REPORT NUMBER: 208-MGA-2004-013

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

Ford Motor Company
2005 Ford Escape MPV
NHTSA No.: C50200

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

Test Dates: March 16 – September 3, 2004
Final Report Date: October 8, 2004

FINAL REPORT

PREPARED FOR:
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
OFFICE OF ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
MAIL CODE: NVS-220
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WASHINGTON, D.C. 20590
This final test report was prepared for the U.S. Department of Transportation, National Highway Traffic Safety Administration, in response to Contract Number DTNH22-03-D-11002.

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Prepared by: _____________________________ Date: October 8, 2004
Jeff Lewandowski, Project Engineer

Reviewed by: _____________________________ Date: October 8, 2004
David Winkelbauer, Facility Director

FINAL REPORT ACCEPTED BY OVSC:

Accepted By: _____________________________

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

**TEST FAILURES:**

None

**Key Words**

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

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SECTION 1
PURPOSE OF COMPLIANCE TEST

The tests performed are part of a program conducted for the National Highway Traffic Safety Administration (NHTSA) by MGA Research Corporation (MGA) under Contract No. DTNH22-03-D-11002. The purpose of this test was to determine whether the subject vehicle, a 2005 Ford Escape, NHTSA No. C50200, 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.

A 50th percentile dummy was placed in the center rear designated seating position for the crash test. The data from this position will be used for research and development. This seating position does not have crash test performance requirements.
## SECTION 2
### TESTS PERFORMED

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</tr>
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<td></td>
</tr>
<tr>
<td>Belted 50th male dummy driver (0 to 48 kmph) (S5.1.1.(b)(1) or S5.1.1.(a))</td>
<td></td>
</tr>
<tr>
<td>Belted 50th male dummy passenger (0 to 48 kmph) (S5.1.1.(b)(1) or S5.1.1.(a))</td>
<td></td>
</tr>
<tr>
<td>Belted 5th female dummy driver (0 to 48 kmph) (S16.1(a))</td>
<td></td>
</tr>
<tr>
<td>Belted 5th female dummy passenger (0 to 48 kmph) (S16.1(a))</td>
<td></td>
</tr>
<tr>
<td>Belted 50th male dummy driver and passenger (0 to 56 kmph) (S5.1.1.(b)(2))</td>
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</tr>
<tr>
<td>Unbelted 50th male dummy driver and passenger (0 to 48 kmph) (S5.1.2(a)(1))</td>
<td></td>
</tr>
<tr>
<td>Unbelted 50th male dummy driver (32 to 40 kmph) (S5.1.2.(a)(2) or S5.1.2(b))</td>
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</tr>
<tr>
<td>Unbelted 50th male dummy passenger (32 to 40 kmph) (S5.1.2.(a)(2) or S5.1.2(b))</td>
<td></td>
</tr>
</tbody>
</table>

**Test Vehicle:** 2005 Ford Escape  
**NHTSA No.:** C50200  
**Test Program:** FMVSS 208 Compliance  
**Test Dates:** 3/16-9/03/04
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.
### 5th Percentile Female Low Risk Deployments

#### 5th Percentile Female SN 511 Position 1 (Chin On Module) 7-29-04

<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>28</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.9</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>35.7</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>9.5</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>12.0</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>11.4</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2070 N</td>
<td>1293</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>226</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>9</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>6</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>48</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>45</td>
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</tbody>
</table>

Second stage fire time of 100 ms; Injuries calculated on 0 ms to 225 ms

#### 5th Percentile Female SN 505 Position 2 (Chin On Rim) 8-12-04

<table>
<thead>
<tr>
<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Measured Value</th>
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</thead>
<tbody>
<tr>
<td>HIC15</td>
<td>700</td>
<td>7</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.5</td>
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<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>18.1</td>
</tr>
<tr>
<td>Peak Nij (Ntf)</td>
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<td>0.2</td>
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<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>47.4</td>
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<tr>
<td>Peak Nij (Nce)</td>
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<tr>
<td>Time (ms)</td>
<td>NA</td>
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</tr>
<tr>
<td>Peak Nij (Ncf)</td>
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</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>8.2</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2070 N</td>
<td>610</td>
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<td>Neck Compression</td>
<td>2520 N</td>
<td>54</td>
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<tr>
<td>Chest g</td>
<td>60 g</td>
<td>22</td>
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<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>22</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>56</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>60</td>
</tr>
</tbody>
</table>

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

Test Vehicle: 2005 Ford Escape
Test Program: FMVSS 208 Compliance

40 kmph Frontal Crash

Impact Angle: Zero degrees

Belted Dummies: X Yes (Rear Passenger) X No (Driver and Front Passenger)

Speed Range: 0 to 40 kmph X 32 to 40 kmph

Test Speed: 39.9 kmph
Test Weight: 1633.4 kg

Driver Dummy: X 5th female 50th male
Passenger Dummy: X 5th female 50th male
Center Rear Passenger Dummy: 5th female 50th male

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

<table>
<thead>
<tr>
<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Driver</th>
<th>Passenger</th>
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<tbody>
<tr>
<td>HIC15</td>
<td>700</td>
<td>66</td>
<td>53</td>
</tr>
<tr>
<td>Ne</td>
<td>1.0</td>
<td>0.4</td>
<td>0.1</td>
</tr>
<tr>
<td>Ne</td>
<td>1.0</td>
<td>0.3</td>
<td>0.2</td>
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<tr>
<td>Ne</td>
<td>1.0</td>
<td>0.1</td>
<td>0.2</td>
</tr>
<tr>
<td>Ne</td>
<td>1.0</td>
<td>0.1</td>
<td>0.6</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2620 N</td>
<td>959</td>
<td>221</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>446</td>
<td>672</td>
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<tr>
<td>Chest g</td>
<td>60 g</td>
<td>41</td>
<td>27</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>20</td>
<td>3</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>4220</td>
<td>3954</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>4483</td>
<td>3345</td>
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50th Percentile Male Center Rear Passenger Frontal Crash Test

<table>
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<th>Injury Criteria</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Center Rear Passenger</th>
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</thead>
<tbody>
<tr>
<td>HIC15</td>
<td>700</td>
<td>281</td>
</tr>
<tr>
<td>Ne</td>
<td>1.0</td>
<td>0.4</td>
</tr>
<tr>
<td>Ne</td>
<td>1.0</td>
<td>0.5</td>
</tr>
<tr>
<td>Ne</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Ne</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>4170 N</td>
<td>1930</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>4000 N</td>
<td>46</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>38</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>63 mm</td>
<td>29</td>
</tr>
<tr>
<td>Left Femur</td>
<td>10,000 N</td>
<td>483</td>
</tr>
<tr>
<td>Right Femur</td>
<td>10,000 N</td>
<td>64</td>
</tr>
</tbody>
</table>
A blanket and visor were not used in the suppression testing because they did not affect the weight sensing system used on the vehicle.

The Cosco Dream Ride Car Bed was tested for suppression in the middle, and rear seat slide positions. Its orientation was longitudinal with the Newborn dummy’s head placed towards the front of the vehicle closest to the instrument panel. Although longitudinal orientation is not accepted practice it was felt that performance in relation to this CRS should be tested. It would not fit in any lateral orientation due to interference with the shifter and console.

The suppression photo for the Evenflo First Choice 204 with Belt, Forward Seat Track was not available due to a corrupt image file.

The suppression photos for the 6-year-old Century Next Step, Cosco High Back, and Evenflo Right Fit Booster seats with Belt, at Forward, Middle, and Rearward Seat Tracks were not available. These nine photos were lost during assembly of the report.

A 50th percentile dummy (S/N 401) was positioned as a Center Rear Passenger during the 25 mph frontal crash test. One MHD sensor was used to measure dynamic center rear seatback rotation during the crash event.

Instrument Panel X was not valid after 90 msec.
Trunk Z was not valid after 40 msec.

