the dummy's chest. (S10.8) Using a force measuring gage with a full scale range of no more than 1.5 pounds, measure the contact force perpendicular to the dummy's chest exerted by the belt webbing.  
X  Contact Force (lb): 0.16  
X  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:  9/30/04
DATA SHEET 10
BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2005 Toyota Corolla 4 Door  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke  
NHTSA No.: C55101  
Test Date: 9/30/04

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

**DESIGNATED SEATING POSITION:** Center Rear Passenger

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

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

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

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

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

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

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

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

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

10. Using only the controls that change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the middle fore-aft position for this test. (S8.1.2)
    - Mid position
    If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat: Not adjustable
11. If seat adjustments other than fore-aft are present and the horizontal reference line is no longer horizontal, use those adjustments to maintain the reference line as closely as possible to the horizontal. (S16.2.10.3.2.1)  
   X N/A, no adjustments  
   Reference line angle as tested:  

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

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

14. Fasten the seat belt latch.  

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

16. Locate the point where the centerline of the upper torso belt webbing crosses the midsagittal line on the dummy’s chest. At that point pull the belt webbing out 3 inches from the dummy’s chest and release until it is within one inch from the dummy’s chest. (S10.8) Using a force measuring gage with a full scale range of no more than 1.5 pounds, measure the contact force perpendicular to the dummy’s chest exerted by the belt webbing.  
   X Contact Force (lb): 0.20  
   X 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:  9/30/04
DATA SHEET 10  
BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2005 Toyota Corolla 4 Door  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke  
NHTSA No.: C55101  
Test Date: 9/30/04

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

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

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

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

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

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

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

10. Using only the controls that change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the middle fore-aft position for this test. (S8.1.2)
    - Mid position
    If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat: Not adjustable
11. If seat adjustments other than fore-aft are present and the horizontal reference line is no longer horizontal, use those adjustments to maintain the reference line as closely as possible to the horizontal. (S16.2.10.3.2.1)
   N/A, no adjustments

   Reference line angle as tested:

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

   Manufacturer’s design seat back angle:
   Tested seat back angle:

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

14. Fasten the seat belt latch.

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

16. Locate the point where the centerline of the upper torso belt webbing crosses the midsagittal line on the dummy’s chest. At that point pull the belt webbing out 3 inches from the dummy’s chest and release until it is within one inch from the dummy’s chest. (S10.8) Using a force measuring gage with a full scale range of no more than 1.5 pounds, measure the contact force perpendicular to the dummy’s chest exerted by the belt webbing.
   Contact Force (lb): 0.14
   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: 9/30/04
DATA SHEET 11
LATCH PLATE ACCESS (S7.4.4)

Test Vehicle: 2005 Toyota Corolla 4 Door  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke  
NHTSA No.: C55101  
Test Date: 9/30/04

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

DESIGNATED SEATING POSITION: 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. (8.1.3)
   N/A, no lumbar adjustment

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

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

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

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

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

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

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

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

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

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

N/A, no seat back angle adjustment

Manufacturer's design seat back angle:

Tested seat back angle:

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

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

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

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

16. Place the latch plate in the stowed position.

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

Yes – Pass

No

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

Yes – Pass

No

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

Yes – Pass

No – Fail

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

Yes – Pass

No – Fail
Attach the Inboard Reach String (19\(\frac{1}{2}\)" long) at the base of the head on centerline.

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

A—Using flexible tape measure 8" from back centerline 10\(\frac{1}{4}\)" from front centerline to find anchor point below arm pit on torso sheath.

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

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 9/30/04
DATA SHEET 12
SEAT BELT RETRACTION (S7.4.5)

Test Vehicle: 2005 Toyota Corolla 4 Door  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke  
NHTSA No.: C55101  
Test Date: 9/30/04

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

**DESIGNATED SEATING POSITION:** Not Applicable For Any Position - Passenger Car  
**GVWR:**

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

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

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

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

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

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

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

N/A – no seat adjustment

Reference angle as tested:

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

N/A – no seat back angle adjustment

Manufacturer's design seat back angle:
Tested seat back angle:

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

N/A – no head restraint adjustment

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

N/A – no adjustable upper seat belt anchorage

Manufacturer’s specified anchorage position:
Tested anchorage position:

15. Is the driver seat a bucket seat?

Yes, go to 15.1 and skip 15.2.
No, go to 15.2 and skip 15.1

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

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

15.2 Bench seats (including split bench seats):
- Driver seat: Locate and mark a vertical Plane B through the center of the steering wheel parallel to the vehicle longitudinal centerline.
- Passenger seat: Locate and mark a vertical longitudinal Plane B on the seat that is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel.

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

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

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

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

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

20. Set the distance between the outboard knee clevis flange surfaces at 10.6 inches. Measured distance (10.6 inches) (S10.5):

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

22. Fasten the seat belt around the dummy.

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

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

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

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

- Yes, continue
- No, go to 27

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

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

27.1 Check the statement that applies to this test vehicle:

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

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

- Neither A or B apply Fail

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

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

- N/A
- Yes – Pass
- No – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 9/30/04
DATA SHEET 13

SEAT BELT GUIDES AND HARDWARE (S7.4.6)

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

DESIGNATED SEATING POSITION: Left 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

Test Vehicle: 2005 Toyota Corolla 4 Door
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke
NHTSA No.: C55101
Test Date: 9/30/04
8. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat is moved to any position to which it is designed to be adjusted. (S7.4.6.2)
   - Yes – Pass
   - No – Fail

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

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

**REMARKS:**

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 9/30/04
Test seat belts except those in walk-in van-type vehicles and those at front outboard designated seating positions in passenger cars. Complete a form for each applicable seat belt.

**DESIGNATED SEATING POSITION:** Center Rear Passenger

1. Is the seat cushion movable so that the seat back serves a function other than seating? (S7.4.6.1(b))
   - Yes, this form is complete
   - 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)
   - X 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)
   - X 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)
    - No – Fail
    - X N/A – Rear seat

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

Signature: [Signature]
Date: 9/30/04
DATA SHEET 13
SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2005 Toyota Corolla 4 Door  NHTSA No.: C55101
Test Program: FMVSS 208 Compliance  Test Date: 9/30/04
Test Technician: Wayne Dahlke

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

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

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

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

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

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

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

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

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

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

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

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 9/30/04
MARKING OF REFERENCE POINTS FOR VARIOUS TEST POSITIONS AND POINTS

Test Vehicle: 2005 Toyota Corolla
Test Program: FMVSS 208 Compliance
Test Technician: Eric Peschman
NHTSA No.: C55101
Test Date: 3/23/05

1. Driver Designated Seating Position:
   1.1 Position the seat’s adjustable lumbar supports so that the lumbar supports are in the lowest, retracted or deflated adjustment positions. (S16.2.10.1)
       X N/A – No lumbar adjustment
   1.2 Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position (S16.2.10.2)
       X N/A – No additional support adjustment
   1.3 Mark a point (seat cushion reference point) on the side of the seat cushion that is between 150 mm and 250 mm from the front edge of the seat cushion.
   1.4 Draw a line (seat cushion reference line) through the seat cushion reference point.
   1.5 Using only the controls that primarily move the seat in the fore-aft direction, move the seat cushion reference point to the rearmost position.
   1.6 If the seat cushion adjusts fore-aft, independent of the seat back, use only the controls that primarily move the seat cushion in the fore-aft direction to move the seat cushion reference point to the rearmost position (S16.2.10.3)
       X N/A – No independent fore-aft seat cushion adjustment
   1.7 Using any part of any control, other than the parts just used for fore-aft positioning, determine the range of angles of the seat cushion reference line and set the seat cushion reference line at the mid-angle.
       Maximum Angle: 1.8° Nose Up
       Minimum Angle: 4.8° Nose Down
       Mid-angle: 1.5° Nose Down
   1.8 If the seat and/or seat cushion height is adjustable, use any part of any control other than those which primarily move the seat or seat cushion fore-aft, to put the seat cushion reference point in its lowest position with the seat cushion reference line angle at the mid-angle found in 1.7.
       X N/A – No seat height adjustment
   1.9 Using only the controls that primarily move the seat in the fore-aft direction, verify the seat is in the rearmost position.
   1.10 Using only the controls that primarily move the seat in the fore-aft direction, mark for future reference the fore-aft seat positions. Mark each position so that there is a visual indication when the seat is at a particular position. For manual seats, move the seat forward one detent at a time and mark each detent. For power seats, mark only the rearmost, middle, and foremost positions. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the closest adjustment position to the rear of the mid-point), and R for rearmost.
   1.11 Use only the controls that primarily move the seat in the fore-aft direction to place the seat in the rearmost position.
   1.12 Using any controls, other than the controls that primarily move the seat and/or seat cushion in the fore-aft direction, find and visually mark for future reference the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.7.
1.13 Using only the controls that primarily move the seat and/or seat cushion in the fore-aft direction, place the seat in the mid-fore-aft position.

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

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

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

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

N/A – No seat back angle adjustment

Manufacturer's design seat back angle: 88.3 degrees on Head Rest Post

1.18 Is the seat a bucket seat?

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

1.18.1 Bucket seats:

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

- Record the width of the seat cushion: Used SRP Provided By Manufacturer
- One half the width of the seat cushion is: Used SRP Provided By Manufacturer
- Record the distance from the edge of the seat cushion to the seat mark: 260 mm

1.18.2 Bench seats:

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

2. Passenger Designated Seating Position

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

- Yes, go to 2.2
- No, go to 2.18

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

N/A – No lumbar adjustment

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

N/A – No additional support adjustment

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

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

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

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

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

Maximum Angle: Not Adjustable

Minimum Angle: Not Adjustable

Mid-angle: Not Adjustable

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

N/A – No seat height adjustment

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

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

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

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

N/A – No seat height adjustment Go to 2.18

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

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

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

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

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

Manufacturer’s design seat back angle: 89° on Head Rest Post
Actual seat back angle: 88.7° on Head Rest Post

2.19 Is the seat a bucket seat?

- Yes, go to 2.19.1 and skip 2.19.2
- No, go to 2.19.2 and skip 2.19.1

2.19.1 Bucket seats:

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

Record the width of the seat cushion: Used SRP Provided By Manufacturer
One half the width of the seat cushion is: Used SRP Provided By Manufacturer

- Record the distance from the edge of the seat cushion to the longitudinal centerline of the seat cushion. (The vertical plane through this longitudinal centerline is Plane B for suppression.) 260 mm

2.19.2 Bench seats:

- Locate and mark for future reference the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S20.2.1.3, S22.2.1.3)

- 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.)

3. Head Restraints

- N/A, vehicle contains automatic head restraints
- N/A, there is no head restraint adjustment

3.1 Left outboard

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

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

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

Vertical height of head restraint (mm): 180
Mid-point height (mm): 90

3.2 Right outboard

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

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

Vertical height of head restraint (mm): 180
Mid-point height (mm): 90

4. Steering Wheel

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

× Yes, go to 4.2

× No, this form is complete

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

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

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

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

5. Driver Low Risk Deployment

× N/A, no low risk deployment tests scheduled

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

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

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

× Plane E determined using manufacturer’s information supplied by the COTR. (Found in Appendix D on page D-39)

× Plane E determined by test lab personnel and approved by the COTR.

(Include supporting documentation in the test report.)

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

Plane F determined using manufacturer’s information supplied by the COTR. (Found in Appendix D on page D-39)

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

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

6. Passenger Low Risk Deployment – Planes C and D

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

Plane C located using manufacturer’s information supplied by the COTR. (Include manufacturer’s information in the test report.) OR

Plane C located by test lab personnel and approved by the COTR. (Include supporting documentation in the test report.)

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

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

Plane D determined using manufacturer’s information supplied by the COTR. (Include manufacturer’s information in the test report.) OR

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

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

6.3 Mark the intersection of Planes C and D on the instrument panel.
7. **5th Female Dummy**
   Mark a point on the chin of the dummy 40 mm below the center of the mouth. (Chin Point) (S26.2.6)

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

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

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

Signature: ____________________  Date: 3/23/05
DATA SHEET 15 SUMMARY
Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart R)
Section B Rear Facing CRS

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C55101</th>
<th>TEST DATE:</th>
<th>1-06-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
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<td>TECHNICIANS:</td>
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<td>DUMMY TYPE:</td>
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<td>DUMMY SERIAL NO.:</td>
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CHILD RESTRAINT NAME: Britax
CHILD RESTRAINT MODEL: Handle With Care 191
DATE OF MANUFACTURE: 5-26-2000

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

Manufacturer’s design seat back angle: 89° On Head Rest Post
Tested seat back angle: 88.8° On Head Rest Post
Manufacturer’s specified anchorage position: 2nd Down From Top
Tested anchorage position: 2nd Down From Top

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

### Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>Handle Down</th>
<th>Handle Up</th>
</tr>
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<tbody>
<tr>
<td>Belted</td>
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<td>128</td>
<td>Suppressed</td>
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<td>Rear</td>
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<td>Rearward</td>
<td>133</td>
<td>Suppressed</td>
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<td>Unbelted</td>
<td>Forward</td>
<td>N/A</td>
<td>Suppressed</td>
<td>N/A</td>
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<td>Rear</td>
<td>Middle</td>
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<td>N/A</td>
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<td>Facing</td>
<td>Rearward</td>
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Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN506)

* 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; 17 = Full Rearward; 17 total Seat Slide detents)
DATA SHEET 15 SUMMARY
Suppression Test Using 12-month-old CRABI Dummy  (Part 572, Subpart R)
Section B Rear Facing CRS

<table>
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<table>
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<td>6-20-2000</td>
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Base: ___On ___Off ___X N/A-Restraint does not have a removable base

Manufacturer’s design seat back angle: 89° On Head Rest Post
Tested seat back angle: 88.8° On Head Rest Post
Manufacturer’s specified anchorage position: 2nd Down From Top
Tested anchorage position: 2nd Down From Top

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>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>Handle Down</th>
<th>Handle Up</th>
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<tbody>
<tr>
<td>Belted</td>
<td>Forward 7 *</td>
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<td>Unbelted</td>
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<td>N/A</td>
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<td>Rearward</td>
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<td>N/A</td>
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Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN506)