The 50th percentile dummy placed in the center rear designated seating position during the crash test was used for research and development. There was no posttest calibration check on this dummy. The calibration frequency for dummies with this research usage is one calibration for each three exposures.
Test Vehicle: 2005 Ford Escape  
Test Program: FMVSS 208 Compliance  
NHTSA No.: C50200  
Test Dates: 3/16-9/03/04
DATA SHEET 1
COTR VEHICLE WORK ORDER

Test Vehicle: 2005 Ford Escape  
NHTSA No.: C50200  
Test Program: FMVSS 208 Compliance  
Test Dates: 3/16-9/03/04

COTR Signature: Charles R. Case

Test to be performed for this vehicle are checked below:

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

**Section B**

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

**Section C**

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

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

**Section A**

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

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

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

### Section D

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

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

### Section C

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

### Section D

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

### Section B

<table>
<thead>
<tr>
<th>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>
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<td>Te</td>
<td>Full Forward</td>
</tr>
<tr>
<td>Century Assura 4553</td>
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</tr>
<tr>
<td>Century Smart Fit 4543</td>
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</tr>
<tr>
<td>Cosco Arriva 02727</td>
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</tr>
<tr>
<td>Cosco Opus 35 02603</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Evenflo Discovery Adjust Right 212</td>
<td>Full Rearward</td>
<td>Mid Position</td>
<td>Full Forward</td>
</tr>
<tr>
<td>Evenflo First Choice 204</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evenflo On My Way Position Right V 282</td>
<td>Full Rearward</td>
<td>Mid Position</td>
<td>Full Forward</td>
</tr>
<tr>
<td>Graco Infant 8457</td>
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<td></td>
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</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></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Century Encore 4612</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Century STE 1000 4416</td>
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</tr>
<tr>
<td>Cosco Olympian 02803</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Cosco Tourive 02519</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evenflo Horizon V 425</td>
<td></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))
     - Belted 5th female dummy driver (0 to 48 kmph) (S16.1(a))
     - Belted 5th female dummy passenger (0 to 48 kmph) (S16.1(a))
     - Belted 50th male dummy driver and passenger (0 to 56 kmph) (S5.1.2.(a)(2) or S5.1.2(b))
     - 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))
     - Belted 5th female dummy driver (32 to 40 kmph) (S16.1(b))
     - Belted 5th female dummy passenger (32 to 40 kmph) (S16.1(b))
     - Unbelted 5th female dummy driver (32 to 40 kmph) (S16.1(b))
     - Unbelted 5th female dummy passenger (32 to 40 kmph) (S16.1(b))
   - 40% Offset 0° Belted 5th male dummy driver and passenger (0 to 40 kmph) (S18.1) – Test Speed:
     - Sled Test: Unbelted 50th male dummy driver and passenger (S13)
     - FMVSS 204 Indicant Test
     - FMVSS 212 Indicant Test
     - FMVSS 219 Indicant Test
     - FMVSS 301 Frontal Indicant Test
DATA SHEET 2
REPORT OF VEHICLE CONDITION

Test Vehicle: 2005 Ford Escape  NHTSA No.: C50200
Test Program: FMVSS 208 Compliance  Test Dates: 3/16-9/03/04

CONTRACT NO.  DTNH22- 03-D-11002  Date: 3/09/04
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 Ford Escape
MANUFACTURE DATE: 02/04
NHTSA NO. C50200  GVWR: 1896 kg (4180 lbs)
BODY COLOR: Sonic Blue  GAWR (Fr): 1016 kg (2240 lbs)
VIN: 1FMYU02Z45KA10086  GAWR (Rr): 959 kg (2115 lbs)

ODOMETER READINGS: ARRIVAL (miles): 35  DATE: 3/09/04
COMPLETION (miles): 41  DATE: 9/03/04
PURCHASE PRICE: ($) 18,575
DEALER’S NAME: Lyons-Ryan Ford Sales Inc.; 104 Route 173; Antioch, IL 60002

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 busses, 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 Ford Escape  NHTSA NO. C50200

REMARKS:

Equipment that is no longer on the test vehicle as noted on previous page:
Rear bumper, spare tire, jack, rear lift gate, exhaust, side mirrors, tail lights

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: 9/08/2004
APPROVED BY: David Winkelbauer  DATE: 9/08/2004

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

RELEASE OF TEST VEHICLE

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

Date: Time: Odometer:

Lab Rep’s Signature:
Title:
Carrier/Customer Rep:
Date:
DATA SHEET 3
CERTIFICATION LABEL AND TIRE PLACARD INFORMATION

Test Vehicle: 2005 Ford Escape
Test Program: FMVSS 208 Compliance
Test Technician: Clark Subrt
NHTSA No.: C50200
Test Date: 9/03/04

<table>
<thead>
<tr>
<th>Certification Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer: Ford Motor Company</td>
</tr>
<tr>
<td>Date of Manufacture: 02/04</td>
</tr>
<tr>
<td>VIN: 1FMYU02Z45KA10086</td>
</tr>
<tr>
<td>Vehicle Certified As (Pass. Car/MPV/Truck/Bus): MPV</td>
</tr>
<tr>
<td>Front Axle GVWR: 1016 kg (2240 lbs)</td>
</tr>
<tr>
<td>Rear Axle GVWR: 959 kg (2115 lbs)</td>
</tr>
<tr>
<td>Total GVWR: 1896 kg (4180 lbs)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tire Placard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable, vehicle is not a passenger car and does not have a tire placard.</td>
</tr>
<tr>
<td>This is not a passenger car, but all or part of this information is still contained on a vehicle label and is reported here.</td>
</tr>
<tr>
<td>Vehicle Capacity Weight: 440 kg (970 lbs)</td>
</tr>
<tr>
<td>Designated Seating Capacity Front: 2</td>
</tr>
<tr>
<td>Designated Seating Capacity Rear: 3</td>
</tr>
<tr>
<td>Total Designated Seating Capacity: 5</td>
</tr>
<tr>
<td>Recommended Cold Tire Inflation Pressure Front: 220 kpa (32 psi)</td>
</tr>
<tr>
<td>Recommended Cold Tire Inflation Pressure Rear: 220 kpa (32 psi)</td>
</tr>
<tr>
<td>Recommended Tire Size: P225/75R15</td>
</tr>
</tbody>
</table>

Signature: Clark Subrt
Date: 09/03/04
DATA SHEET 4
REAR OUTBOARD SEATING POSITION SEAT BELTS

<table>
<thead>
<tr>
<th>Test Vehicle:</th>
<th>2005 Ford Escape</th>
<th>NHTSA No.:</th>
<th>C50200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
<td>Test Date:</td>
<td>3/22/04</td>
</tr>
<tr>
<td>Test Technician:</td>
<td>Wayne Dahlke</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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

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: NONE

Signature: __________________________
Date: 03/22/04
DATA SHEET 5
AIR BAG LABELS (S4.5.1)

Test Vehicle: 2005 Ford Escape
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke
Test Date: 3/22/04
NHTSA No.: C50200

1. Air bag maintenance label and owner’s manual instructions: (S4.5.1(a))
   1.1 Does the manufacturer recommend periodic maintenance or replacement of the air bag?
      - Yes, go to 1.2
      - X No – go to 2
   1.2 Does the vehicle have a label specifying air bag maintenance or replacement?
      - Yes – Pass
      - No – Fail
   1.3 Does the label contain one of the following?
      - Yes – Pass
      - No – Fail
      Check applicable schedule:
      - Schedule on label specifies month and year (Record date______)
      - Schedule on label 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?
   2. Does the owner’s manual: (S4.5.1(f))
      2.1 Include a description of the vehicle’s air bag system in an easily understandable format?
         - X Yes – Pass
         - No – Fail
      2.2 Include a statement that the vehicle is equipped with an air bag and a lap/shoulder belt at the front outboard seating position?
         - X Yes – Pass
2.3 Include a statement that the air bag is a supplement restraint at the front outboard seating position?

X Yes – Pass

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

X Yes – Pass

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

X Yes – Pass

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

X Yes – Pass

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))

X Yes – (Go to 2.7.1)

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

X Yes – Pass

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

X Yes – Pass

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

X Yes – Pass

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

X Yes – Pass

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

X Yes – Pass

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

X Yes, continue with 2.7.6

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))

![Figure 6a](image1)

![Figure 6b](image2)

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
<table>
<thead>
<tr>
<th></th>
<th>3.1.5 Is the message area at least 30 cm²? (S4.5.1(b)(1)(ii))</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Driver Side: Length______, Width________</td>
</tr>
<tr>
<td></td>
<td>Passenger Side: Length______, Width________</td>
</tr>
<tr>
<td></td>
<td>Actual message area __________ cm²</td>
</tr>
<tr>
<td></td>
<td>Driver Side, Yes – Pass</td>
</tr>
<tr>
<td></td>
<td>Driver Side, No – Fail</td>
</tr>
<tr>
<td></td>
<td>Passenger Side, Yes – Pass</td>
</tr>
<tr>
<td></td>
<td>Passenger Side, No – Fail</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>3.1.6 Is the pictogram black with a red circle and slash on a white background? (S4.5.1(b)(2)(iii))</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Driver Side, Yes – Pass</td>
</tr>
<tr>
<td></td>
<td>Driver Side, No – Fail</td>
</tr>
<tr>
<td></td>
<td>Passenger Side, Yes – Pass</td>
</tr>
<tr>
<td></td>
<td>Passenger Side, No – Fail</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>3.1.7 Is the pictogram at least 30 mm in diameter? (S4.5.1(b)(2)(iii))</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Actual diameter __________ mm</td>
</tr>
<tr>
<td></td>
<td>Driver Side, Yes – Pass</td>
</tr>
<tr>
<td></td>
<td>Driver Side, No – Fail</td>
</tr>
<tr>
<td></td>
<td>Passenger Side, Yes – Pass</td>
</tr>
<tr>
<td></td>
<td>Passenger Side, No – Fail</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th></th>
<th>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))</th>
</tr>
</thead>
</table>
### 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))

<table>
<thead>
<tr>
<th>Side</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver Side</td>
<td>Yes – Pass</td>
</tr>
<tr>
<td>Driver Side</td>
<td>No – Fail</td>
</tr>
<tr>
<td>Passenger Side</td>
<td>Yes – Pass</td>
</tr>
<tr>
<td>Passenger Side</td>
<td>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>Side</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver Side</td>
<td>Yes – Pass</td>
</tr>
<tr>
<td>Driver Side</td>
<td>No – Fail</td>
</tr>
<tr>
<td>Passenger Side</td>
<td>Yes – Pass</td>
</tr>
<tr>
<td>Passenger Side</td>
<td>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>Side</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver Side</td>
<td>Yes – Pass</td>
</tr>
<tr>
<td>Driver Side</td>
<td>No – Fail</td>
</tr>
<tr>
<td>Passenger Side</td>
<td>Yes – Pass</td>
</tr>
<tr>
<td>Passenger Side</td>
<td>No – Fail</td>
</tr>
<tr>
<td>Section</td>
<td>Description</td>
</tr>
<tr>
<td>---------</td>
<td>-------------</td>
</tr>
</tbody>
</table>
| 3.2.5   | Is the message area at least 30 cm²? (S4.5.1(b)(2)(ii))
|         | Driver Side: Length_________, Width_________  
|         | Passenger Side: Length_________, Width_________  
|         | Actual message area _____________ cm²  
|         | Driver Side, Yes – Pass  
|         | Driver Side, No – Fail  
|         | Passenger Side, Yes – Pass  
|         | Passenger Side, No – Fail  

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

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

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

| 3.3.1   | Is the label permanently affixed (including permanent marking on the visor material or molding into the visor material) to either side of the sun visor at each front outboard seating position such that it cannot be removed without destroying or defacing the label or the sun visor? (S4.5.1(b)(3))
|         | Driver Side, Yes – Pass  
|         | Driver Side, No – Fail  
|         | Passenger Side, Yes – Pass  
|         | Passenger Side, No – Fail  

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

|         | X  
|         | X  
|         | X  
|         | X  


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 8.6 cm, Width 3.5 cm
Passenger Side: Length 8.6 cm, Width 3.5 cm
Driver Actual message area 30.1 cm²
Passenger Actual message area 30.1 cm²

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
Driver 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))

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

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

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

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

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

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

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

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

- actual distance

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

- 7 cm actual distance

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

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

- If yes for driver and passenger, go to 5.
- Driver Side, Yes – Pass
- Driver Side, No – Fail
4.2 Is the air bag alert label permanently affixed (including permanent marking on the visor material or molding into the visor material) to the sun visor at each front outboard seating position such that it cannot be removed without destroying or defacing the label or the sun visor? (S4.5.1(c))

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

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

4.5 Is the message area black with yellow text? (S4.5.1(c)(1)}
4.6 Is the message area at least 20 cm²? (S4.5.1(c)(1))

Driver Side: Length________, Width________
Passenger Side: Length________, Width________
Actual message area ________ cm²

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

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

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

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

Driver Side Diameter__________mm
Passenger Side Diameter__________mm

<p>| | | | | | | | | | | | | |</p>
<table>
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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))

X Yes, go to 5.1.1 and skip 5.2
X 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))

X Yes – Pass
X No – Fail

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

X Yes – Pass
X No - Fail

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

X Yes – Pass
X No - Fail

Vehicles without back seats may omit the statement: “The back seat is the safest place for children.” (S4.5.1(e)(2)(iii))
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 11.8 cm, Width 2.7 cm
   Actual message area 31.86 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))
- Length_______, Width_______
- Actual message area _________ cm²
- Yes – Pass
- No - Fail

I certify that I have read and performed each instruction.

Signature: __________________________

Date:  03/22/04
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: 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: ________________

Date: 03/22/04
1. Is the vehicle equipped with an on-off switch that deactivates the air bag installed at the right front outboard seating position?
   - [ ] Yes, go to 2
   - [X] No, this sheet is complete

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

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.
   - [ ] N/A – the seat does not have a fore-aft adjustment.

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

3.9 Using only the controls that change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the middle fore-aft position. (S8.1.2)
   - [ ] N/A – the seat does not have fore-aft adjustment.
Mid position

If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat:

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

N/A – No adjustments

Angle of reference line as tested:

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

N/A – No seat back angle adjustment

Manufacturers design seat back angle:

Tested seat back angle:

3.12 Is the driver seat a bucket seat?

Yes, go to 3.12.1 and skip 3.12.2

No, go to 3.12.2 and skip 3.12.1

3.12.1 Bucket Seats:

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

Record the width of the seat:

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

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

Distance (mm):

Less than 720 mm – Pass

More than 720 mm – Fail

Go to 4

3.12.2 Bench seats (including split bench seats):

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

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

Distance (mm):

Less than 720 mm – Pass

More than 720 mm – Fail

Go to 4

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

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

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

7. Telltale light (S4.5.4.3)
   7.1 Is the light yellow? S4.5.4.3(a))
      [ ] Yes – Pass
      [ ] No – Fail
   7.2 Are the words “PASSENGER AIR BAG OFF” (S4.5.4.3(b)) on the telltale?
      [ ] Yes – Pass, go to 7.3
      [ ] No – go to 7.2.2
      7.2.2 within 25 mm of the telltale?
         [ ] Yes – Pass
         [ ] No – Fail
   7.3 Does the telltale remain illuminated while the air bag is turned off? (S4.5.4.3(c)) (Leave the air bag off for 5 minutes.)
      [ ] Yes – Pass
      [ ] No – Fail
   7.4 Is the telltale illuminated while the air bag is turned on? (S4.5.4.3(d))
      [ ] Yes – Fail
      [ ] No – Pass
   7.5 Is the telltale combined with the air bag readiness indicator? (S4.5.4.3(e))
      [ ] Yes – Fail
      [ ] No – Pass

8. Owner’s Manual
   8.1 Does the owner’s manual contain complete instructions on the operation of the on-off switch? (S4.5.4.4(a))
      [ ] Yes – Pass
      [ ] No – Fail
   8.2 Does the owner’s manual contain a statement that the on-off switch should only be used when a member of one of the following risk groups is occupying the right front passenger seating position? (S4.5.4.4(b))
      Infants: there is no back seat
      the rear seat is too small to accommodate a child restraint
      there is a medical condition that must be monitored constantly
      Children aged 1 to 12: there is no back seat
      space is not always available in the rear seat
      Medical condition: medical risk causes special risk for passenger
      condition: greater risk for harm than with the air bag on
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: 03/22/04
**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 Ford Escape</th>
<th>NHTSA No.:</th>
<th>C50200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
<td>Test Date:</td>
<td>3/23/04</td>
</tr>
<tr>
<td>Test Technician:</td>
<td>Wayne Dahlke</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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