* 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; 17 = Full Rearward; 17 total Seat Slide detents)
DATA SHEET 15 SUMMARY
Suppression Test Using 12-month-old CRABI Dummy  (Part 572, Subpart R)
Section B  Rear Facing CRS

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<td>DUMMY SERIAL NO.:</td>
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<tr>
<th>CHILD RESTRAINT NAME:</th>
<th>CHILD RESTRAINT MODEL:</th>
<th>DATE OF MANUFACTURE:</th>
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<tr>
<td>Graco</td>
<td>Infant 8457</td>
<td>8-31-2000</td>
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Base:  __X__On  __Off  __N/A-Restraint does not have a removable base

Manufacturer’s design seat back angle:  89° On Head Rest Post
Tested seat back angle:  88.8° On Head Rest Post
Manufacturer’s specified anchorage position:  2nd Down From Top
Tested anchorage position:  2nd Down From Top

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>
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* 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; 17 = Full Rearward; 17 total Seat Slide detents)
DATA SHEET 15 SUMMARY
Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart R)
Section B Rear Facing CRS

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<td>DUMMY TYPE:</td>
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<th>CHILD RESTRAINT NAME:</th>
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<td>DATE OF MANUFACTURE:</td>
<td>8-31-2000</td>
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Base: ___On ___Off ___N/A-Restraint does not have a removable base

Manufacturer’s design seat back angle:   89° On Head Rest Post
Tested seat back angle:                   88.8° On Head Rest Post
Manufacturer’s specified anchorage position: 2nd Down From Top
Tested anchorage position:                2nd Down From Top

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>
<th>Seat Belt</th>
<th>Seat Slide</th>
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<th>Handle Up</th>
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<td>N/A</td>
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<td>Forward 5 *</td>
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<td></td>
<td></td>
<td>Rearward</td>
<td>N/A</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
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</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN506)

* 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; 17 = Full Rearward; 17 total Seat Slide detents)
DATA SHEET 15 SUMMARY
Suppression Test Using 12-month-old CRABI Dummy  (Part 572, Subpart R)
Section C  Forward Facing Convertible CRS

<table>
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<th>NHTSA No.:</th>
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<th>CHILD RESTRAINT NAME:</th>
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Base: ___On ___Off ___X N/A-Restraint does not have a removable base

Manufacturer’s design seat back angle: 89° On Head Rest Post
Tested seat back angle: 88.8° On Head Rest Post
Manufacturer’s specified anchorage position: 2nd Down From Top
Tested anchorage position: 2nd Down From Top

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>
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</thead>
<tbody>
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<td>Belted</td>
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Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN506)
DATA SHEET 15 SUMMARY
Suppression Test Using 12-month-old CRABI Dummy  (Part 572, Subpart R)
Section C  Forward Facing Convertible CRS

<table>
<thead>
<tr>
<th>NHTSA No.</th>
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Base: __On__ __Off__ __X__ N/A-Restraint does not have a removable base

Manufacturer’s design seat back angle: 89° On Head Rest Post
Tested seat back angle: 88.8° On Head Rest Post
Manufacturer’s specified anchorage position: 2nd Down From Top
Tested anchorage position: 2nd Down From Top

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

**Test Summary**

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
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<td>Unbelted</td>
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Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN506)

* 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; 17 = Full Rearward; 17 total Seat Slide detents)
DATA SHEET 15 SUMMARY

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

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<td>DUMMY SERIAL NO.:</td>
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Base: ___On ___Off ___X N/A-Restraint does not have a removable base

Manufacturer’s design seat back angle: 89° On Head Rest Post
Tested seat back angle: 88.8° On Head Rest Post
Manufacturer’s specified anchorage position: 2nd Down From Top
Tested anchorage position: 2nd Down From Top

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

Test Summary

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

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN506)

* 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; 17 = Full Rearward; 17 total Seat Slide detents)
DATA SHEET 16 SUMMARY
Suppression Test Using Newborn Infant Dummy (Part 572, Subpart K)
Section A Car Bed

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C55101</th>
<th>TEST DATE:</th>
<th>1-10-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL</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: 89° On Head Rest Post
Tested seat back angle: 88.8° On Head Rest Post
Manufacturer's specified anchorage position: 2nd Down From Top
Tested anchorage position: 2nd Down From Top

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

**Test Summary**

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

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN506)

* 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; 17 = Full Rearward; 17 total Seat Slide detents)
DATA SHEET 17 SUMMARY
Suppression Test Using 3 Year Old Dummy And Booster Seats (Part 572, Subpart P)
Section D Forward Facing Belt Positioning Booster

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C55101</th>
<th>TEST DATE:</th>
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<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>3 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>031</td>
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</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: 89° On Head Rest Post
Tested seat back angle: 88.8° On Head Rest Post
Manufacturer’s specified anchorage position: 2nd Down From Top
Tested anchorage position: 2nd Down From Top

Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>No Blanket</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward 5 *</td>
<td>13</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward Facing Without Harness</td>
<td>Middle</td>
<td>14</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Rearward</td>
<td>14</td>
<td>Suppressed</td>
<td></td>
</tr>
<tr>
<td>Belted</td>
<td>Forward 5 *</td>
<td>130</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward Facing Cinched With Harness</td>
<td>Middle</td>
<td>131</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Rearward</td>
<td>127</td>
<td>Suppressed</td>
<td></td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN506)

* 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; 17 = Full Rearward; 17 total Seat Slide detents)
DATA SHEET 17 SUMMARY
Suppression Test Using 3 Year Old Dummy And Booster Seats (Part 572, Subpart P)
Section D  Forward Facing Toddler Belt Positioning Booster Seat

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C55101</th>
<th>TEST DATE:</th>
<th>1-10-05</th>
</tr>
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<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>3 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>031</td>
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</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>
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<tr>
<td>DATE OF MANUFACTURE:</td>
<td>4-28-2000</td>
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</table>

Manufacturer’s design seat back angle: 89° On Head Rest Post
Tested seat back angle: 88.8° On Head Rest Post
Manufacturer’s specified anchorage position: 2nd Down From Top
Tested anchorage position: 2nd Down From Top

Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>No Blanket</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward</td>
<td>N/A</td>
<td>Won’t Fit</td>
</tr>
<tr>
<td>Forward Facing</td>
<td>Middle 11 *</td>
<td>13</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Without Harness</td>
<td>Rearward</td>
<td>15</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Belted</td>
<td>Forward</td>
<td>N/A</td>
<td>Won’t Fit</td>
</tr>
<tr>
<td>Forward Facing</td>
<td>Middle 11 *</td>
<td>133</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Cinched With Harness</td>
<td>Rearward</td>
<td>129</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN506)

* The CRS would not fit in this Middle 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; 17 = Full Rearward; 17 total Seat Slide detents)
DATA SHEET 18 SUMMARY
Suppression Test Using 3 Year Old Dummy And Convertible Restraints (Part 572, Subpart P)
Section C  Forward Facing Convertible CRS

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C55101</th>
<th>TEST DATE:</th>
<th>1-06-05</th>
</tr>
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<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL</td>
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<tr>
<td>DUMMY TYPE:</td>
<td>3 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
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</table>

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

Manufacturer’s design seat back angle: 89° On Head Rest Post
Tested seat back angle: 88.8° On Head Rest Post
Manufacturer’s specified anchorage position: 2nd Down From Top
Tested anchorage position: 2nd Down From Top

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>N/A</td>
<td>Won’t Fit</td>
</tr>
<tr>
<td></td>
<td>Middle 11 *</td>
<td>131</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>129</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN506)

* The CRS would not fit in this Middle 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; 17 = Full Rearward; 17 total Seat Slide detents)
DATA SHEET 18 SUMMARY
Suppression Test Using 3 Year Old Dummy And Convertible Restraints (Part 572, Subpart P)
Section C  Forward Facing Convertible CRS

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C55101</th>
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<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL</td>
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<tr>
<td>DUMMY TYPE:</td>
<td>3 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>031</td>
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</table>

<table>
<thead>
<tr>
<th>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>
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</tbody>
</table>

Manufacturer’s design seat back angle: 89° On Head Rest Post
Tested seat back angle: 88.8° On Head Rest Post
Manufacturer’s specified anchorage position: 2nd Down From Top
Tested anchorage position: 2nd Down From Top

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>N/A</td>
<td>Won’t Fit</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 Middle position. (SN506)
DATA SHEET 18 SUMMARY
Suppression Test Using 3 Year Old Dummy And Convertible Restraints (Part 572, Subpart P)
Section C  Forward Facing Convertible CRS

<table>
<thead>
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<th>NHTSA No.:</th>
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<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>3 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>031</td>
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<table>
<thead>
<tr>
<th>CHILD RESTRAINT NAME:</th>
<th>Evenflo</th>
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<tbody>
<tr>
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<td>Medallion 254</td>
</tr>
<tr>
<td>DATE OF MANUFACTURE:</td>
<td>6-1-2000</td>
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</table>

Manufacturer’s design seat back angle: 89° On Head Rest Post  
Tested seat back angle: 88.8° On Head Rest Post  
Manufacturer’s specified anchorage position: 2nd Down From Top  
Tested anchorage position: 2nd Down From Top

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

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN506)
DATA SHEET 19 SUMMARY
Suppression Test Using An Unbelted 3 Year Old Dummy (Part 572, Subpart P)
No CRS

<table>
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<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>3 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>031</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>Position 1</td>
<td>Sitting on seat with back against seat back</td>
<td>Forward</td>
<td>88.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Middle</td>
<td>88.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rearward</td>
<td>88.8</td>
</tr>
<tr>
<td>Position 2</td>
<td>Sitting on seat with back against reclined seat back</td>
<td>Forward</td>
<td>64.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Middle</td>
<td>64.5</td>
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<tr>
<td></td>
<td></td>
<td>Rearward</td>
<td>64.5</td>
</tr>
<tr>
<td>Position 3</td>
<td>Sitting on seat with back not against seat back</td>
<td>Forward 3*</td>
<td>88.8</td>
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<tr>
<td></td>
<td></td>
<td>Middle</td>
<td>88.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rearward</td>
<td>88.8</td>
</tr>
<tr>
<td>Position 4</td>
<td>Sitting on seat edge, spine vertical, hands at dummy's sides</td>
<td>Forward</td>
<td>88.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Middle</td>
<td>88.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rearward</td>
<td>88.8</td>
</tr>
<tr>
<td>Position 5</td>
<td>Standing on seat, facing forward</td>
<td>Forward</td>
<td>88.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Middle</td>
<td>88.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rearward</td>
<td>88.8</td>
</tr>
<tr>
<td>Position 6</td>
<td>Kneeling on seat, facing forward</td>
<td>Forward</td>
<td>88.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Middle</td>
<td>88.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rearward</td>
<td>88.8</td>
</tr>
<tr>
<td>Position 7</td>
<td>Kneeling on seat, facing rearward</td>
<td>Forward</td>
<td>88.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Middle</td>
<td>88.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rearward</td>
<td>88.8</td>
</tr>
<tr>
<td>Position 8</td>
<td>Lying on seat. (Three designated seating positions only)</td>
<td>Forward</td>
<td>N/A</td>
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<tr>
<td></td>
<td></td>
<td>Middle</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rearward</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN506)

* 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; 17 = Full Rearward; 17 total Seat Slide detents)
DATA SHEET 20 SUMMARY
Suppression Test Using 6 Year Old Dummy And Booster Seats (Part 572, Subpart N)
Section D  Forward Facing Toddler Belt Positioning Booster Seat

<table>
<thead>
<tr>
<th>DATA SHEET 20 SUMMARY</th>
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<td><strong>LABORATORY:</strong></td>
</tr>
<tr>
<td><strong>TECHNICIANS:</strong></td>
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<td><strong>DUMMY TYPE:</strong></td>
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<tr>
<td><strong>DUMMY SERIAL NO.:</strong></td>
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<table>
<thead>
<tr>
<th>BOOSTER SEAT NAME:</th>
<th>Century</th>
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</thead>
<tbody>
<tr>
<td><strong>BOOSTER SEAT MODEL:</strong></td>
<td>Next Step 4920</td>
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<td><strong>DATE OF MANUFACTURE:</strong></td>
<td>8-16-2000</td>
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</table>

Manufacturer’s design seat back angle: 89° On Head Rest Post
Tested seat back angle: 88.8° On Head Rest Post
Manufacturer’s specified anchorage position: 2nd Down From Top
Tested anchorage position: 2nd Down From Top

<table>
<thead>
<tr>
<th>Test Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Seat Belt</strong></td>
</tr>
<tr>
<td><strong>Belted</strong></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. (SN506)
DATA SHEET 20 SUMMARY
Suppression Test Using 6 Year Old Dummy And Booster Seats (Part 572, Subpart N)
Section D  Forward Facing Toddler Belt Positioning Booster Seat

<table>
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<tr>
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<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL</td>
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<tr>
<td>DUMMY TYPE:</td>
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<td>Cosco</td>
</tr>
<tr>
<td>BOOSTER SEAT MODEL:</td>
<td></td>
<td></td>
<td>High Back Booster 02-442</td>
</tr>
<tr>
<td>DATE OF MANUFACTURE:</td>
<td></td>
<td></td>
<td>4-28-2000</td>
</tr>
</tbody>
</table>

Manufacturer’s design seat back angle: 89° On Head Rest Post
Tested seat back angle: 88.8° On Head Rest Post
Manufacturer’s specified anchorage position: 2nd Down From Top
Tested anchorage position: 2nd Down From Top

### Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Belt Load (N)</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Forward</td>
<td>17</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>11</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>16</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN506)
DATA SHEET 20 SUMMARY
Suppression Test Using 6-Year-Old Dummy And Booster Seats (Part 572, Subpart N)
Section D  Forward Facing Toddler Belt Positioning Booster Seat

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>TEST DATE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>C55101</td>
<td>1-10-05</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LABORATORY:</th>
<th>TECHNICIANS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGA</td>
<td>JL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DUMMY TYPE:</th>
<th>DUMMY SERIAL NO.:</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 Year Old</td>
<td>153</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BOOSTER SEAT NAME:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evenflo</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BOOSTER SEAT MODEL:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right Fit 245</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DATE OF MANUFACTURE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-26-2000</td>
</tr>
</tbody>
</table>