1. N/A – no retractor is at this position

2. N/A – the retractor is an automatic locking retractor ONLY

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

4. 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

5. 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

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

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

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

9. 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

10. 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

11. 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))

   - Yes – Pass
   - No – Fail
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): 65.75 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): 5.4 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): 32.875 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): 15 lb/sec

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 = 0.25 inches

   Yes – Pass
   No – Fail

15. Subtract the measurement in 13 from the measurement in 9. Is the difference 3 inches or more? (S7.1.1.5(c)(8))
9 - 13 = 32.625

   Yes – Pass
   No – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________
Date: 03/23/04
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 Ford Escape  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke  
NHTSA No.: C50200  
Test Date: 03/23/04

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

- N/A – no retractor is at this position
- N/A – the retractor is an automatic locking retractor ONLY
- X 1. Record test fore-aft seat position: Not Adjustable (S7.1.1.5(c)(1)) (Any position is acceptable)
- X 2. Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT have to be attached by the vehicle user to the seat belt webbing, retractor, or any other part of the vehicle. (S7.1.1.5 (a))  
  - X Yes – Pass
  - No – Fail
- X 3. Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT require inverting, twisting or deforming of the belt webbing. (S7.1.1.5 (a))  
  - X Yes – Pass
  - No – Fail
- X 4. Buckle the seat belt. (S7.1.1.5(c)(1))
- X 5. Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2))
- X 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))
- X 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?  
  - X Yes, go to 7.1
  - No, go to 8
  - X 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))  
  - X Yes – Pass
  - No – Fail
- X 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): 61.75 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): 13.9 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): 38.0 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)): 15 lb/sec

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

Yes – Pass
No – Fail

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

9 - 13 = 22.75 inches

Yes – Pass
No – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 03/23/04
**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 Ford Escape  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke  
NHTSA No.: C50200  
Test Date: 3/23/04

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

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

1. N/A – no retractor is at this position  
2. N/A – the retractor is an automatic locking retractor ONLY  
3. Record test fore-aft seat position: Not Adjustable (S7.1.1.5(c)(1)) (Any position is acceptable)

4. 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

5. 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

6. Buckle the seat belt. (S7.1.1.5(c)(1))
7. Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2))
8. Locate a reference point B on the attachment hardware or retractor assembly at the other end of the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))

9. 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

10. 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

11. 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))

---

38
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): 70 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): 13.5 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): 25.5 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)): 15 lbs/sec

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

13 - 12 = 0.75 inches

Yes – Pass

No – Fail

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

9 - 13 = 43.75 inches

Yes – Pass

No – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 03/23/04
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))

DESIGNATED SEATING POSITION: Right Rear Passenger

X 1. Record test fore-aft seat position: Not Adjustable (S7.1.1.5(c)(1)) (Any position is acceptable)
X 2. Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT have to be attached by the vehicle user to the seat belt webbing, retractor, or any other part of the vehicle. (S7.1.1.5 (a))
   X Yes – Pass
   - No – Fail
X 3. Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does NOT require inverting, twisting or deforming of the belt webbing. (S7.1.1.5 (a))
   X Yes – Pass
   - No – Fail
X 4. Buckle the seat belt. (S7.1.1.5(c)(1))
X 5. Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2))
X 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))
X 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?
   X Yes, go to 7.1
   - No, go to 8
X 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))
   X Yes – Pass
   - No – Fail
X 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): 64.25 inches

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

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

   Measured force application angle (Spec. 5-15 degrees): 13.8 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): 36.25 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)): 15 lbs/sec

   Measured distance between A and B (inches) (S7.1.1.5(c)(6)): 37 inches

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

   13 - 12 = 0.75 inches

   Yes – Pass
   No – Fail

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

   9 - 13 = 27.25 inches

   Yes – Pass
   No – Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 03/23/04

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

Test Vehicle: 2005 Ford Escape
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke
NHTSA No.: C50200
Test Date: 3/23/04

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 seconds
5. The occupant is in the driver’s seat.
6. The seat belt is in the stowed position.
7. The key is in the “on” or “start” position.
8. The time duration of the warning light beginning with key “on” or “start” is
   Seconds: 60.0 seconds
9. The occupant is in the driver’s seat.
10. The seat belt is in the latched position and with at least 4 inches of belt webbing extended.
11. The key is in the “on” or “start” position.
12. The time duration of the audible signal beginning with key “on” or “start” is
    Seconds: 0.0 seconds
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 seconds
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</th>
<th>Warning light specification</th>
<th>Audible signal</th>
<th>Audible signal specification*</th>
</tr>
</thead>
<tbody>
<tr>
<td>S7.3 (a)(1)</td>
<td>Belt latched &amp; key on or start</td>
<td>Item 16: 0.0</td>
<td>Item 12: 0.0</td>
</tr>
<tr>
<td></td>
<td>Belt stowed &amp; key on or start</td>
<td>Item 8: 60.0</td>
<td>Item 4: 6.0</td>
</tr>
<tr>
<td>S7.3 (a)(2)</td>
<td>Belt latched &amp; key on or start</td>
<td>Item 16: 0.0</td>
<td>Item 12: 0.0</td>
</tr>
<tr>
<td></td>
<td>Belt stowed &amp; key on or start</td>
<td>Item 8: 60.0</td>
<td>Item 4: 6.0</td>
</tr>
</tbody>
</table>

* 49 USCS @ 30124 does NOT allow an audible signal to operate for more than 8 seconds.
** 0 seconds means the light or audible signal are NOT permitted to operate under these conditions.
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: __________________________

Date: 03/23/04
DATA SHEET 10
BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2005 Ford Escape  NHTSA No.: C50200
Test Program: FMVSS 208 Compliance  Test Date: 3/23/04
Test Technician: Wayne Dahlke

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

DESIGNATED SEATING POSITION: Left Front Driver

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

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

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

4. 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)
X 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:

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

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

X 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: 17.5° on seat back frame
Tested seat back angle: 17.3° on seat back frame

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

X 14. Fasten the seat belt latch.

X 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.

X 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): 0.3

X 0.0 to 0.7 pounds – Pass

X Greater than 0.7 pounds - Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 03/23/04
DATA SHEET 10
BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2005 Ford Escape
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke
NHTSA No.: C50200
Test Date: 3/23/04

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 Front Passenger</th>
</tr>
</thead>
</table>

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.

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

10. Using only the controls that change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the middle fore-aft position for this test. (S8.1.2)
Mid position
If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat:

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

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

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: 17.5° on seat back frame
Tested seat back angle 17.7° on seat back frame

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

14. Fasten the seat belt latch.

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

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

Contact Force (lb): 0.4
0.0 to 0.7 pounds – Pass
Greater than 0.7 pounds - Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 03/23/04
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: Left 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 mid-point), and R for full rearward.
   - N/A, the seat does not have a fore-aft adjustment

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

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

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

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: Not adjustable
Tested seat back angle: Not adjustable

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

Fasten the seat belt latch.

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.

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

Contact Force (lb): 0.3

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

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________
Date:  03/23/04
DATA SHEET 10
BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2005 Ford Escape
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke
Test Date: 3/23/04
NHTSA No.: C50200

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 mid-point), and R for full rearward.

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: Zero

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: Not adjustable
Tested seat back angle: Not adjustable

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): 0.5
0.0 to 0.7 pounds – Pass
Greater than 0.7 pounds - Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: 

Date: 03/23/04
DATA SHEET 10
BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2005 Ford Escape  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke  
NHTSA No.: C50200  
Test Date: 3/23/04

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: Right 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 mid-point), and R for full rearward.
   - N/A, the seat does not have a fore-aft adjustment

10. Using only the controls that change the seat in the fore-aft direction, place the seat in the full rearward position and then place the seat in the middle fore-aft position for this test. (S8.1.2)
Mid position
If there is no mid position, put the seat in the closest adjustment position to the rear of the midpoint. Describe the location of the seat: 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: Zero

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: Not adjustable

Tested seat back angle: Not adjustable

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): 0.4

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

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 03/23/04
DATA SHEET 11
LATCH PLATE ACCESS (S7.4.4)

Test Vehicle: 2005 Ford Escape
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke
NHTSA No.: C50200
Test Date: 3/23/04

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: Left Front Driver

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

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

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

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

5. 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

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

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

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.
   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, 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)
   X

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.
    X 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: 17.5° on seat back frame
   - Tested seat back angle: 17.3° on seat back frame

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

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

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

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

16. Place the latch plate in the stowed position.

17. Extend inboard reach string in front of the dummy and then backward and outboard to the latch plate to generate an arc of the reach envelope of the test dummy’s arms. Is the latch plate within the reach envelope?
   - Yes – Pass
   - No

18. Extend outboard reach string in front of the dummy and then backward and outboard to the latch plate to generate an arc of the reach envelope of the test dummy’s arms. Is the latch plate within the reach envelope?
   - Yes – Pass
   - No

19. Is the latch plate within the inboard (item 17) or outboard (item 18) reach envelope?
   - Yes – Pass
   - No – Fail

20. Using the clearance test block, specified in Figure 4, is there sufficient clearance between the vehicle seat and the side of vehicle interior to allow the test block to move unhindered to the latch plate or buckle?
   - Yes – Pass
   - No – Fail
Attach the Inboard Reach String (19\(\frac{1}{4}\)" 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.

Seat Plane is 90° to the Torso Line

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

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 03/23/04
DATA SHEET 11
LATCH PLATE ACCESS (S7.4.4)

Test Vehicle: 2005 Ford Escape  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke

NHTSA No.: C50200  
Test Date: 3/23/04

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: Right Front Passenger

1. Position the seat’s adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S7.4.4)
   - 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
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: 17.5° on seat back frame
   Tested seat back angle: 17.7° on seat back frame

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

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

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

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

16. Place the latch plate in the stowed position.

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

   Yes – Pass
   No

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

   Yes – Pass
   No

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

   Yes – Pass
   No – Fail

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

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

I certify that I have read and performed each instruction.

Signature:  

Date:  03/23/04
DATA SHEET 12
SEAT BELT RETRACTION (S7.4.5)

Test Vehicle: 2005 Ford Escape
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

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

<table>
<thead>
<tr>
<th>DESIGNATED SEATING POSITION:</th>
<th>Left Front Driver</th>
</tr>
</thead>
<tbody>
<tr>
<td>GVWR:</td>
<td>1896 kg</td>
</tr>
</tbody>
</table>

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

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

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

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

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

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

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

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

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

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

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: 17.5° on seat back frame  
Tested seat back angle: 17.3° on seat back frame

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

14. Place any adjustable seat belt anchorages at the vehicle manufacturer's nominal design position for a 50th percentile adult male occupant (S8.1.3)  
N/A – no adjustable upper seat belt anchorage
Manufacturer’s specified anchorage position: Topmost  
Tested anchorage position: Topmost

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:: 522 mm  
Record the distance from the edge of the seat to Plane B: 261 mm

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

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

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

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

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

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

- Measured distance (10.6 inches) (S10.5): 10.5 inches

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

22. Fasten the seat belt around the dummy.

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

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

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

- Pound load applied: 4 lbs

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

27.3 Neither A or B apply Fail

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

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

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

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 03/23/04
DATA SHEET 12
SEAT BELT RETRACTION (S7.4.5)

Test Vehicle: 2005 Ford Escape
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

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

DESIGNATED SEATING POSITION: Right Front Passenger
GVWR: 1896 kg

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

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)
   - 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. (S16.2.10.2)
   - 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. (S16.2.10.3.1)
   - N/A, no independent fore-aft seat cushion adjustment

X 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

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

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

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

X 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

X 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:

Test Vehicle: 2005 Ford Escape
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

NHTSA No.: C50200
Test Date: 3/23/04
11. If seat adjustments, other than fore-aft, are present and the reference line is no longer horizontal, use those adjustments to maintain the reference line as closely as possible to the horizontal. (S16.2.10.3.2)

N/A – no seat adjustment

Reference angle as tested: Zero

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: 17.5° on seat back frame

Tested seat back angle: 17.7° on seat back frame

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

N/A – no head restraint adjustment

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

N/A – no adjustable upper seat belt anchorage

Manufacturer’s specified anchorage position: Topmost

Tested anchorage position: Topmost

15. Is the driver seat a bucket seat?

X 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: 510 mm

Record the distance from the edge of the seat to Plane B: 255 mm

15.2 Bench seats (including split bench seats):

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

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

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

Distance from the vehicle centerline to Plane B:

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

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

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

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

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

- Measured distance (10.6 inches) (S10.5): 10.6 inches

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

22. Fasten the seat belt around the dummy.

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

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

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

- Pound load applied: 3 lbs

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

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

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

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

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 03/23/04
**DATA SHEET 13**

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

<table>
<thead>
<tr>
<th>Test Vehicle:</th>
<th>2005 Ford Escape</th>
<th>NHTSA No.:</th>
<th>C50200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
<td>Test Date:</td>
<td>3/23/04</td>
</tr>
<tr>
<td>Test Technician:</td>
<td>Wayne Dahlke</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**DESIGNATED SEATING POSITION:** Left Front Driver

<table>
<thead>
<tr>
<th></th>
<th>Is the seat cushion movable so that the seat back serves a function other than seating? (S7.4.6.1(b))</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Yes, this form is complete</td>
</tr>
<tr>
<td></td>
<td>No, go to 2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Is the seat removable? (S7.4.6.1(b))</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Yes, this form is complete</td>
</tr>
<tr>
<td></td>
<td>No, go to 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>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))</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Yes, this form is complete</td>
</tr>
<tr>
<td></td>
<td>No, go to 4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Is the webbing designed to pass through the seat cushion or between the seat cushion and seat back? (S7.4.6.1(a))</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Yes, go to 5</td>
</tr>
<tr>
<td></td>
<td>No, this form is complete</td>
</tr>
</tbody>
</table>

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

Identify the part(s) on top or above the seat.

- Seat belt latch plate
- Buckle
- Seat belt webbing

<table>
<thead>
<tr>
<th></th>
<th>Are the remaining two seat belt parts accessible under normal conditions?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes – Pass</td>
</tr>
<tr>
<td></td>
<td>No – Fail</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>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)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
8. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat is moved to any position to which it is designed to be adjusted. (S7.4.6.2)

Yes – Pass
No – Fail

9. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat back, if foldable, is folded forward as far as possible and then moved backward into position. (S7.4.6.2)

Yes – Pass
No – Fail

10. Is the inboard receptacle end of the seat belt assembly, installed in the front outboard designated seating position, accessible with the center armrest in any position to which it can be adjusted (without moving the armrest)? (S7.4.6.2)

Yes – Pass
No – Fail
N/A – Rear seat

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 03/23/04
**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:** Right Front Passenger

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Is the seat cushion movable so that the seat back serves a function other than seating? (S7.4.6.1(b))</td>
</tr>
<tr>
<td></td>
<td>Yes, this form is complete</td>
</tr>
<tr>
<td>X</td>
<td>No, go to 2</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Is the seat removable? (S7.4.6.1(b))</td>
</tr>
<tr>
<td></td>
<td>Yes, this form is complete</td>
</tr>
<tr>
<td>X</td>
<td>No, go to 3</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Is the seat movable so that the space formerly occupied by the seat can be used for a secondary function? (S7.4.6.1(b))</td>
</tr>
<tr>
<td></td>
<td>Yes, this form is complete</td>
</tr>
<tr>
<td>X</td>
<td>No, go to 4</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Is the webbing designed to pass through the seat cushion or between the seat cushion and seat back? (S7.4.6.1(a))</td>
</tr>
<tr>
<td></td>
<td>Yes, go to 5</td>
</tr>
<tr>
<td>X</td>
<td>No, this form is complete</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Does one of the following three parts, the seat belt latch plate, the buckle, or the seat belt webbing, stay on top of or above the seat cushion under normal conditions (i.e., conditions other than when belt hardware is intentionally pushed behind the seat by a vehicle occupant)? (S7.4.6.1(a))</td>
</tr>
<tr>
<td></td>
<td>Yes – Pass</td>
</tr>
<tr>
<td></td>
<td>No – Fail</td>
</tr>
<tr>
<td>Identify the part(s) on top or above the seat.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Seat belt latch plate</td>
</tr>
<tr>
<td></td>
<td>Buckle</td>
</tr>
<tr>
<td></td>
<td>Seat belt webbing</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Are the remaining two seat belt parts accessible under normal conditions?</td>
</tr>
<tr>
<td></td>
<td>Yes – Pass</td>
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<td></td>
<td>No – Fail</td>
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<tr>
<td>7.</td>
<td>The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the belt is completely retracted or, if the belt is nonretractable, the belt is unlatched. (S7.4.6.2)</td>
</tr>
<tr>
<td></td>
<td>Yes – Pass</td>
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<tr>
<td></td>
<td>No – Fail</td>
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</tbody>
</table>