Manufacturer’s design seat back angle:  89° On Head Rest Post
Tested seat back angle:  88.8° On Head Rest Post
Manufacturer’s specified anchorage position:  2nd Down From Top
Tested anchorage position:  2nd Down From Top

**Test Summary**

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Belt Load (N)</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward 5 *</td>
<td>14</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>18</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>13</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN506)

* 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; 17 = Full Rearward; 17 total Seat Slide detents)
## Test Summary

<table>
<thead>
<tr>
<th>Position</th>
<th>Seat Slide</th>
<th>Seat Back Angle</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position 1</td>
<td>Forward 7 *</td>
<td>88.8</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Sitting on seat with back against seat back</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>88.8</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>88.8</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Position 2</td>
<td>Forward 7 *</td>
<td>64.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Sitting on seat with back against reclined seat back</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>64.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>64.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Position 3</td>
<td>Forward 6 *</td>
<td>88.8</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Sitting on seat edge, spine vertical, hands at dummy's sides</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>88.8</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>88.8</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Position 4</td>
<td>Forward</td>
<td>N/A</td>
<td>Won’t Fit</td>
</tr>
<tr>
<td>Sitting on seat with back against seat back then leaning on the door</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>88.8</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>88.8</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN506)

* 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; 17 = Full Rearward; 17 total Seat Slide detents)
DATA SHEET 27 SUMMARY
Low Risk Deployment Tests Using an Unbelted 5th Percentile Female Dummy (Part 572, Subpart O) (S26)
Position 1 - Chin On Module (S26.2)

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C55101</th>
<th>TEST DATE:</th>
<th>1-28-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>BR/AH</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>5th Percentile Female</td>
<td>DUMMY SERIAL NO.:</td>
<td>506</td>
</tr>
</tbody>
</table>

Manufacturer’s design seat back angle: 88.3° On Head Rest Post
Tested seat back angle: 88.3° On Head Rest Post
Tested seat position: Full Aft
Tested steering wheel angle: 26.8°
Thorax cavity angle: 32.5°
Chin Point height: 0 mm

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>40.0</td>
<td>40.3</td>
</tr>
</tbody>
</table>

5th Percentile Female SN 506 Position 1 (Chin On Module) 1-28-05

<table>
<thead>
<tr>
<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Measured Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIC15</td>
<td>700</td>
<td>76</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.7</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>52.2</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
<td>1.0</td>
<td>0.3</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>9.8</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.4</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>165.0</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>19.8</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2070 N</td>
<td>1607</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>386</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>14</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>8</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>28</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>36</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 40 ms; Injuries calculated on 0 ms to 165 ms
DATA SHEET 28 SUMMARY
Low Risk Deployment Tests Using an Unbelted 5th Percentile Female Dummy (Part 572, Subpart O) (S26)
Position 2 - Chin On Rim (S26.3)

NHTSA No.: C55101  TEST DATE:  1-28-05
LABORATORY: MGA  TECHNICIANS: BR/AH
DUMMY TYPE: 5th Percentile Female  DUMMY SERIAL NO.: 511

Manufacturer’s design seat back angle:  88.3° On Head Rest Post
Tested seat back angle:  88.3° On Head Rest Post
Tested seat position:  Full Aft

Tested steering wheel angle:  26.1°*
Thorax cavity angle:  31.7°
Chin Point height:  4 mm Below Minus10mm Rim Target

*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>40.0</td>
<td>40.5</td>
</tr>
</tbody>
</table>

5th Percentile Female SN 511 Position 2 (Chin On Rim) 1-28-05

<table>
<thead>
<tr>
<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Measured Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIC15</td>
<td>700</td>
<td>58</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.6</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>52.3</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>88.0</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>9.8</td>
</tr>
<tr>
<td>Peak Nij (Ncf)</td>
<td>1.0</td>
<td>0.3</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>92.7</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2070 N</td>
<td>1062</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>173</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>18</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>13</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>125</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>7</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 40 ms; Injuries calculated on 0 ms to 165 ms
DATA SHEET 30
VEHICLE WEIGHT, FUEL TANK, AND ATTITUDE DATA

Test Vehicle: 2005 Toyota Corolla
Test Program: FMVSS 208 Compliance
Test Technician: Nick Kosinski

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

1. Fill the transmission with transmission fluid to the satisfactory range.
2. Drain fuel from vehicle
3. Run the engine until fuel remaining in the fuel delivery system is used and the engine stops.
4. Record the useable fuel tank capacity supplied by the COTR
   Useable Fuel Tank Capacity supplied by COTR: 50.0 liters (13.2 gallons)
5. Record the fuel tank capacity supplied in the owner's manual.
   Useable Fuel Tank Capacity in owner's manual: 50.0 liters (13.2 gallons)
6. Using purple dyed Stoddard solvent having the physical and chemical properties of Type 1 solvent or cleaning fluid, Table 1, ASTM Standard D484-71, "Standard Specifications for Hydrocarbon Dry-cleaning Solvents," or gasoline, fill the fuel tank.
   Amount Added: 50.0 liters (13.2 gallons)
7. Fill the coolant system to capacity.
8. Fill the engine with motor oil to the Max. mark on the dip stick.
9. Fill the brake reservoir with brake fluid to its normal level.
10. Fill the windshield washer reservoir to capacity.
11. Inflate the tires to the tire pressure on the tire placard. If no tire placard is available, inflate the tires to the recommended pressure in the owner’s manual.
   | Tire placard pressure: | RF: 30 psi | LF: 30 psi | RR: 30 psi | LR: 30 psi |
   | Owner’s manual pressure: | RF: 30 psi | LF: 30 psi | RR: 30 psi | LR: 30 psi |
   | Actual inflated pressure: | RF: 30 psi | LF: 30 psi | RR: 30 psi | LR: 30 psi |
12. Record the vehicle weight at each wheel to determine the unloaded vehicle weight (UVW), i.e. "as delivered" weight.
   | Right Front (kg): | 346.5 | Right Rear (kg): | 229.1 |
   | Left Front (kg): | 375.6 | Left Rear (kg): | 217.7 |
   | Total Front (kg): | 722.1 | Total Rear (kg): | 446.8 |
   | % Total Weight: | 61.8 | % Total Weight: | 38.2 |
   | UVW = TOTAL FRONT PLUS TOTAL REAR (KG): | 1168.9 |

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: 683 | LF: 682 | RR: 711 | LR: 707 |

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): 1370.3 kg

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

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

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

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

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

| Right Front (kg): 375.6 | Right Rear (kg): 293.9 |
| Left Front (kg): 412.3 | Left Rear (kg): 288.5 |
| Total Front (kg): 787.9 | Total Rear (kg): 582.4 |
| % Total Weight: 57.5 | % Total Weight: 42.5 |
| % GVW: 52.6 | % GVW: 48.0 |

(% GVW = Axle GVW divided by Vehicle GVW)

Fully Loaded Weight = Total Front Plus Total Rear (kg): 1370.3

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

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

<table>
<thead>
<tr>
<th>RF</th>
<th>LF</th>
<th>RR</th>
<th>LR</th>
</tr>
</thead>
<tbody>
<tr>
<td>673</td>
<td>668</td>
<td>676</td>
<td>675</td>
</tr>
</tbody>
</table>

17. Drain the fuel system

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

Fuel tank capacity x .94 = 50.0 liters (13.2 gallons) x .94 = 47.0 liters (12.4 gallons)

Amount added 46.7 liters (12.3 gallons) 93.4%

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)

\[ 1369.9 \text{ kg} = 1168.9 \text{ kg} + 45.0 \text{ kg} + 156.0 \text{ kg} \]

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

Max. Test Weight = Calculated Test Weight – 4.5 kg = 1365.4 kg
Min. Test Weight = Calculated Test Weight – 9 kg = 1360.9kg

21. Remove the RCLW from the cargo area.

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

23. Vehicle Components Removed For Weight Reduction:
Rear seat bottom, spare tire, trunk interior, RH 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: 27.2 kg in trunk

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

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

<table>
<thead>
<tr>
<th>Right Front (kg):</th>
<th>382.4</th>
<th>Right Rear (kg):</th>
<th>289.4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Front (kg):</td>
<td>410.5</td>
<td>Left Rear (kg):</td>
<td>281.2</td>
</tr>
<tr>
<td>Total Front (kg):</td>
<td>792.9</td>
<td>Total Rear (kg):</td>
<td>570.6</td>
</tr>
<tr>
<td>% Total Weight:</td>
<td>58.2</td>
<td>% Total Weight:</td>
<td>41.8</td>
</tr>
<tr>
<td>% GVW</td>
<td>52.6</td>
<td>% GVW:</td>
<td>48.0</td>
</tr>
</tbody>
</table>

(% GVW = Axle GVW divided by Vehicle GVW)

TOTAL FRONT PLUS TOTAL REAR (kg): 1363.5
28. Is the test weight between the Max. Weight and the Min. Weight (See 20.2)?
   Yes
   No, explain why not.

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

   RF:  677  LF:  670  RR:  678  LR:  678

30. Summary of test attitude
   30.1 AS DELIVERED:

   RF:  683  LF:  682  RR:  711  LR:  707

   AS TESTED:

   RF:  677  LF:  670  RR:  678  LR:  678

   FULLY LOADED:

   RF:  673  LF:  668  RR:  676  LR:  675

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

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date:  03/23/05
### DATA SHEET 31

**VEHICLE ACCELEROMETER LOCATION AND MEASUREMENT**

<table>
<thead>
<tr>
<th>Test Vehicle:</th>
<th>2005 Toyota Corolla</th>
<th>NHTSA No.:</th>
<th>C55101</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
<td>Test Date:</td>
<td>3/23/05</td>
</tr>
<tr>
<td>Test Technician:</td>
<td>Nick Kosinski</td>
<td>NHTSA No.:</td>
<td></td>
</tr>
</tbody>
</table>

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

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

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

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

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

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

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

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

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

### REMARKS:

I certify that I have read and performed each instruction.

Signature: Nick Kosinski                               Date: 03/23/05
Dimensions Corresponding To The Letters “A” Through “K” (Excluding “I”) Are Recorded In The Table On The Following Page. Accelerometers Corresponding To The Numbers 1 Through 8 Are Specified On The Preceding Page.
## DATA SHEET 31
### VEHICLE ACCELEROMETER LOCATION AND MEASUREMENTS

<table>
<thead>
<tr>
<th>DIMENSION</th>
<th>LENGTH (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PRETEST VALUES</strong></td>
<td></td>
</tr>
<tr>
<td>A (LH Rear Seat Xmbr)</td>
<td>354</td>
</tr>
<tr>
<td>B (RH Rear Seat Xmbr)</td>
<td>354</td>
</tr>
<tr>
<td>C (Engine Top)</td>
<td>3636</td>
</tr>
<tr>
<td>D (Engine Bottom)</td>
<td>3770</td>
</tr>
<tr>
<td>E (Caliper)</td>
<td>Right Side 3706</td>
</tr>
<tr>
<td>F (Left Caliper)</td>
<td>634</td>
</tr>
<tr>
<td>G (IP)</td>
<td>3018</td>
</tr>
<tr>
<td>H (Seat)</td>
<td>1836</td>
</tr>
<tr>
<td>J (Right Caliper)</td>
<td>644</td>
</tr>
<tr>
<td>K (Trunk)</td>
<td>960</td>
</tr>
<tr>
<td><strong>POST TEST VALUES</strong></td>
<td></td>
</tr>
<tr>
<td>A (LH Rear Seat Xmbr)</td>
<td>354</td>
</tr>
<tr>
<td>B (RH Rear Seat Xmbr)</td>
<td>354</td>
</tr>
<tr>
<td>C (Engine Top)</td>
<td>3558</td>
</tr>
<tr>
<td>D (Engine Bottom)</td>
<td>3750</td>
</tr>
<tr>
<td>E (Caliper)</td>
<td>Right Side 3687</td>
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<tr>
<td>F (Left Caliper)</td>
<td>613</td>
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<tr>
<td>G (IP)</td>
<td>3028</td>
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<tr>
<td>H (Seat)</td>
<td>1830</td>
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<tr>
<td>J (Right Caliper)</td>
<td>629</td>
</tr>
<tr>
<td>K (Trunk)</td>
<td>955</td>
</tr>
</tbody>
</table>
DATA SHEET 32
PHOTOGRAPHIC TARGETS

Test Vehicle: 2005 Toyota Corolla
Test Program: FMVSS 208 Compliance
Test Technician: Nick Kosinski

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

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

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

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

2. Barrier Targeting

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

2.2 Targets D1 and D2 are on a rectangular panel.

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

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

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

3. FMVSS 208 Dummy Targeting Requirements

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

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

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

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

4. FMVSS 204 Targeting Requirements

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

Yes, continue with this form.

No, this form is complete.

4.2 Resection panel (Figure 28C)

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

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

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

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

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

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

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 03/23/05
REFERENCE PHOTO TARGETS

CONCRETE BARRIER

915 mm

100 mm 100 mm

A1

B

C1

C2

610 mm

610 mm

COVERED PHOTO PIT

LEFT SIDE VIEW

MONORAIL
RESECTION PANEL TARGETING ALIGNMENT

RESECTION CONTROL POINTS PANEL

STEERING COLUMN TARGET B

A1  A2

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

A1

B

C1  C2

LEFT SIDE VIEW

CAR TOP TARGETS A1 & A2

STEERING WHEEL

REAR VIEW
PRE-RUN STEERING COLUMN HIGH SPEED CAMERA VIEW

LEFT SIDE VIEW

914 mm
## DATA SHEET 33
### CAMERA LOCATIONS

**Test Vehicle:** 2005 Toyota Corolla  
**NHTSA No.:** C55101  
**Test Program:** FMVSS 208 Compliance  
**Test Date:** 3/23/05  
**Time:** 11:23 am

<table>
<thead>
<tr>
<th>CAMERA NO.</th>
<th>VIEW</th>
<th>CAMERA POSITIONS (mm)*</th>
<th>LENS (mm)</th>
<th>SPEED (fps)</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Real Time Left Side View</td>
<td>13</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Left Side View (Barrier face to front seat backs)</td>
<td>905 -5250 1450 25 1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Left Side View (Driver)</td>
<td>1705 -8420 1325 50 1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Left Side View (B-post aimed toward center of steering wheel)</td>
<td>6665 -5055 2270 50 1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Left Side View (Steering Column)</td>
<td>2225 -5765 1555 19 1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Left Side View (Steering Column)</td>
<td>2190 -5710 1040 19 1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Right Side View (Overall)</td>
<td>2195 6735 1425 19 1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Right Side View (Passenger)</td>
<td>1525 8025 1425 50 1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Right Side View (Angle)</td>
<td>6285 5195 2235 50 1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Right Side View (Front door)</td>
<td>975 5215 1345 24 1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Front View Windshield</td>
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</tr>
<tr>
<td>12</td>
<td>Front View Driver</td>
<td>-25 -290 2055 24 1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Front View Passenger</td>
<td>-20 585 2110 24 1000</td>
<td></td>
<td></td>
</tr>
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<td>14</td>
<td>Overhead Barrier Impact View</td>
<td>670 0 5050 19 1000</td>
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<td></td>
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<tr>
<td>15</td>
<td>Pit Camera Engine View</td>
<td>1020 0 -3150 24 1000</td>
<td></td>
<td></td>
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<tr>
<td>16</td>
<td>Pit Camera Fuel Tank View</td>
<td>2950 0 -3150 24 1000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

CONCRETE PAD

CONCRETE BARRIER

COVERED PHOTO PIT

TOW ROAD

MONORAIL

TOP VIEW

REAL TIME CAMERA

1  2  3  4  5  6

11

12

13

14

15

16

LEFT SIDE VIEW

CONCRETE BARRIER

COVERED PHOTO PIT
**DATA SHEET 34**

**APPENDIX F**

**DUMMY POSITIONING PROCEDURES**

**FOR DRIVER TEST DUMMY CONFORMING TO SUBPART E OF PART 572**

<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>5&lt;sup&gt;th&lt;/sup&gt; Female</td>
</tr>
<tr>
<td>Passenger Dummy:</td>
<td>5&lt;sup&gt;th&lt;/sup&gt; Female</td>
</tr>
</tbody>
</table>

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. (S20.1.8.2)
   N/A – No additional support adjustment

3. If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S20.1.9.3)
   N/A – No independent fore-aft seat cushion adjustment

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

5. The seat back angle, if adjustable, is set at the manufacturer’s nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S4.5.4.1 (b) and S8.1.3)
   N/A – No seat back angle adjustment
   Manufacturer’s design seat back angle: 88.3° on HRP
   Tested seat back angle: 87.7° on HRP

6. If adjustable, set the head restraint at the full up and full forward position. Any adjustment of the head restraint shall be used to position it full forward. For example, if it rotates, rotate it such that the head restraint extends as far forward as possible. (S8.1.3)
   N/A – No head restraint adjustment

7. Place any adjustable seat belt anchorages at the vehicle manufacturer’s nominal design position for a 50th percentile adult male occupant (S8.1.3)
   N/A – No adjustable upper seat belt anchorage
   Manufacturer’s specified anchorage position: 2<sup>nd</sup> Down
   Tested anchorage position: 2<sup>nd</sup> Down (Unbelted Test)

8. Place the adjustable accelerator pedal in the full forward position.
   N/A – The accelerator pedal is not adjustable.

---

Test Vehicle: 2005 Toyota Corolla
Test Program: FMVSS 208 Compliance
Test Technician: Eric Peschman
NHTSA No.: C55101
Test Date: 3/23/05

Test Vehicle:
2005 Toyota Corolla

Test Program:
FMVSS 208 Compliance

Test Technician:
Eric Peschman

NHTSA No.:
C55101

Test Date:
3/23/05
9. Set the steering wheel hub at the geometric center of the full range of driving positions including any telescoping positions as determined in data sheet 14.

10. Place the dummy in the seat such that the midsagittal plane is coincident with the longitudinal seat cushion markings as determined in item 1.18 of Data Sheet 14 and the upper torso rests against the seat back. (S10.4.1.1 & S10.4.1.2)

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

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

- 0.040 horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
- 0.280 vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
- 24.9° pelvic angle (20° to 25°) (S10.4.2.2)

13. Is the head level within ± 0.5°? (S10.1)
   - Yes, go to 14
   - No, go to 13.1

   13.1 Adjust the position of the H-point. (S10.1)

   13.2 Is the head level within ± 0.5°? (S10.1)
      - Yes, record the following, then go to 15.  
      - No, go to 13.3
      - horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
      - vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
      - pelvic angle (20° to 25°) (S10.4.2.2)

   13.3 Adjust the pelvic angle. (S10.1)

   13.4 Is the head level within ± 0.5°? (S10.1)
      - Yes, record the following, then go to 14.  
      - No, go to 13.5
      - horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
      - vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
      - pelvic angle (20° to 25°) (S10.4.2.2)
13.5 Adjust the neck bracket of the dummy the minimum amount necessary from the non-adjusted “0” setting until the head is level within \( \pm 0.5^\circ \). (S10.1) Record the following, then go to 14:

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

14. Set the distance between the outboard knee clevis flange surfaces at 10.6 inches. 10.6” measured distance (10.6 inches) (S10.5)

X 15. Can the right foot be placed on the accelerator?
X Yes, go to 15.1 and skip 15.2
_ No, go to 15.2

X 15.1 To the extent practicable keep the right thigh and the leg in a vertical plane (S10.5) while resting the foot on the undepressed accelerator pedal with the rearmost point of the heel on the floor pan in the plane of the pedal. (S10.6.1.1)

_ 15.2 Initially set the foot perpendicular to the leg and then place it as far forward as possible in the direction of the pedal centerline with the rearmost point of the heel resting on the floor pan. (S10.6.1.1)

_ 15.2.1 Move the adjustable pedal to its most rearward position or until the right foot is flat on the pedal, whichever occurs first. (S10.6.1.1)
_ N/A – the accelerator pedal is not adjustable

X 16. Does the vehicle have a foot rest?
X Yes, go to 16.1
_ No, go to 16.2

X 16.1 With the left thigh and leg in a vertical plane, place the foot on the foot rest with the heel resting on the floor pan. (S10.6.1.2)

X 16.1.1 Is the left foot elevated above the right foot?
_ Yes, go to 16.1.2 and position the foot off the foot rest
X No, go to 17

_ 16.1.2 Check the ONLY one of the following that applies

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

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

__N/A – the foot does not reach the toeboard, go to 16.1.3

__16.1.3 Check the ONLY one of the following that applies

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

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

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

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

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

__18.1 Fasten the seat belt around the dummy.

__18.2 Remove all slack from the lap belt portion. (S10.9)

__18.3 Pull the upper torso webbing out of the retractor and allow it to retract; repeat this four times. (S10.9)

__18.4 Apply a 2 to 4 pound tension load to the lap belt. (S10.9)
   _____pound load applied

__18.5 Is the belt system equipped with a tension-relieving device?
   __Yes, continue
   __No, go to 19
18.6 Introduce the maximum amount of slack into the upper torso belt that is recommended by the vehicle manufacturer in the vehicle owner’s manual. (S10.9).

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

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

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

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

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature] Date: 03/23/05
APPENDIX F
DUMMY POSITIONING PROCEDURES FOR PASSENGER TEST DUMMY CONFORMING
TO SUBPART E OF PART 572

Test Vehicle: 2005 Toyota Corolla  NHTSA No.: C55101
Test Program: FMVSS 208 Compliance  Test Date: 3/23/05
Test Technician: Wayne Dahlke

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

X 1. The seat is a bench seat for which the adjustments have already been made for the
driver and there are no independent adjustments that can be made for the passenger.
Go to 7.
X N/A- the passenger seat adjusts independently of the driver seat.

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

X 3. Position any adjustable parts of the seat that provide additional support so that they are
in the lowest or most open adjustment position. (S20.1.8.2)
X N/A – No additional support adjustment

X 4. If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment
to the full rearward position. (S20.1.9.3)
X N/A – No independent fore-aft seat cushion adjustment

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

X 6. The seat back angle, if adjustable, is set at the manufacturer’s nominal design riding
position for a 50th percentile adult male in the manner specified by the manufacturer.
(S4.5.4.1 (b) and S8.1.3)
N/A – No seat back angle adjustment

Manufacturer’s design seat back angle 89.0° on HRP
Tested seat back angle 89.2° on HRP

X 7. If adjustable, set the head restraint at the full up and full forward position. Any
adjustment of the head restraint shall be used to position it full forward. For example, if it
rotates, rotate it such that the head restraint extends as far forward as possible. (S8.1.3)
N/A – No head restraint adjustment
8. Place any adjustable seat belt anchorages at the vehicle manufacturer’s nominal design position for a 50th percentile adult male occupant (S8.1.3)
   - N/A – No adjustable upper seat belt anchorage
   - Manufacturer’s specified anchorage position. 2nd Down
   - Tested anchorage position 2nd Down (Unbelted Test)
   - N/A - the seat does not have a fore-aft adjustment

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

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

11. Position the H-point of the dummy within 0.5 inch of the vertical dimension and 0.5 inch of the horizontal dimension of a point 0.25 inch below the H-point determined by using the equipment and procedures specified in SAE J826 (APR 1980). (S10.4.2.1) Then measure the pelvic angle with respect to the horizontal using the pelvic angle gage.

   Adjust the dummy position until these three measurements are within the specifications. (S10.4.2.1 and S10.4.2.2)
   - .080 horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
   - .565 vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
   - 21.5° pelvic angle (20° to 25°)

12. Is the head level within ± 0.5°? (S10.1)
   - Yes, go to 13
   - No, go to 12.1

   12.1 Adjust the position of the H-point. (S10.1 and S10.4.2.1)

   12.2 Is the head level within ± 0.5°? (S10.1)
   - Yes, record the following, then go to 13. No, go to 12.3
   - horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
   - vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
   - pelvic angle (20° to 25°) (S10.4.2.2)

   12.3 Adjust the pelvic angle. (S10.1)

   12.4 Is the head level within ± 0.5°? (S10.1)
   - Yes, record the following, then go to 13. No, go to 12.5
   - horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
   - vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
   - pelvic angle (20° to 25°) (S10.4.2.2)
12.5 Adjust the neck bracket of the dummy the minimum amount necessary from the non-adjusted "0" setting until the head is level within ± 0.5°. (S10.1)

Record the following, then go to 13

- **horizontal** inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
- **vertical** inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
- pelvic angle (20° to 25°) (S10.4.2.2)

X 13. Set the distance between the outboard knee clevis flange surfaces at 10.6 inches. 10.6" measured distance (10.6 inches) (S10.5)

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

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

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

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

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

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

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

- Yes, continue
  
  X No, go to 17

- 16.1 Fasten the seat belt around the dummy.

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

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

- 16.4 Apply a 2 to 4 pound tension load to the lap belt. (S10.9)
  
  **pound load applied**
16.5 Is the belt system equipped with a tension relieving device?
   Yes, continue
   No, go to 17

16.6 Introduce the maximum amount of slack into the upper torso belt that is recommended by
the vehicle manufacturer in the vehicle owner's manual. (S10.9). Go to 17.

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

18. Place the left hand palm in contact with the outside of the left thigh and the little finger in
contact with the seat cushion. (S10.3.2)

19. Place the right hand palm in contact with the outside of the right thigh and the little finger
in contact with the seat cushion. (S10.3.2)

REMARKS:

I certify that I have read and performed each instruction.

Signature: ____________________  Date: 03/23/05
DATA SHEET 35
DUMMY MEASUREMENTS

Test Vehicle: 2005 Toyota Corolla
Test Program: FMVSS 208 Compliance
Test Technician: Eric Peschman

NHTSA No.: C55101
Test Date: 3/23/05

DUMMY MEASUREMENTS FOR FRONT SEAT OCCUPANTS

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

Test Vehicle: 2005 Toyota Corolla
Test Program: FMVSS 208 Compliance
Test Technician: Eric Peschman

NHTSA No.: C55101
Test Date: 3/23/05
<table>
<thead>
<tr>
<th>Code</th>
<th>Measurement Description</th>
<th>Driver SN 401</th>
<th>Passenger SN 403</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Length (mm)</td>
<td>Angle (°)</td>
</tr>
<tr>
<td>WA</td>
<td>Windshield Angle</td>
<td>27.1</td>
<td></td>
</tr>
<tr>
<td>SWA</td>
<td>Steering Wheel Angle</td>
<td>62.4</td>
<td></td>
</tr>
<tr>
<td>SCA</td>
<td>Steering Column Angle</td>
<td>28.3</td>
<td></td>
</tr>
<tr>
<td>SA</td>
<td>Seat Back Angle (On Headrest)</td>
<td>2.3</td>
<td>0.8</td>
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<tr>
<td>HZ</td>
<td>Head to Roof (Z)</td>
<td>198</td>
<td>161</td>
</tr>
<tr>
<td>HH</td>
<td>Head to Header</td>
<td>348</td>
<td>21.0</td>
</tr>
<tr>
<td>HW</td>
<td>Head to Windshield</td>
<td>624</td>
<td>0.0</td>
</tr>
<tr>
<td>HR</td>
<td>Head to Side Header (Y)</td>
<td>198</td>
<td>185</td>
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<tr>
<td>NR</td>
<td>Nose to Rim</td>
<td>447</td>
<td>12.5</td>
</tr>
<tr>
<td>CD</td>
<td>Chest to Dash</td>
<td>541</td>
<td></td>
</tr>
<tr>
<td>CS</td>
<td>Chest to Steering Hub</td>
<td>353</td>
<td>10.1</td>
</tr>
<tr>
<td>RA</td>
<td>Rim to Abdomen</td>
<td>217</td>
<td>0.0</td>
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<tr>
<td>KDL</td>
<td>Left Knee to Dash</td>
<td>139</td>
<td>23.3</td>
</tr>
<tr>
<td>KDR</td>
<td>Right Knee to Dash</td>
<td>128</td>
<td></td>
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<tr>
<td>PA</td>
<td>Pelvic Angle</td>
<td>24.9</td>
<td></td>
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<tr>
<td>TA</td>
<td>Tibia Angle</td>
<td>58.4</td>
<td></td>
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<tr>
<td>KK</td>
<td>Knee to Knee (Y)</td>
<td>308</td>
<td></td>
</tr>
<tr>
<td>SK</td>
<td>Striker to Knee</td>
<td>584</td>
<td>99.5</td>
</tr>
<tr>
<td>ST</td>
<td>Striker to Head</td>
<td>420</td>
<td>10.7</td>
</tr>
<tr>
<td>SH</td>
<td>Striker to H-Point</td>
<td>308</td>
<td>136.8</td>
</tr>
<tr>
<td>SHY</td>
<td>Striker to H-Point (Y)</td>
<td>242</td>
<td></td>
</tr>
<tr>
<td>HS</td>
<td>Head to Side Window</td>
<td>294</td>
<td></td>
</tr>
<tr>
<td>HD</td>
<td>H-Point to Door (Y)</td>
<td>144</td>
<td></td>
</tr>
<tr>
<td>AD</td>
<td>Arm to Door (Y)</td>
<td>101</td>
<td></td>
</tr>
<tr>
<td>AA</td>
<td>Ankle to Ankle</td>
<td>316</td>
<td></td>
</tr>
</tbody>
</table>
SEAT BELT POSITIONING DATA

FRONT VIEW OF DUMMY

SEAT BELT POSITIONING MEASUREMENTS

<table>
<thead>
<tr>
<th>Measurement Description</th>
<th>Units</th>
<th>Driver</th>
<th>Passenger</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBU - Top surface of reference to belt upper edge</td>
<td>mm</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>PBL - To surface of reference to belt lower edge</td>
<td>mm</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
# DATA SHEET 36
## CRASH TEST

**Test Vehicle:** 2005 Toyota Corolla  
**NHTSA No.:** C55101  
**Test Program:** FMVSS 208 Compliance  
**Test Technician:** Eric Peschman  
**Test Date:** 3/23/05

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

1. Vehicle underbody painted
2. The speed measuring devices are in place and functioning.
3. The speed measuring devices are _1.0_ m from the barrier (spec. 1.5m) and _30_ cm from the barrier (spec. is 30 cm)
4. Convertible top is in the closed position.
5. Instrumentation and wires are placed so the motion of the dummies during impact is not affected.
6. Tires inflated to pressure on tire placard or if it does not have a tire placard because it is not a passenger car, then inflated to the tire pressure specified in the owner information.