**Test Vehicle:** 2005 Ford Escape  
**NHTSA No.:** C50200  
**Test Program:** FMVSS 208 Compliance  
**Test Technician:** Wayne Dahlke  
**Test Date:** 3/23/04
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:  

Date:  03/23/04
## DATA SHEET 13

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

**Test Vehicle:** 2005 Ford Escape  
**NHTSA No.:** C50200  
**Test Program:** FMVSS 208 Compliance  
**Test Technician:** Wayne Dahlke  
**Test Date:** 3/23/04

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: 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))**
   - X Yes, this form is complete
   - No, go to 2

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

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

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

5. **Does one of the following three parts, the seat belt latch plate, the buckle, or the seat belt webbing, stay on top of or above the seat cushion under normal conditions (i.e., conditions other than when belt hardware is intentionally pushed behind the seat by a vehicle occupant)? (S7.4.6.1(a))**
   - X 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?**
   - X 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)**
   - X Yes – Pass
   - No – Fail
8. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat is moved to any position to which it is designed to be adjusted. (S7.4.6.2)
   - Yes – Pass
   - No – Fail

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

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

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________

Date: 03/23/04
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

<p>| | |</p>
<table>
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</tbody>
</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: 03/23/04
DATA SHEET 13
SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2005 Ford Escape  
Test Program: FMVSS 208 Compliance  
Test Technician: Wayne Dahlke

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

DESIGNATED SEATING POSITION: Right Rear Passenger

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

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

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

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

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

6. Are the remaining two seat belt parts accessible under normal conditions?
   - X 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)
   - X Yes – Pass
   - No – Fail
8. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat is moved to any position to which it is designed to be adjusted. (S7.4.6.2)
   Yes – Pass
   No – Fail

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

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

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________

Date:  03/23/04
DATA SHEET 14
MARKING OF REFERENCE POINTS FOR VARIOUS TEST POSITIONS AND POINTS

Test Vehicle: 2005 Ford Escape
Test Program: FMVSS 208 Compliance
Test Technician: Eric Peschman
NHTSA No.: C50200
Test Date: 9/3/04

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.
      X Maximum Angle: Not Adjustable
      X Minimum Angle: Not Adjustable
      X Mid-angle: Not Adjustable
   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.

1.18 Is the seat a bucket seat?

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: 520 mm
- One half the width of the seat cushion is: 260 mm
- 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?

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)

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)

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)

X 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.

X 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.

X N/A – No seat height adjustment Go to 2.18

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

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

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

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

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

X 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: 17.5 degrees on seat back frame

Actual seat back angle: 17.4 degrees on seat back frame

2.19 Is the seat a bucket seat?

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

2.19.1 Bucket seats:

X 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)

X Record the width of the seat cushion: 520 mm
X One half the width of the seat cushion is: 260 mm

3. Head Restraints

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

3.1 Left outboard

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

X 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.

X 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): 238

X Mid-point height (mm): 119

3.2 Right outboard

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

X 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.

X 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): 233
Mid-point height (mm): 111

4. Steering Wheel

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

X 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-38)

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

<table>
<thead>
<tr>
<th>Ey (mm)</th>
<th>&quot;Plane E&quot; Measurement:</th>
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<tbody>
<tr>
<td>Measured:</td>
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<tr>
<td>Specified:</td>
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<tr>
<td>Verify Measured Equals Specified +/- 6mm:</td>
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</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-38)

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

<table>
<thead>
<tr>
<th>Fz (mm)</th>
<th>&quot;Plane F&quot; Measurement:</th>
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<tbody>
<tr>
<td>Measured:</td>
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<tr>
<td>Specified:</td>
<td></td>
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<tr>
<td>Verify Measured Equals Specified +/- 6mm:</td>
<td></td>
</tr>
</tbody>
</table>
6. Passenger Low Risk Deployment – Planes C and D
   N/A, no low risk deployment tests scheduled

6.1 Locate the horizontal plane through the geometric center of the opening through which the right front air bag deploys into the occupant compartment. This is referred to as "Plane C." (Check location method below.) (S22.4.1.3)
   Plane C located using manufacturer’s information supplied by the COTR.
   (Include manufacturer’s information in the test report.) OR
   Plane C located by test lab personnel and approved by the COTR.
   (Include supporting documentation in the test report.)

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

6.2 Locate the vertical plane parallel to the vehicle longitudinal centerline through the geometric center of the opening through which the right front air bag deploys into the occupant compartment. This is referred to as "Plane D." (Check determination method below.) (S22.4.1.2)
   Plane D determined using manufacturer’s information supplied by the COTR.
   (Include manufacturer’s information in the test report.) OR
   Plane D determined by test lab personnel and approved by the COTR.
   (Include supporting documentation in the test report.)

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

6.3 Mark the intersection of Planes C and D on the instrument panel.

7. 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 midsagittal 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)

9. 3-Year-Old Dummy
   Locate and mark a point on the front of the dummy’s chest jacket on the midsagittal 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)

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

Signature: ____________________  Date: 9/3/04
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>C50200</th>
<th>TEST DATE:</th>
<th>3-18-04</th>
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<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNOLOG:</td>
<td>JL/TB</td>
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<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>082</td>
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</table>

<table>
<thead>
<tr>
<th>CHILD RESTRAINT NAME:</th>
<th>Britax</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHILD RESTRAINT MODEL:</td>
<td>Handle With Care 191</td>
</tr>
<tr>
<td>DATE OF MANUFACTURE:</td>
<td>5-26-2000</td>
</tr>
</tbody>
</table>

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

Manufacturer’s design seat back angle: 17.5° On Seat Back Frame
Tested seat back angle: 17.5° On Seat Back Frame
Manufacturer’s specified anchorage position: Top
Tested anchorage position: 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>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Seat Belt</strong></td>
</tr>
<tr>
<td>Belted</td>
</tr>
<tr>
<td>Rear Facing</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Unbelted</td>
</tr>
<tr>
<td>Rear Facing</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Unbelted</td>
</tr>
<tr>
<td>Forward Facing</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN513)

* 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; 25 = Full Rearward; 25 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>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C50200</th>
<th>TEST DATE:</th>
<th>3-18-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL/TB</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>082</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>CHILD RESTRAINT NAME:</th>
<th>Evenflo</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHILD RESTRAINT MODEL:</td>
<td>First Choice 204</td>
</tr>
<tr>
<td>DATE OF MANUFACTURE:</td>
<td>6-20-2000</td>
</tr>
</tbody>
</table>

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

Manufacturer’s design seat back angle: 17.5° On Seat Back Frame
Tested seat back angle: 17.5° On Seat Back Frame
Manufacturer’s specified anchorage position: Top
Tested anchorage position: 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>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward 8 *</td>
<td>134</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Rear</td>
<td>Middle</td>
<td>130</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>126</td>
<td>Suppressed</td>
<td>N/A</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Forward 8 *</td>
<td>N/A</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Rear</td>
<td>Middle</td>
<td>N/A</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
<td>N/A</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Forward 4 *</td>
<td>N/A</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward</td>
<td>Middle</td>
<td>N/A</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>N/A</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN513)

* 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; 25 = Full Rearward; 25 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

NHTSA No.: C50200  TEST DATE: 3-18-04
LABORATORY: MGA  TECHNICIANS: JL/TB
DUMMY TYPE: 12 Month Old  DUMMY SERIAL NO.: 082