210 kpa front left tire  
210 kpa front right tire  
210 kpa rear left tire  
210 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. Ignition in the ON position.
14. Doors closed and latched but not locked.
15. Posttest zero and shunt calibration checks performed and recorded.
16. Actual test speed _39.9_ kmph.
17. Vehicle rebound from the barrier _164_ cm.
18. Describe whether the doors open after the test and what method is used to open the doors.

| Left Front Door: Door remained closed and latched; Door opened without tools |
| Right Front Door: Door remained closed and latched; Door opened without tools |
| Left Rear Door: Door remained closed and latched; Door opened without tools |
| Right Rear Door: Door remained closed and latched; Door opened without tools |
19. Describe the contact points of the dummy with the interior of the vehicle.

Driver Dummy: Head to Windshield, Air Bag and Headrest; Chest to Air Bag; Knees to Knee Bolster and Steering Column

Passenger Dummy: Head to Air Bag, Header, and Visor; Chest to Air Bag; Knees to Glove Box and Dash

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature] Date: 03/23/05
**DATA SHEET NO. 38**

**ACCIDENT INVESTIGATION DIVISION DATA**

<table>
<thead>
<tr>
<th>Test Vehicle:</th>
<th>2005 Toyota Corolla</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
</tr>
<tr>
<td>Test Technician:</td>
<td>Nick Kosinski</td>
</tr>
<tr>
<td>NHTSA No.:</td>
<td>C55101</td>
</tr>
<tr>
<td>Test Date:</td>
<td>3/23/05</td>
</tr>
</tbody>
</table>

**IMPACT ANGLE:** Zero Degrees  
**BELTED DUMMIES (YES/NO):** No  
**TEST SPEED:**  
- **32 to 40 kmph:** ✔️  
- **0 to 48 kmph:** ⬜  
- **0 to 56 kmph:** ⬜  

**DRIVER DUMMY:**  
- **5th Female:** ⬜  
- **50th Male:** ✔️  

**PASSENGER DUMMY:**  
- **5th Female:** ⬜  
- **50th Male:** ✔️  

**Vehicle Year/Make/Model/Body Style:** 2005 Toyota Corolla Passenger Car  
**VIN:** JTDBR32E952055812  
**Wheelbase:** 2596 mm  
**Build Date:** 07/04  
**Vehicle Size Category:** 2  
**Test Weight:** 1363.5 kg  
**Front Overhang:** 913 mm  
**Overall Width:** 1698 mm  
**Overall Length Center:** 4506 mm  

**Accelerometer Data**  
**Location:** As per measurements on Data Sheet 31  
**Linearity:** >99.9%  
**Integration Algorithm:** Trapezoidal  
**Vehicle Impact Speed:** 39.9 kmph  
**Time of Separation:** 95.8 ms  
**Velocity Change:** 43.8 kmph
CRUSH PROFILE

Collision Deformation Classification: 12FDEW6
Midpoint of Damage: Vehicle Longitudinal Centerline
Damage Region Length (mm): 1523
Impact Mode: Frontal Barrier

<table>
<thead>
<tr>
<th>No.</th>
<th>Measurement Description</th>
<th>Units</th>
<th>Pre-Test</th>
<th>Post-Test</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>Crush zone 1 at left side</td>
<td>mm</td>
<td>4316</td>
<td>4084</td>
<td>232</td>
</tr>
<tr>
<td>C2</td>
<td>Crush zone 2 at left side</td>
<td>mm</td>
<td>4432</td>
<td>4091</td>
<td>341</td>
</tr>
<tr>
<td>C3</td>
<td>Crush zone 3 at left side</td>
<td>mm</td>
<td>4487</td>
<td>4068</td>
<td>419</td>
</tr>
<tr>
<td>C4</td>
<td>Crush zone 4 at right side</td>
<td>mm</td>
<td>4487</td>
<td>4048</td>
<td>439</td>
</tr>
<tr>
<td>C5</td>
<td>Crush zone 5 at right side</td>
<td>mm</td>
<td>4432</td>
<td>4082</td>
<td>350</td>
</tr>
<tr>
<td>C6</td>
<td>Crush zone 6 at right side</td>
<td>mm</td>
<td>4315</td>
<td>4087</td>
<td>228</td>
</tr>
</tbody>
</table>

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 03/23/05
DATA SHEET 39

WINDSHIELD MOUNTING (FMVSS 212)

Test Vehicle: 2005 Toyota Corolla
Test Program: FMVSS 208 Compliance
Test Technician: Nick Kosinski

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

1.2 Mark the longitudinal centerline of the windshield
1.3 Measure pre-crash A, B, and C for the left side and record in the chart below.
1.4 Measure pre-crash C, D, and E for the right side and record in the chart below.
1.5 Measure from the edge of the retainer or molding to the edge of the windshield.
   Dimension G (mm): 16 mm

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

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

      * Yes, go to 2.2

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

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

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

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

      * Yes, Fail
      * No, Pass

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

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

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Pre-Crash (mm)</th>
<th>Post-Crash (mm)</th>
<th>Percent Retention (Post-Test + Pre-Crash)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>541</td>
<td>541</td>
<td>100%</td>
</tr>
<tr>
<td>B</td>
<td>532</td>
<td>532</td>
<td>100%</td>
</tr>
<tr>
<td>C</td>
<td>696.5</td>
<td>696.5</td>
<td>100%</td>
</tr>
<tr>
<td>Total</td>
<td>1769.5</td>
<td>1769.5</td>
<td>100%</td>
</tr>
</tbody>
</table>

**Left Side**

<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>D</td>
<td>541</td>
<td>541</td>
<td>100%</td>
</tr>
<tr>
<td>E</td>
<td>532</td>
<td>532</td>
<td>100%</td>
</tr>
<tr>
<td>F</td>
<td>696.5</td>
<td>696.5</td>
<td>100%</td>
</tr>
<tr>
<td>Total</td>
<td>1769.5</td>
<td>1769.5</td>
<td>100%</td>
</tr>
</tbody>
</table>

**Right Side**

Indicate area of mounting failure. NONE

---

## FRONT VIEW OF WINDSHIELD

INDICATE WIDTH OF MOLDING

![Diagram](diagram.png)

**Remarks:**

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 03/23/05
DATA SHEET 40
WINDSHIELD ZONE INTRUSION (FMVSS 219)

Test Vehicle: 2005 Toyota Corolla  
Test Program: FMVSS 208 Compliance  
Test Technician: Nick Kosinski

<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>
</tbody>
</table>
| TEST SPEED: | 32 to 40 kmph  
| | 0 to 48 kmph  
| | 0 to 56 kmph |
| DRIVER DUMMY: | 5th female  
| | 50th Male |
| PASSENGER DUMMY: | 5th female  
| | 50th Male |

X 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))

X 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))

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

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

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

Provide all dimensions necessary to reproduce the protected area.

**FRONT VIEW OF WINDSHIELD**
WINDSHIELD DIMENSIONS

<table>
<thead>
<tr>
<th>Item</th>
<th>Units</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>mm</td>
<td>1082</td>
</tr>
<tr>
<td>B</td>
<td>mm</td>
<td>540</td>
</tr>
<tr>
<td>C</td>
<td>mm</td>
<td>1393</td>
</tr>
<tr>
<td>D</td>
<td>mm</td>
<td>532</td>
</tr>
<tr>
<td>E</td>
<td>mm</td>
<td>512</td>
</tr>
<tr>
<td>F</td>
<td>mm</td>
<td>510</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: 03/23/05
DATA SHEET 41
FUEL SYSTEM INTEGRITY (FMVSS 301)

Test Vehicle: 2005 Toyota Corolla  
Test Program: FMVSS 208 Compliance  
Test Technician: Eric Peschman  
NHTSA No.: C55101  
Test Date: 3/23/05

TYPE OF IMPACT: 25 mph Unbelted Flat Frontal

Stoddard Solvent Spillage Measurements

A. From impact until vehicle motion ceases: 0.0 grams  
(Maximum Allowable = 28 grams)

B. For the 5 minute period after motion ceases: 0.0 grams  
(Maximum Allowable = 142 grams)

C. For the following 25 minutes: 0.0 grams  
(Maximum Allowable = 28 grams/minute)

D. Spillage: NONE

REMARKS: NO SPILLAGE
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: The post test FMVSS 301 rollover was not conducted due to the apparent noncompliance.

<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></td>
<td></td>
<td></td>
</tr>
<tr>
<td>90° to 180°</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>180° to 270°</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>270° to 360°</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
APPENDIX A

CRASH TEST DATA
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<td>Driver Head Y Velocity vs. Time</td>
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<td>Driver Head Z Velocity vs. Time</td>
<td>A-2</td>
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<td>Driver Neck Force X vs. Time</td>
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<td>Driver Neck Force Z vs. Time</td>
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<td>Figure No. 13</td>
<td>Driver Neck Moment Y vs. Time</td>
<td>A-4</td>
</tr>
<tr>
<td>Figure No. 14</td>
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<td>A-4</td>
</tr>
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<td>Driver Neck Moment Resultant vs. Time</td>
<td>A-4</td>
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<tr>
<td>Figure No. 18</td>
<td>Driver Chest Z Acceleration vs. Time</td>
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25MPH FRONTAL UNBELTED
2005 TOYOTA COROLLA (C55101)

Test Date: 03/23/05
Speed: 24.8 mph (39.9 km/h)

- DRIVER HEAD X (G's) vs TIME (ms)
  - Max: 1.4 G's
  - Tmax: 128.9 ms
  - Min: -51.5 G's
  - Tmin: 104.9 ms
  - CFC 1000

- DRIVER HEAD Y (G's) vs TIME (ms)
  - Max: 25.3 G's
  - Tmax: 104.8 ms
  - Min: -1.8 G's
  - Tmin: 24.2 ms
  - CFC 1000

- DRIVER HEAD Z (G's) vs TIME (ms)
  - Max: 28.6 G's
  - Tmax: 104.4 ms
  - Min: -7.2 G's
  - Tmin: 120.2 ms
  - CFC 1000

- DRIVER HEAD Resultant (G's) vs TIME (ms)
  - Max: 63.3 G's
  - Tmax: 104.8 ms
  - Min: 0.0 G's
  - Tmin: 0.0 ms
  - CFC 1000
25MPH FRONTAL UNBELTED
2005 TOYOTA COROLLA (C55101)

Test Date: 03/23/05
Speed: 24.8 mph (39.9 km/h)

DRIVER HEAD X Velocity (kph) vs TIME (ms)
Max: 39.9 kph
Tmax: 0.0 ms
Min: -13.6 kph
Tmin: 230.9 ms
CFC 180

DRIVER HEAD Y Velocity (kph) vs TIME (ms)
Max: 18.7 kph
Tmax: 246.1 ms
Min: -0.0 kph
Tmin: 0.0 ms
CFC 180

DRIVER HEAD Z Velocity (kph) vs TIME (ms)
Max: 19.8 kph
Tmax: 271.1 ms
Min: -1.2 kph
Tmin: 74.4 ms
CFC 180
25MPH FRONTAL UNBELTED
2005 TOYOTA COROLLA (C55101)
Test Date: 03/23/05
Speed: 24.8 mph (39.9 km/h)

DRIVER NECK FX (N) vs TIME (ms)
Max: 944.4 N
Tmax: 96.5 ms
Min: -189.5 N
Tmin: 179.5 ms
CFC 1000

DRIVER NECK FY (N) vs TIME (ms)
Max: 72.3 N
Tmax: 59.6 ms
Min: -571.3 N
Tmin: 113.2 ms
CFC 1000

DRIVER NECK FZ (N) vs TIME (ms)
Max: 433.9 N
Tmax: 136.8 ms
Min: -3039.1 N
Tmin: 108.7 ms
CFC 1000

DRIVER NECK FResultant (N) vs TIME (ms)
Max: 3190.7 N
Tmax: 108.7 ms
Min: 0.5 N
Tmin: 0.0 ms
CFC 1000
25MPH FRONTAL UNBELTED
2005 TOYOTA COROLLA (C55101)

Test Date: 03/23/05
Speed: 24.8 mph (39.9 km/h)