CHILD RESTRAINT NAME: Graco
CHILD RESTRAINT MODEL: Infant 8457
DATE OF MANUFACTURE: 8-31-2000

Base: _X_ On ___ Off ___N/A-Restraint does not have a removable base

Manufacturer’s design seat back angle: 17.5° On Seat Back Frame
Tested seat back angle: 17.5° On Seat Back Frame
Manufacturer’s specified anchorage position: Top
Tested anchorage position: 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>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td>Forward</td>
<td>N/A</td>
<td>N/A</td>
<td>Won't Fit</td>
</tr>
<tr>
<td>Rear</td>
<td>Middle</td>
<td>127</td>
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<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>128</td>
<td>Suppressed</td>
<td>N/A</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Forward</td>
<td>N/A</td>
<td>N/A</td>
<td>Won't Fit</td>
</tr>
<tr>
<td>Rear</td>
<td>Middle</td>
<td>N/A</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
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<td>Facing</td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
<td>N/A</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Forward 3 *</td>
<td>N/A</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward</td>
<td>Middle</td>
<td>N/A</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Facing</td>
<td>Rearward</td>
<td>N/A</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 25 = Full Rearward; 25 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>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C50200</th>
<th>TEST DATE:</th>
<th>3-18-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL/TB</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>082</td>
</tr>
</tbody>
</table>

| CHILD RESTRAINT NAME: | Graco |
| CHILD RESTRAINT MODEL: | Infant 8457 |
| DATE OF MANUFACTURE: | 8-31-2000 |

Base: __On  _X_Off __N/A-Restraint does not have a removable base

Manufacturer’s design seat back angle: 17.5° On Seat Back Frame
Tested seat back angle: 17.5° On Seat Back Frame
Manufacturer’s specified anchorage position: Top
Tested anchorage position: 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>Cinch Load (N)</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>Rear</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Facing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Forward 8 *</td>
<td>127</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>128</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>130</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Unbelted</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rear</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Facing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Forward 8 *</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
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<td>Forward</td>
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<td></td>
<td>Forward 2 *</td>
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<td></td>
<td>Middle</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN513)

* 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; 25 = Full Rearward; 25 total Seat Slide detents)
DATA SHEET 15 SUMMARY
Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart R)
Section C  Forward Facing Convertible CRS

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C50200</th>
<th>TEST DATE:</th>
<th>3-16-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL/TB</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>082</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CHILD RESTRAINT NAME:</th>
<th>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>
</tr>
</tbody>
</table>

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

Manufacturer’s design seat back angle: 17.5° On Seat Back Frame
Tested seat back angle: 17.5° On Seat Back Frame
Manufacturer’s specified anchorage position: Top
Tested anchorage position: Top

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

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

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN513)
DATA SHEET 15 SUMMARY
Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart R)
Section C  Forward Facing Convertible CRS

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>TEST DATE:</th>
<th>LABORATORY:</th>
<th>TECHNICIANS:</th>
<th>DUMMY TYPE:</th>
<th>DUMMY SERIAL NO.:</th>
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</thead>
<tbody>
<tr>
<td>C50200</td>
<td>3-16-04</td>
<td>MGA</td>
<td>JL/TB</td>
<td>12 Month Old</td>
<td>082</td>
</tr>
</tbody>
</table>

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

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

Manufacturer’s design seat back angle:  17.5° On Seat Back Frame
Tested seat back angle:  17.5° On Seat Back Frame
Manufacturer’s specified anchorage position:  Top
Tested anchorage position:  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>129</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>130</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Forward</td>
<td>N/A</td>
<td>Suppressed</td>
</tr>
<tr>
<td></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></td>
<td>Middle</td>
<td>127</td>
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</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>128</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 Middle position. (SN513)
DATA SHEET 15 SUMMARY
Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart R)
Section C  Forward Facing Convertible CRS

<table>
<thead>
<tr>
<th>NHTSA No.</th>
<th>TEST DATE</th>
<th>3-16-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
</tr>
<tr>
<td>DUMMY TYPE</td>
<td>12 Month Old</td>
<td>DUMMY SERIAL NO.:</td>
</tr>
</tbody>
</table>

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

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

Manufacturer’s design seat back angle: 17.5° On Seat Back Frame
Tested seat back angle: 17.5° On Seat Back Frame
Manufacturer’s specified anchorage position: Top
Tested anchorage position: 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>127</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
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</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>125</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>Rear</td>
<td>Forward</td>
<td>130</td>
</tr>
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</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>134</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Unbelted</td>
<td>Rear</td>
<td>Forward</td>
<td>N/A</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. (SN513)
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>C50200</th>
<th>TEST DATE:</th>
<th>3-17-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL/TB</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: 17.5° On Seat Back Frame
Tested seat back angle: 17.5° On Seat Back Frame
Manufacturer’s specified anchorage position: Top
Tested anchorage position: 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>Won’t Fit *</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Middle</td>
<td>Suppressed *</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Rearward</td>
<td>Suppressed *</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN513)

* The Cosco Dream Ride Car Bed was tested for suppression in the middle, and rear seat slide positions. Its orientation was longitudinal with the Newborn dummy’s head placed towards the front of the vehicle closest to the instrument panel. It would not fit in any lateral orientation due to interference with the shifter and console.
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>C50200</th>
<th>TEST DATE:</th>
<th>3-18-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL/TB</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>3 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>032</td>
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</table>

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

Manufacturer’s design seat back angle: 17.5° On Seat Back Frame
Tested seat back angle: 17.5° On Seat Back Frame
Manufacturer’s specified anchorage position: Top
Tested anchorage position: 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>14</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward Facing</td>
<td>Middle</td>
<td>11</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Without Harness</td>
<td>Rearward</td>
<td>15</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Belted</td>
<td>Forward 4 *</td>
<td>130</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Forward Facing</td>
<td>Middle</td>
<td>127</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Cinched With Harness</td>
<td>Rearward</td>
<td>126</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN513)

* 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; 25 = Full Rearward; 25 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>TEST DATE</th>
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<tr>
<td>C50200</td>
<td>3-18-04</td>
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<table>
<thead>
<tr>
<th>LABORATORY</th>
<th>TECHNICIANS</th>
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<tbody>
<tr>
<td>MGA</td>
<td>JL/TB</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DUMMY TYPE</th>
<th>DUMMY SERIAL NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Year Old</td>
<td>032</td>
</tr>
</tbody>
</table>

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

Manufacturer’s design seat back angle: **17.5° On Seat Back Frame**
Tested seat back angle: **17.5° On Seat Back Frame**
Manufacturer’s specified anchorage position: **Top**
Tested anchorage position: **Top**

## Test Summary

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Belted Forward Facing</td>
<td>Forward</td>
<td>N/A</td>
<td>Won’t Fit</td>
</tr>
<tr>
<td>Without Harness</td>
<td>Middle</td>
<td>14</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>13</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Belted Forward Facing</td>
<td>Forward</td>
<td>N/A</td>
<td>Won’t Fit</td>
</tr>
<tr>
<td>Cinched With Harness</td>
<td>Middle</td>
<td>130</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>126</td>
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</tr>
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</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN513)
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>C50200</th>
<th>TEST DATE:</th>
<th>3-17-04</th>
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<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL/TB</td>
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<tr>
<td>DUMMY TYPE:</td>
<td>3 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
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</tbody>
</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: 17.5° On Seat Back Frame
Tested seat back angle: 17.5° On Seat Back Frame
Manufacturer’s specified anchorage position: Top
Tested anchorage position: Top

<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 11 *</td>
<td>130</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>130</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>127</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN513)

* 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; 25 = Full Rearward; 25 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>C50200</th>
<th>TEST DATE:</th>
<th>3-17-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL/TB</td>
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<tr>
<td>DUMMY TYPE:</td>
<td>3 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>032</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>
</tr>
</tbody>
</table>

Manufacturer’s design seat back angle: 17.5° On Seat Back Frame
Tested seat back angle: 17.5° On Seat Back Frame
Manufacturer’s specified anchorage position: Top
Tested anchorage position: 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></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forward</td>
<td>N/A</td>
<td></td>
<td>Won’t Fit</td>
</tr>
<tr>
<td>Middle</td>
<td>130</td>
<td></td>
<td>Suppressed</td>
</tr>
<tr>
<td>Rearward</td>
<td>127</td>
<td></td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN513)
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>C50200</th>
<th>TEST DATE:</th>
<th>3-17-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL/TB</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>3 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>032</td>
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</table>

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

Manufacturer’s design seat back angle: 17.5° On Seat Back Frame
Tested seat back angle: 17.5° On Seat Back Frame
Manufacturer’s specified anchorage position: Top
Tested anchorage position: Top

<table>
<thead>
<tr>
<th>Seat Belt</th>
<th>Seat Slide</th>
<th>Cinch Load (N)</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belted</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Forward</td>
<td>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>134</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN513)
### DATA SHEET 19 SUMMARY