Max: 18.5 Nm
Tmax: 117.5 ms
Min: -3.9 Nm
Tmin: 131.9 ms

Max: 62.4 Nm
Tmax: 97.6 ms
Min: -8.6 Nm
Tmin: 142.2 ms

Max: 9.2 Nm
Tmax: 180.8 ms
Min: -15.7 Nm
Tmin: 106.7 ms

Max: 63.4 Nm
Tmax: 97.6 ms
Min: 0.0 Nm
Tmin: 0.0 ms

CFC 600
Test Date: 03/23/05
Speed: 24.8 mph (39.9 km/h)

**25MPH FRONTAL UNBELTED**
2005 TOYOTA COROLLA (C55101)

### DRIVER CHEST X (G's) vs TIME (ms)
- Max: 2.8 G's
- Tmax: 293.3 ms
- Min: -33.4 G's
- Tmin: 98.2 ms
- CFC 180

### DRIVER CHEST Y (G's) vs TIME (ms)
- Max: 4.0 G's
- Tmax: 107.2 ms
- Min: -1.0 G's
- Tmin: 75.6 ms
- CFC 180

### DRIVER CHEST Z (G's) vs TIME (ms)
- Max: 18.0 G's
- Tmax: 107.9 ms
- Min: -6.9 G's
- Tmin: 66.2 ms
- CFC 180

### DRIVER CHEST Resultant (G's) vs TIME (ms)
- Max: 35.1 G's
- Tmax: 98.4 ms
- Min: 0.1 G's
- Tmin: 4.2 ms
- CFC 180
25MPH FRONTAL UNBELTED
2005 TOYOTA COROLLA (C55101)

Test Date: 03/23/05
Speed: 24.8 mph (39.9 km/h)

**DRIVER CHEST X Velocity (kph) vs TIME (ms)**
- Max: 39.9 kph
- Tmax: 0.0 ms
- Min: -10.8 kph
- Tmin: 145.9 ms
- CFC 180

**DRIVER CHEST Y Velocity (kph) vs TIME (ms)**
- Max: 3.3 kph
- Tmax: 300.0 ms
- Min: -0.2 kph
- Tmin: 61.7 ms
- CFC 180

**DRIVER CHEST Z Velocity (kph) vs TIME (ms)**
- Max: 8.7 kph
- Tmax: 256.0 ms
- Min: -7.0 kph
- Tmin: 84.9 ms
- CFC 180

**DRIVER CHEST DISPLACEMENT (mm) vs TIME (ms)**
- Max: 0.1 mm
- Tmax: 25.7 ms
- Min: -25.8 mm
- Tmin: 111.0 ms
- CFC 600
25MPH FRONTAL UNBELTED
2005 TOYOTA COROLLA (C55101)

Test Date: 03/23/05
Speed: 24.8 mph (39.9 km/h)

PASSENGER HEAD X (G's) vs TIME (ms)
Max: 7.8 G's
Tmax: 127.3 ms
Min: -62.5 G's
Tmin: 94.1 ms
CFC 1000

PASSENGER HEAD Y (G's) vs TIME (ms)
Max: 6.5 G's
Tmax: 125.9 ms
Min: -28.0 G's
Tmin: 93.5 ms
CFC 1000

PASSENGER HEAD Z (G's) vs TIME (ms)
Max: 43.1 G's
Tmax: 92.5 ms
Min: -12.6 G's
Tmin: 104.3 ms
CFC 1000

PASSENGER HEAD Resultant (G's) vs TIME (ms)
Max: 78.6 G's
Tmax: 93.2 ms
Min: 0.0 G's
Tmin: 0.0 ms
CFC 1000
25MPH FRONTAL UNBELTED
2005 TOYOTA COROLLA (C55101)

Test Date: 03/23/05
Speed: 24.8 mph (39.9 km/h)

PASSENGER HEAD X Velocity (kph) vs TIME (ms)
Max: 40.4 kph
Tmax: 59.1 ms
Min: -1.9 kph
Tmin: 172.7 ms
CFC 180

PASSENGER HEAD Y Velocity (kph) vs TIME (ms)
Max: 0.3 kph
Tmax: 63.0 ms
Min: -13.5 kph
Tmin: 113.8 ms
CFC 180

PASSENGER HEAD Z Velocity (kph) vs TIME (ms)
Max: 7.4 kph
Tmax: 120.2 ms
Min: -0.4 kph
Tmin: 64.7 ms
CFC 180
25MPH FRONTAL UNBELTED
2005 TOYOTA COROLLA (C55101)
Test Date: 03/23/05
Speed: 24.8 mph (39.9 km/h)

PASSENGER NECK FX (N) vs TIME (ms)
Max: 1555.5 N
Tmax: 104.1 ms
Min: -117.2 N
Tmin: 289.5 ms
CFC 1000

PASSENGER NECK FY (N) vs TIME (ms)
Max: 557.0 N
Tmax: 99.9 ms
Min: -6.0 N
Tmin: 28.0 ms
CFC 1000

PASSENGER NECK FZ (N) vs TIME (ms)
Max: 279.7 N
Tmax: 64.8 ms
Min: -5367.0 N
Tmin: 96.5 ms
CFC 1000

PASSENGER NECK FResultant (N) vs TIME (ms)
Max: 5542.0 N
Tmax: 96.5 ms
Min: 0.8 N
Tmin: 0.0 ms
CFC 1000
25MPH FRONTAL UNBELTED
2005 TOYOTA COROLLA (C55101)

Test Date: 03/23/05
Speed: 24.8 mph (39.9 km/h)

PASSENGER NECK MX (Nm) vs TIME (ms)
Max: 15.8 Nm
Tmax: 129.8 ms
Min: -17.4 Nm
Tmin: 102.2 ms
CFC 600

PASSENGER NECK MY (Nm) vs TIME (ms)
Max: 150.8 Nm
Tmax: 97.9 ms
Min: -19.6 Nm
Tmin: 139.5 ms
CFC 600

PASSENGER NECK MZ (Nm) vs TIME (ms)
Max: 18.6 Nm
Tmax: 127.5 ms
Min: -1.3 Nm
Tmin: 289.4 ms
CFC 600

PASSENGER NECK MResultant (Nm) vs TIME (ms)
Max: 152.3 Nm
Tmax: 98.0 ms
Min: 0.1 Nm
Tmin: 0.0 ms
CFC 600
25MPH FRONTAL UNBELTED
2005 TOYOTA COROLLA (C55101)

Test Date: 03/23/05
Speed: 24.8 mph (39.9 km/h)

PASSENGER CHEST X (G's) vs TIME (ms)
Max: 1.4 G's
Tmax: 293.4 ms
Min: -20.0 G's
Tmin: 102.7 ms
CFC 180

PASSENGER CHEST Y (G's) vs TIME (ms)
Max: 1.0 G's
Tmax: 158.0 ms
Min: -3.3 G's
Tmin: 110.1 ms
CFC 180

PASSENGER CHEST Z (G's) vs TIME (ms)
Max: 19.4 G's
Tmax: 95.7 ms
Min: -3.9 G's
Tmin: 64.8 ms
CFC 180

PASSENGER CHEST Resultant (G's) vs TIME (ms)
Max: 27.0 G's
Tmax: 95.5 ms
Min: 0.0 G's
Tmin: 0.0 ms
CFC 180
25MPH FRONTAL UNBELTED
2005 TOYOTA COROLLA (C55101)

Test Date: 03/23/05
Speed: 24.8 mph (39.9 km/h)

PASSENGER CHEST X Velocity (kph) vs TIME (ms)
Max: 39.9 kph
Tmax: 15.2 ms
Min: -1.4 kph
Tmin: 209.7 ms
CFC 180

PASSENGER CHEST Y Velocity (kph) vs TIME (ms)
Max: 0.0 kph
Tmax: 0.0 ms
Min: -4.5 kph
Tmin: 246.1 ms
CFC 180

PASSENGER CHEST Z Velocity (kph) vs TIME (ms)
Max: 9.3 kph
Tmax: 300.0 ms
Min: -2.8 kph
Tmin: 81.3 ms
CFC 180

PASSENGER CHEST DISPLACEMENT (mm) vs TIME (ms)
Max: 0.5 mm
Tmax: 59.4 ms
Min: -8.2 mm
Tmin: 94.9 ms
CFC 600
25MPH FRONTAL UNBELTED
2005 TOYOTA COROLLA (C55101)

Test Date: 03/23/05
Speed: 24.8 mph (39.9 km/h)

PASSENGER LEFT FEMUR (N) vs TIME (ms)
Max: 296.3 N
Tmax: 298.0 ms
Min: -2981.3 N
Tmin: 89.3 ms
CFC 600

PASSENGER RIGHT FEMUR (N) vs TIME (ms)
Max: 16.8 N
Tmax: 299.3 ms
Min: -3875.8 N
Tmin: 91.2 ms
CFC 600
25MPH FRONTAL UNBELTED
2005 TOYOTA COROLLA (C55101)

Test Date: 03/23/05
Speed: 24.8 mph (39.9 km/h)

Drv. nij (NTF) () vs TIME (ms)
Max: 0.2
Tmax: 96.9 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600

Drv. nij (NTE) () vs TIME (ms)
Max: 0.1
Tmax: 137.1 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600

Drv. nij (NCF) () vs TIME (ms)
Max: 0.5
Tmax: 108.6 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600

Drv. nij (NCE) () vs TIME (ms)
Max: 0.0
Tmax: 54.8 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600
25MPH FRONTAL UNBELTED
2005 TOYOTA COROLLA (C55101)

Test Date: 03/23/05
Speed: 24.8 mph (39.9 km/h)

Pass. nij (NTF) () vs TIME (ms)
Max: 0.0
Tmax: 66.0 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600

Pass. nij (NTE) () vs TIME (ms)
Max: 0.0
Tmax: 64.7 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600

Pass. nij (NCF) () vs TIME (ms)
Max: 1.3
Tmax: 96.9 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600

Pass. nij (NCE) () vs TIME (ms)
Max: 0.3
Tmax: 163.5 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600
25MPH FRONTAL UNBELTED
2005 TOYOTA COROLLA (C55101)

Test Date: 03/23/05
Speed: 24.8 mph (39.9 km/h)

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

Max: 45.7 Nm
Tmax: 97.6 ms
Min: -6.9 Nm
Tmin: 142.0 ms

CFC 600

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

Max: 126.2 Nm
Tmax: 97.6 ms
Min: -25.9 Nm
Tmin: 138.8 ms

CFC 600
25MPH FRONTAL UNBELTED
2005 TOYOTA COROLLA (C55101)

Test Date: 03/23/05
Speed: 24.8 mph (39.9 km/h)

LEFT REAR SEAT CROSSMEMBER X (G's) vs TIME (ms)
- Max: 7.2 G's
- Tmax: 13.2 ms
- Min: -23.7 G's
- Tmin: 54.6 ms
- CFC 60

LEFT REAR SEAT CROSSMEMBER X Velocity (kph) vs TIME (ms)
- Max: 39.9 kph
- Tmax: 2.9 ms
- Min: -2.6 kph
- Tmin: 94.4 ms
- CFC 180

RIGHT REAR SEAT CROSSMEMBER X (G's) vs TIME (ms)
- Max: 6.0 G's
- Tmax: 12.8 ms
- Min: -23.1 G's
- Tmin: 53.3 ms
- CFC 60

RIGHT REAR SEAT CROSSMEMBER X Velocity (kph) vs TIME (ms)
- Max: 39.9 kph
- Tmax: 2.9 ms
- Min: -5.1 kph
- Tmin: 97.2 ms
- CFC 180
25MPH FRONTAL UNBELTED
2005 TOYOTA COROLLA (C55101)

Test Date: 03/23/05
Speed: 24.8 mph (39.9 km/h)

TOP OF ENGINE X (G's) vs TIME (ms)
Max: 26.4 G's
Tmax: 65.6 ms
Min: -55.8 G's
Tmin: 43.7 ms
CFC 60

TOP OF ENGINE X Velocity (kph) vs TIME (ms)
Max: 39.9 kph
Tmax: 0.0 ms
Min: -0.3 kph
Tmin: 174.0 ms
CFC 180

BOTTOM OF ENGINE X (G's) vs TIME (ms)
Max: 29.9 G's
Tmax: 60.5 ms
Min: -53.5 G's
Tmin: 44.7 ms
CFC 60

BOTTOM OF ENGINE X Velocity (kph) vs TIME (ms)
Max: 39.9 kph
Tmax: 0.0 ms
Min: -2.5 kph
Tmin: 98.5 ms
CFC 180
25MPH FRONTAL UNBELTED
2005 TOYOTA COROLLA (C55101)

Test Date: 03/23/05
Speed: 24.8 mph (39.9 km/h)

LEFT BRAKE CALIPER X (G's) vs TIME (ms)
Max: 7.3 G's
Tmax: 134.9 ms
Min: -40.3 G's
Tmin: 53.7 ms
CFC 60

LEFT BRAKE CALIPER X Velocity (kph) vs TIME (ms)
Max: 40.0 kph
Tmax: 5.8 ms
Min: -2.8 kph
Tmin: 104.6 ms
CFC 180

RIGHT BRAKE CALIPER X (G's) vs TIME (ms)
Max: 4.1 G's
Tmax: 51.9 ms
Min: -37.7 G's
Tmin: 56.7 ms
CFC 60

RIGHT BRAKE CALIPER X Velocity (kph) vs TIME (ms)
Max: 39.9 kph
Tmax: 9.1 ms
Min: -8.5 kph
Tmin: 300.0 ms
CFC 180
No Valid Data After Approximately 100 msec.

INSTRUMENT PANEL X (G's) vs TIME (ms)

Max: 27.5 G's
Tmax: 38.6 ms
Min: -63.0 G's
Tmin: 49.0 ms
CFC 60

INSTRUMENT PANEL X Velocity (kph) vs TIME (ms)

Max: 39.9 kph
Tmax: 0.6 ms
Min: -4.0 kph
Tmin: 95.2 ms
CFC 180

TRUNK Z (G's) vs TIME (ms)

Max: 11.4 G's
Tmax: 20.4 ms
Min: -14.0 G's
Tmin: 16.2 G's
CFC 60

TRUNK Z Velocity (kph) vs TIME (ms)

Max: 1.7 kph
Tmax: 34.6 ms
Min: -1.2 kph
Tmin: 18.4 ms
CFC 180
2005 TOYOTA COROLLA (C55101)

Max: 0.6 kN
Tmax: 30.8 ms
Min: -1.0 kN
Tmin: 22.3 ms
CFC 60

Max: 1.4 kN
Tmax: 11.3 ms
Min: -2.7 kN
Tmin: 15.4 ms
CFC 60

Max: 2.0 kN
Tmax: 18.5 ms
Min: -3.8 kN
Tmin: 14.9 ms
CFC 60

Max: 1.3 kN
Tmax: 4.5 ms
Min: -20.6 kN
Tmin: 23.0 ms
CFC 60
25MPH FRONTAL UNBELTED
2005 TOYOTA COROLLA (C55101)

Test Date: 03/23/05
Speed: 24.8 mph (39.9 km/h)

BARRIER - SUM ROW 5 (kN) vs TIME (ms)
Max: 2.1 kN
Tmax: 4.6 ms
Min: -24.9 kN
Tmin: 72.8 ms
CFC 60

BARRIER - SUM ROW 6 (kN) vs TIME (ms)
Max: 0.4 kN
Tmax: 0.2 ms
Min: -105.2 kN
Tmin: 74.0 ms
CFC 60

BARRIER - SUM ROW 7 (kN) vs TIME (ms)
Max: 1.0 kN
Tmax: 0.0 ms
Min: -131.0 kN
Tmin: 24.0 ms
CFC 60

BARRIER - SUM ROW 8 (kN) vs TIME (ms)
Max: 6.5 kN
Tmax: 19.3 ms
Min: -66.4 kN
Tmin: 43.3 ms
CFC 60
25MPH FRONTAL UNBELTED
2005 TOYOTA COROLLA (C55101)

Speed: 24.8 mph (39.9 km/h)

Test Date: 03/23/05

BARRIER - SUM ROW 9 (kN) vs TIME (ms)

Max: 8.9 kN
Tmax: 19.0 ms
Min: -13.2 kN
Tmin: 13.7 ms
CFC 60

BARRIER - TOTAL FORCE (kN) vs TIME (ms)

Max: 2.1 kN
Tmax: 144.4 ms
Min: -271.6 kN
Tmin: 44.4 ms
CFC 60
THE VEHICLE IMPACTED THE BARRIER 6 mm LOWER THAN THE INITIAL TARGET.
APPENDIX B

LOW RISK TEST DATA
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<td>5th Fem. P2 Driver Nij (NCE) vs. Time</td>
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LOW RISK DEPLOYMENT
2005 TOYOTA COROLLA (C55101) (5TH P1)

Test Date: 01/28/05
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 165ms

**5TH FEM. DRIVER HEAD X (G's) vs TIME (ms)**
- Max: 124.4 G's
- Tmax: 156.4 ms
- Min: -84.2 G's
- Tmin: 93.2 ms
- CFC 1000

**5TH FEM. DRIVER HEAD Y (G's) vs TIME (ms)**
- Max: 43.2 G's
- Tmax: 76.1 ms
- Min: -80.1 G's
- Tmin: 55.3 ms
- CFC 1000

**5TH FEM. DRIVER HEAD Z (G's) vs TIME (ms)**
- Max: 21.6 G's
- Tmax: 145.1 ms
- Min: -24.4 G's
- Tmin: 8.7 ms
- CFC 1000

**5TH FEM. DRIVER HEAD Resultant (G's) vs TIME (ms)**
- Max: 124.7 G's
- Tmax: 156.4 ms
- Min: 0.0 G's
- Tmin: 0.9 ms
- CFC 1000
Injury Values Calculated between 0ms and 165ms

5TH FEM. DRIVER HEAD X Velocity (kph) vs TIME (ms)
- Max: 0.0 kph
- Tmax: 6.8 ms
- Min: -25.8 kph
- Tmin: 75.1 ms
- CFC 180

5TH FEM. DRIVER HEAD Y Velocity (kph) vs TIME (ms)
- Max: 1.9 kph
- Tmax: 165.0 ms
- Min: -0.3 kph
- Tmin: 10.1 ms
- CFC 180

5TH FEM. DRIVER HEAD Z Velocity (kph) vs TIME (ms)
- Max: 37.9 kph
- Tmax: 165.0 ms
- Min: -0.8 kph
- Tmin: 9.9 ms
- CFC 180
LOW RISK DEPLOYMENT
2005 TOYOTA COROLLA (C55101) (5TH P1)
Test Date: 01/28/05
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 165ms

**5TH FEM. DRIVER NECK FX (N) vs TIME (ms)**
- Max: 251.3 N
- Tmax: 8.0 ms
- Min: -490.3 N
- Tmin: 52.0 ms
- CFC 1000

**5TH FEM. DRIVER NECK FY (N) vs TIME (ms)**
- Max: 86.2 N
- Tmax: 9.7 ms
- Min: -122.6 N
- Tmin: 53.6 ms
- CFC 1000

**5TH FEM. DRIVER NECK FZ (N) vs TIME (ms)**
- Max: 1607.3 N
- Tmax: 52.2 ms
- Min: -385.8 N
- Tmin: 161.4 ms
- CFC 1000

**5TH FEM. DRIVER NECK FResultant (N) vs TIME (ms)**
- Max: 1683.9 N
- Tmax: 52.0 ms
- Min: 0.4 N
- Tmin: 4.7 ms
- CFC 1000
Injury Values Calculated between 0ms and 165ms

5TH FEM. DRIVER NECK MX (Nm) vs TIME (ms)
Max: 7.3 Nm
Tmax: 53.5 ms
Min: -1.3 Nm
Tmin: 11.9 ms
CFC 600

5TH FEM. DRIVER NECK MY (Nm) vs TIME (ms)
Max: 5.9 Nm
Tmax: 8.2 ms
Min: -28.1 Nm
Tmin: 52.1 ms
CFC 600

5TH FEM. DRIVER NECK MZ (Nm) vs TIME (ms)
Max: 1.7 Nm
Tmax: 134.4 ms
Min: -5.1 Nm
Tmin: 49.6 ms
CFC 600

Drv. Occipital Condyle Moment (Nm) vs TIME (ms)
Max: 3.8 Nm
Tmax: 22.3 ms
Min: -22.3 Nm
Tmin: 69.3 ms
CFC 600
LOW RISK DEPLOYMENT
2005 TOYOTA COROLLA (C55101) (5TH P1)

Test Date: 01/28/05
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 165ms

5TH FEM. DRIVER CHEST X (G's) vs TIME (ms)
Max: 4.1 G's
Tmax: 165.0 ms
Min: -13.3 G's
Tmin: 49.3 ms
CFC 180

5TH FEM. DRIVER CHEST Y (G's) vs TIME (ms)
Max: 1.2 G's
Tmax: 23.8 ms
Min: -1.2 G's
Tmin: 45.6 ms
CFC 180

5TH FEM. DRIVER CHEST Z (G's) vs TIME (ms)
Max: 7.0 G's
Tmax: 53.5 ms
Min: -7.5 G's
Tmin: 10.0 ms
CFC 180

5TH FEM. DRIVER CHEST Resultant (G's) vs TIME (ms)
Max: 14.1 G's
Tmax: 49.5 ms
Min: 0.0 G's
Tmin: 2.3 ms
CFC 180
Injury Values Calculated between 0ms and 165ms

5TH FEM. DRIVER CHEST X Velocity (kph) vs TIME (ms)
Max: 0.1 kph
Tmax: 10.1 ms
Min: -8.9 kph
Tmin: 63.0 ms
CFC 180

5TH FEM. DRIVER CHEST Y Velocity (kph) vs TIME (ms)
Max: 0.8 kph
Tmax: 165.0 ms
Min: -0.2 kph
Tmin: 52.7 ms
CFC 180

5TH FEM. DRIVER CHEST Z Velocity (kph) vs TIME (ms)
Max: 8.3 kph
Tmax: 165.0 ms
Min: -0.5 kph
Tmin: 11.3 ms
CFC 180

5TH FEM. DRIVER CHEST DISPLACEMENT (mm) vs TIME (ms)
Max: 0.8 mm
Tmax: 22.8 ms
Min: -8.3 mm
Tmin: 54.4 ms
CFC 600
LOW RISK DEPLOYMENT
2005 TOYOTA COROLLA (C55101) (5TH P1)

Test Date: 01/28/05
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 165ms

**5TH FEM. DRIVER LEFT FEMUR (N) vs TIME (ms)**
- Max: 102.3 N
- Tmax: 51.7 ms
- Min: -27.9 N
- Tmin: 29.6 ms
- CFC 600

**5TH FEM. DRIVER RIGHT FEMUR (N) vs TIME (ms)**
- Max: 154.0 N
- Tmax: 51.8 ms
- Min: -35.5 N
- Tmin: 12.2 ms
- CFC 600
Injury Values Calculated between 0ms and 165ms

**FIRE VOLTAGE #1 (Volts) vs TIME (ms)**
- Max: 16.9 Volts
- Tmax: 0.5 ms
- Min: -0.1 Volts
- Tmin: 10.4 ms
- CFC 1000

**FIRE CURRENT #1 (Amps) vs TIME (ms)**
- Max: 4.1 Amps
- Tmax: 2.1 ms
- Min: -0.1 Amps
- Tmin: 10.4 ms
- CFC 1000

**FIRE VOLTAGE #2 (Volts) vs TIME (ms)**
- Max: 16.0 Volts
- Tmax: 40.5 ms
- Min: -0.2 Volts
- Tmin: 39.7 ms
- CFC 1000

**FIRE CURRENT #2 (Amps) vs TIME (ms)**
- Max: 1.9 Amps
- Tmax: 40.1 ms
- Min: -0.2 Amps
- Tmin: 74.9 ms
- CFC 1000
LOW RISK DEPLOYMENT
2005 TOYOTA COROLLA (C55101) (5TH P1)

Test Date: 01/28/05
Speed: 0.0 mph (0.0 km/h)

- **Drv. nij (NTF)** vs TIME SPECIAL CHS (ms):
  - Max: 0.3
  - Tmax: 9.8 ms
  - Min: 0.0
  - Tmin: 0.1 ms
  - CFC 600

- **Drv. nij (NTE)** vs TIME SPECIAL CHS (ms):
  - Max: 0.7
  - Tmax: 52.2 ms
  - Min: 0.0
  - Tmin: 0.1 ms
  - CFC 600

- **Drv. nij (NCF)** vs TIME SPECIAL CHS (ms):
  - Max: 0.0
  - Tmax: 19.8 ms
  - Min: 0.0
  - Tmin: 0.4 ms
  - CFC 600

- **Drv. nij (NCE)** vs TIME SPECIAL CHS (ms):
  - Max: 0.4
  - Tmax: 165.0 ms
  - Min: 0.0
  - Tmin: 0.1 ms
  - CFC 600
5TH FEM. DRIVER HEAD X (G's) vs TIME (ms)

Max: 41.3 G's
Tmax: 85.2 ms
Min: -16.3 G's
Tmin: 51.8 ms
CFC 1000

5TH FEM. DRIVER HEAD Y (G's) vs TIME (ms)

Max: 4.7 G's
Tmax: 12.6 ms
Min: -2.8 G's
Tmin: 13.9 ms
CFC 1000

5TH FEM. DRIVER HEAD Z (G's) vs TIME (ms)

Max: 19.3 G's
Tmax: 12.6 ms
Min: -5.6 G's
Tmin: 11.8 ms
CFC 1000

5TH FEM. DRIVER HEAD Resultant (G's) vs TIME (ms)

Max: 42.1 G's
Tmax: 85.2 ms
Min: 0.0 G's
Tmin: 3.3 ms
CFC 1000
LOW RISK DEPLOYMENT
2005 TOYOTA COROLLA (C55101) (5TH P2)
Test Date: 01/28/05
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 165ms

5TH FEM. DRIVER HEAD X Velocity (kph) vs TIME (ms)
Max: 0.1 kph
Tmax: 10.8 ms
Min: -14.1 kph
Tmin: 74.4 ms
CFC 180

5TH FEM. DRIVER HEAD Y Velocity (kph) vs TIME (ms)
Max: 0.1 kph
Tmax: 13.2 ms
Min: -0.8 kph
Tmin: 156.9 ms
CFC 180

5TH FEM. DRIVER HEAD Z Velocity (kph) vs TIME (ms)
Max: 9.2 kph
Tmax: 89.2 ms
Min: -0.0 kph
Tmin: 11.3 ms
CFC 180
LOW RISK DEPLOYMENT
2005 TOYOTA COROLLA (C55101) (5TH P2)
Test Date: 01/28/05
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 165ms

**5TH FEM. DRIVER NECK FX (N) vs TIME (ms)**
Max: 81.9 N
Tmax: 88.6 ms
Min: -500.6 N
Tmin: 54.5 ms
CFC 1000

**5TH FEM. DRIVER NECK FY (N) vs TIME (ms)**
Max: 53.6 N
Tmax: 48.4 ms
Min: -39.2 N
Tmin: 15.5 ms
CFC 1000

**5TH FEM. DRIVER NECK FZ (N) vs TIME (ms)**
Max: 1061.8 N
Tmax: 49.5 ms
Min: -173.0 N
Tmin: 93.4 ms
CFC 1000

**5TH FEM. DRIVER NECK FResultant (N) vs TIME (ms)**
Max: 1151.2 N
Tmax: 49.8 ms
Min: 0.1 N
Tmin: 0.3 ms
CFC 1000
Injury Values Calculated between 0ms and 165ms

5TH FEM. DRIVER NECK MX (Nm) vs TIME (ms)

- Max: 3.1 Nm
- Tmax: 15.5 ms
- Min: -3.8 Nm
- Tmin: 25.5 ms
- CFC 600

5TH FEM. DRIVER NECK MY (Nm) vs TIME (ms)

- Max: 35.7 Nm
- Tmax: 90.6 ms
- Min: -31.3 Nm
- Tmin: 53.6 ms
- CFC 600

5TH FEM. DRIVER NECK MZ (Nm) vs TIME (ms)

- Max: 2.7 Nm
- Tmax: 49.6 ms
- Min: -2.0 Nm
- Tmin: 76.6 ms
- CFC 600

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

- Max: 34.9 Nm
- Tmax: 90.8 ms
- Min: -22.8 Nm
- Tmin: 53.7 ms
- CFC 600
Injury Values Calculated between 0ms and 165ms

5TH FEM. DRIVER CHEST X (G's) vs TIME (ms)
Max: 8.9 G's
Tmax: 20.3 ms
Min: -25.8 G's
Tmin: 14.3 ms
CFC 180

5TH FEM. DRIVER CHEST Y (G's) vs TIME (ms)
Max: 2.3 G's
Tmax: 13.8 ms
Min: -2.6 G's
Tmin: 15.4 ms
CFC 180

5TH FEM. DRIVER CHEST Z (G's) vs TIME (ms)
Max: 6.2 G's
Tmax: 51.5 ms
Min: -2.1 G's
Tmin: 20.5 ms
CFC 180

5TH FEM. DRIVER CHEST Resultant (G's) vs TIME (ms)
Max: 26.4 G's
Tmax: 14.3 ms
Min: 0.0 G's
Tmin: 4.0 ms
CFC 180
Injury Values Calculated between 0ms and 165ms

5TH FEM. DRIVER CHEST X Velocity (kph) vs TIME (ms)
Max: 0.1 kph
Tmax: 10.3 ms
Min: -8.3 kph
Tmin: 65.9 ms
CFC 180

5TH FEM. DRIVER CHEST Y Velocity (kph) vs TIME (ms)
Max: 0.2 kph
Tmax: 165.0 ms
Min: -0.1 kph
Tmin: 61.1 ms
CFC 180

5TH FEM. DRIVER CHEST Z Velocity (kph) vs TIME (ms)
Max: 4.4 kph
Tmax: 139.0 ms
Min: 0.0 kph
Tmin: 0.1 ms
CFC 180

5TH FEM. DRIVER CHEST DISPLACEMENT (mm) vs TIME (ms)
Max: 3.4 mm
Tmax: 25.4 ms
Min: -13.2 mm
Tmin: 56.1 ms
CFC 600
LOW RISK DEPLOYMENT
2005 TOYOTA COROLLA (C55101) (5TH P2)

Test Date: 01/28/05
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 165ms

**5TH FEM. DRIVER LEFT FEMUR (N) vs TIME (ms)**
- Max: 216.3 N
- Tmax: 49.1 ms
- Min: -124.7 N
- Tmin: 36.7 ms
- CFC 600

**5TH FEM. DRIVER RIGHT FEMUR (N) vs TIME (ms)**
- Max: 232.2 N
- Tmax: 56.0 ms
- Min: -6.6 N
- Tmin: 7.7 ms
- CFC 600
LOW RISK DEPLOYMENT
2005 TOYOTA COROLLA (C55101) (5TH P2)
Test Date: 01/28/05
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 165ms

FIRE VOLTAGE #1 (Volts) vs TIME (ms)
Max: 17.0 Volts
Tmax: 0.5 ms
Min: -0.1 Volts
Tmin: 52.4 ms
CFC 1000

FIRE CURRENT #1 (Amps) vs TIME (ms)
Max: 3.6 Amps
Tmax: 9.0 ms
Min: -0.3 Amps
Tmin: 67.2 ms
CFC 1000

FIRE VOLTAGE #2 (Volts) vs TIME (ms)
Max: 15.8 Volts
Tmax: 40.8 ms
Min: -0.2 Volts
Tmin: 39.8 ms
CFC 1000

FIRE CURRENT #2 (Amps) vs TIME (ms)
Max: 1.9 Amps
Tmax: 40.2 ms
Min: -0.1 Amps
Tmin: 39.8 ms
CFC 1000
APPENDIX C

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MFD. BY: TOYOTA MOTOR CORPORATION 07/04
GVWR 3585LB GAWR FR 1885LB RR 1720LB
THIS VEHICLE CONFORMS TO ALL APPLICABLE
FEDERAL MOTOR VEHICLE SAFETY BUMPER AND
THEFT PREVENTION STANDARDS IN EFFECT ON
THE DATE OF MANUFACTURE SHOWN ABOVE.
JTDBR32E952055812 PASS. CAR

C/TR:040/FB41 MODEL: ZZE130L-AEPNKA
A/TM: -01A/A245E MADE IN JAPAN
NO. 360
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<td>REAR 210kPa,30PSI</td>
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The combined weight of occupants and cargo should never exceed 385 kg or 850 lbs.

Le poids total des occupants et du chargement ne doit jamais être supérieur à 385 kg ou 850 lb.
Post-Test Front View of Test Vehicle
Pre-Test Left Side View of Test Vehicle
Pre-Test Right Side View of Test Vehicle
Post-Test Right Side View of Test Vehicle
Pre-Test Left Front Three-Quarter View of Test Vehicle
Post-Test Left Front Three-Quarter View of Test Vehicle
Pre-Test Right Rear Three-Quarter View of Test Vehicle
Post-Test Right Rear Three-Quarter View of Test Vehicle
Pre-Test Left Rear Three-Quarter View of Test Vehicle
Post-Test Left Rear Three-Quarter View of Test Vehicle
Pre-Test Rear View of Test Vehicle
Post-Test Rear View of Test Vehicle
Post-Test Windshield View
Pre-Test Rear Underbody View
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Pre-Test Driver Dummy Front View (head position)
Post-Test Driver Dummy Front View (head position)
Pre-Test Driver Dummy Seat Position
Post-Test Driver Dummy Seat Position
Post-Test Driver Dummy Feet Position
Post-Test Driver Side Knee Bolster View
Post-Test Driver Dummy Head Contact (visor)
Post-Test Driver Head Contact (headrest)
Post-Test Driver Dummy Airbag Contact
Pre-Test Passenger Dummy Front View (head position)
Post-Test Passenger Dummy Front View (head position)
Pre-Test Passenger Dummy Position Right Side View
Pre-Test Passenger Dummy Position Right Side View (Door Open)
Post-Test Passenger Dummy Position Right Side View (Door Open)
Pre-Test Passenger Dummy Seat Position
POST-TEST

C55101
25 MPH FRONTAL UNBELTED
05032301
MGA RESEARCH CORP.
2005 TOYOTA COROLLA
Pre-Test Passenger Dummy Feet Position
Post-Test Passenger Dummy Feet Position
Post-Test Passenger Side Knee Bolster View
Post-Test Passenger Dummy Head Contact
Post-Test Passenger Dummy Airbag Contact
Post-Test Passenger Dummy Glove Box View 1
Post-Test Passenger Dummy Glove Box View 3
Vehicle Impact
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Driver Geometric Center (2005 Toyota Corolla)
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SUPPRESSION PHOTOGRAPHS
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Evenflo First Choice 204 Fwd Facing Unbelted, Middle Seat Track, Handle Up

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Graco Infant W/ Base Unbelted, Forward Seat Track, Handle Up
Graco Infant W/ Base Unbelted, Middle Seat Track, Handle Down

Graco Infant W/ Base Unbelted, Rearward Seat Track, Handle Down

Graco Infant W/ Base Fwd Facing Unbelted, Forward Seat Track, Handle Up

Graco Infant W/ Base Fwd Facing Unbelted, Middle Seat Track, Handle Up
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12 Month Section C Forward Facing Convertible CRS

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Century Encore Rear Facing With Belt, Forward Seat Track

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3-Year-Old Fwd Facing Britax Roundabout Belted,
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3-Year-Old Fwd Facing Britax Roundabout Belted,
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Unbelted 5th Percentile Female Reactivation,
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3 Year Old Section C Forward Facing Convertible CRS

3-Year-Old Fwd Facing Century Encore Belted, Middle Seat Track

3-Year-Old Fwd Facing Century Encore Belted, Rearward Seat Track

Unbelted 5th Percentile Female Reactivation, Middle Seat Track
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3 Year Old  Section C  Forward Facing Convertible CRS

3-Year-Old Fwd Facing Evenflo Medallion Belted, Middle Seat Track

3-Year-Old Fwd Facing Evenflo Medallion Belted, Rearward Seat Track

Unbelted 5th Percentile Female Reactivation, Rearward Seat Track
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3 Year Old Section D Forward Facing Toddler Belt Positioning Booster Seat

3-Year-Old Cosco High Back Booster Belted, Middle Seat Track

3-Year-Old Cosco High Back Booster Belted, Rearward Seat Track

3-Year-Old Cosco High Back Booster Cinched With Harness, Middle Seat Track

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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6 Year Old Section D Forward Facing Toddler Belt Positioning Booster Seat

6-Year-Old Century Next Step Belted, Forward Seat Track

6-Year-Old Century Next Strap Belted, Middle Seat Track

6-Year-Old Century Next Step Belted, Rearward Seat Track

Unbelted 5th Percentile Female Reactivation, Rearward Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Toyota Corolla (C55101)
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, Rearward Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Toyota Corolla (C55101)
3 Year Old               No CRS

3-Year-Old Unbelted, Middle Seat Track, Position 1

3-Year-Old Unbelted, Middle Seat Track, Position 2

3-Year-Old Unbelted, Middle Seat Track, Position 3

3-Year-Old Unbelted, Middle Seat Track, Position 4
DOT/NHTSA 208 Suppression Test – 2005 Toyota Corolla (C55101)

3 Year Old No CRS

3-Year-Old Unbelted, Middle Seat Track, Position 5

3-Year-Old Unbelted, Middle Seat Track, Position 6

3-Year-Old Unbelted, Middle Seat Track, Position 7
DOT/NHTSA 208 Suppression Test – 2005 Toyota Corolla (C55101)
3 Year Old No CRS

3-Year-Old Unbelted, Rearward Seat Track, Position 1
3-Year-Old Unbelted, Rearward Seat Track, Position 2
3-Year-Old Unbelted, Rearward Seat Track, Position 3
3-Year-Old Unbelted, Rearward Seat Track, Position 4
3 Year Old No CRS

3-Year-Old Unbelted, Rearward Seat Track, Position 5

3-Year-Old Unbelted, Rearward Seat Track, Position 6

3-Year-Old Unbelted, Rearward Seat Track, Position 7

Unbelted 5th Percentile Female Reactivation, Forward Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Toyota Corolla (C55101)

6 Year Old No CRS

6-Year-Old Unbelted, Forward Seat Track, Position 1

6-Year-Old Unbelted, Forward Seat Track, Position 2

6-Year-Old Unbelted, Forward Seat Track, Position 3

6-Year-Old Unbelted, Middle Seat Track, Position 1
DOT/NHTSA 208 Suppression Test – 2005 Toyota Corolla (C55101)

6 Year Old No CRS

6-Year-Old Unbelted, Rearward Seat Track, Position 4, View 2

Unbelted 5th Percentile Female Reactivation, Middle Seat Track
### INSTRUMENTS FOR DRIVER DUMMY NO. 401

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<td>Head Z</td>
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<td>AH5L1</td>
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<td>03/22/05</td>
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<td>Right Femur Load Cell</td>
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### INSTRUMENTS FOR PASSENGER DUMMY NO. 403

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### INSTRUMENTS FOR LOW RISK 5TH FEMALE DUMMY NO. 506 (P1)

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### INSTRUMENTS FOR LOW RISK 5TH FEMALE DUMMY NO. 511 (P2)

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### VEHICLE INSTRUMENTS

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<td>Left Brake Caliper X</td>
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<td>Trunk Z</td>
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APPENDIX G

NOTICE OF TEST FAILURE
LABORATORY NOTICE OF APPARENT TEST FAILURE TO OVSC

FMVSS NO. 208 TEST DATE: March 23, 2005

LABORATORY: MGA Research Corporation

CONTRACT NO.: DTNH22-03-D-11002 DELV. ORDER NO.: #3

LABORATORY PROJECT ENGINEER'S NAME: Jeff Lewandowski

TEST SPECIMEN DESCRIPTION: 2005 Toyota Corolla Passenger Car

VEHICLE NHTSA NO.: C55101 VIN: JTDBR32E952055812

MFR: Toyota Motor Corporation

APPARENT TEST FAILURE DESCRIPTION: The 50th% Passenger Dummy SN403 had a Compression Flexion Neck Injury of 1.3 at a 96.9 ms time and a Neck Compression of 5367N during the 25mph unbelted frontal impact test.

FMVSS REQUIREMENT, PARAGRAPH S: S.5.1.2 / S6.6  Neck Injury (Critical values: Compression = 6160N; Flexion = 310Nm) The Neck Injury value shall not exceed 1.0 at any time during the event. Neck Compression (Critical value: Compression = 4000N) The Neck Injury value shall not exceed 4000N at any time during the event.

NOTIFICATION TO NHTSA (COTR): Charles Case

DATE: 3-24-2005 BY: Jeff Lewandowski

REMARKS: Post-test inspection of the neck load cell calibration and assembly showed no problems. Toyota representatives inspected and photographed the vehicle and dummy post test. On 3-28-05 the test vehicle passenger H-pt information was provided to Toyota representatives. Photos of the vehicle certification and tire placards are attached.
2005 Toyota Corolla Certification Placard

2005 Toyota Corolla Tire Placard
LABORATORY NOTICE OF APPARENT TEST FAILURE TO OVSC

FMVSS NO. 208 TEST DATE: December 9, 2005

LABORATORY: MGA Research Corporation

CONTRACT NO.: DTNH22-03-D-11002 DELV. ORDER NO.: #3

LABORATORY PROJECT ENGINEER'S NAME: Jeff Lewandowski / Audrey Hale

TEST SPECIMEN DESCRIPTION: 2005 Toyota Corolla Passenger Car

VEHICLE NHTSA NO.: C55201 VIN: JTDBR32E952055812

MFR: Toyota Motors Corporation

APPARENT TEST FAILURE DESCRIPTION: TP208-12 Data Sheet 5 3.3.1 The driver and passenger sun visor air bag warning labels are not permanently affixed to the sun visor. The labels are easily peeled off of the visor.

FMVSS REQUIREMENT, PARAGRAPH S: S4.5.1 (b)(3) Each vehicle shall have a label permanently affixed to either side of the sun visor, at the manufacturer’s option, at each front outboard seating position that is equipped with an inflatable restraint.

NOTIFICATION TO NHTSA (COTR): Charles Case

DATE: 12-9-2004 BY: Audrey Hale

REMARKS: See attached photographs of the air bag labels and the certification label.
Driver sun visor air bag warning label

Passenger sun visor air bag warning label
Vehicle certification label