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

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C50200</th>
<th>TEST DATE:</th>
<th>3-17-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL/TB</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>3 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>032</td>
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</tbody>
</table>

#### Test Summary

<table>
<thead>
<tr>
<th>Position</th>
<th>Seat Slide</th>
<th>Seat Back Angle</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Position 1</strong></td>
<td>Sitting on seat with back against seat back</td>
<td>Forward 17.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Middle 17.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rearward 17.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td><strong>Position 2</strong></td>
<td>Sitting on seat with back against reclined seat back</td>
<td>Forward 41.1</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Middle 41.1</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rearward 41.1</td>
<td>Suppressed</td>
</tr>
<tr>
<td><strong>Position 3</strong></td>
<td>Sitting on seat with back not against seat back</td>
<td>Forward 4 * 17.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Middle 17.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rearward 17.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td><strong>Position 4</strong></td>
<td>Sitting on seat edge, spine vertical, hands at dummy's sides</td>
<td>Forward 17.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Middle 17.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rearward 17.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td><strong>Position 5</strong></td>
<td>Standing on seat, facing forward</td>
<td>Forward 17.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Middle 17.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rearward 17.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td><strong>Position 6</strong></td>
<td>Kneeling on seat, facing forward</td>
<td>Forward 17.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Middle 17.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rearward 17.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td><strong>Position 7</strong></td>
<td>Kneeling on seat, facing rearward</td>
<td>Forward 17.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Middle 17.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rearward 17.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td><strong>Position 8</strong></td>
<td>Lying on seat. (Three designated seating positions only)</td>
<td>Forward 17.5</td>
<td>N/A</td>
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<tr>
<td></td>
<td></td>
<td>Middle 17.5</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rearward 17.5</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN513)

* 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; 25 = Full Rearward; 25 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>NHTSA No.:</th>
<th>C50200</th>
<th>TEST DATE:</th>
<th>3-19-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL/TB</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>6 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>111</td>
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</table>

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

Manufacturer’s design seat back angle: 17.5° On Seat Back Frame
Tested seat back angle: 17.5° On Seat Back Frame
Manufacturer’s specified anchorage position: Top
Tested anchorage position: 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</td>
<td>10</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
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<tr>
<td></td>
<td>Rearward</td>
<td>13</td>
<td>Suppressed</td>
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Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN513)
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>C50200</th>
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<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL/TB</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>6 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
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<td>BOOSTER SEAT NAME:</td>
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<td>DATE OF MANUFACTURE:</td>
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</table>

Manufacturer’s design seat back angle: 17.5° On Seat Back Frame
Tested seat back angle: 17.5° On Seat Back Frame
Manufacturer’s specified anchorage position: Top
Tested anchorage position: 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>
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<td></td>
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<tr>
<td></td>
<td>Forward</td>
<td>13</td>
<td>Suppressed</td>
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<tr>
<td></td>
<td>Middle</td>
<td>12</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>17</td>
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</table>

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN513)
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>C50200</th>
<th>TEST DATE:</th>
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<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL/TB</td>
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<tr>
<td>DUMMY TYPE:</td>
<td>6 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
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</table>

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

Manufacturer’s design seat back angle: 17.5° On Seat Back Frame
Tested seat back angle: 17.5° On Seat Back Frame
Manufacturer’s specified anchorage position: Top
Tested anchorage position: Top

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

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN513)
DATA SHEET 21 SUMMARY
Suppression Test Using An Unbelted 6-Year-Old Dummy (Part 572, Subpart N)
No CRS

<table>
<thead>
<tr>
<th>NHTSA No.:</th>
<th>C50200</th>
<th>TEST DATE:</th>
<th>3-18-04</th>
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</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>JL/TB</td>
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<tr>
<td>DUMMY TYPE:</td>
<td>6 Year Old</td>
<td>DUMMY SERIAL NO.:</td>
<td>111</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></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sitting on seat with back against seat back</td>
<td>Forward</td>
<td>17.5</td>
<td>Won't Fit</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>17.5</td>
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</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>17.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Position 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sitting on seat with back against reclined seat back</td>
<td>Forward</td>
<td>40.8</td>
<td>Won't Fit</td>
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<tr>
<td></td>
<td>Middle</td>
<td>40.8</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>40.8</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Position 3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sitting on seat edge, spine vertical, hands at dummy's sides</td>
<td>Forward</td>
<td>17.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>17.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>17.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td>Position 4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sitting on seat with back against seat back then leaning on the door</td>
<td>Forward</td>
<td>17.5</td>
<td>Won't Fit</td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>17.5</td>
<td>Suppressed</td>
</tr>
<tr>
<td></td>
<td>Rearward</td>
<td>17.5</td>
<td>Suppressed</td>
</tr>
</tbody>
</table>

Successful Unbelted 5<sup>th</sup> percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN513)
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>C50200</th>
<th>TEST DATE:</th>
<th>7-29-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>LABORATORY:</td>
<td>MGA</td>
<td>TECHNICIANS:</td>
<td>WD/DW/BR</td>
</tr>
<tr>
<td>DUMMY TYPE:</td>
<td>5th Percentile Female</td>
<td>DUMMY SERIAL NO.:</td>
<td>511</td>
</tr>
</tbody>
</table>

Manufacturer’s design seat back angle: 17.5° On Seat Back Frame
Tested seat back angle: 18.1° On Seat Back Frame
Tested seat position: Full Aft
Tested steering wheel angle: 26.0°
Thorax cavity angle: 32.0°
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>100.0</td>
<td>100.4</td>
</tr>
</tbody>
</table>

Injury Criteria

<table>
<thead>
<tr>
<th>Injuries</th>
<th>Max. Allowable Injury Assessment Values</th>
<th>Measured Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIC15</td>
<td>700</td>
<td>28</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.9</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>35.7</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>9.5</td>
</tr>
<tr>
<td>Peak Nij (Nce)</td>
<td>1.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>12.0</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>11.4</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2070 N</td>
<td>1293</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>226</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>9</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>6</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>48</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>45</td>
</tr>
</tbody>
</table>

Calculated on data recorded for 125 ms after the initiation of the final stage of air bag deployment
designed to deploy in any full frontal rigid barrier crash up to 26 km/h. (S4.11(d))
Second stage fire time of 100 ms; Injuries calculated on 0 ms to 225 ms
DATA SHEET 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.: C50200  TEST DATE: 8-12-04
LABORATORY: MGA  TECHNICIANS: WD/DW/BR
DUMMY TYPE: 5th Percentile Female  DUMMY SERIAL NO.: 505

Manufacturer’s design seat back angle: 17.5° On Seat Back Frame
Tested seat back angle: 17.3° On Seat Back Frame
Tested seat position: Full Aft

Tested steering wheel angle: 25.2°
Thorax cavity angle: 31.5°
Chin Point height: 2 mm Above Rim

Air Bag Deployment Timing

<table>
<thead>
<tr>
<th>Stage No.</th>
<th>Firing time (ms)</th>
<th>Recorded firing time (ms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>2</td>
<td>100.0</td>
<td>100.4</td>
</tr>
</tbody>
</table>

5th Percentile Female SN 505 Position 2 (Chin On Rim) 8-12-04

<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>7</td>
</tr>
<tr>
<td>Peak Nij (Nte)</td>
<td>1.0</td>
<td>0.5</td>
</tr>
<tr>
<td>Time (ms)</td>
<td>NA</td>
<td>18.1</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>47.4</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>1.0</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>8.2</td>
</tr>
<tr>
<td>Neck Tension</td>
<td>2070 N</td>
<td>610</td>
</tr>
<tr>
<td>Neck Compression</td>
<td>2520 N</td>
<td>54</td>
</tr>
<tr>
<td>Chest g</td>
<td>60 g</td>
<td>22</td>
</tr>
<tr>
<td>Chest Displacement</td>
<td>52 mm</td>
<td>22</td>
</tr>
<tr>
<td>Left Femur</td>
<td>6805 N</td>
<td>56</td>
</tr>
<tr>
<td>Right Femur</td>
<td>6805 N</td>
<td>60</td>
</tr>
</tbody>
</table>

Calculated on data recorded for 125 ms after the initiation of the final stage of air bag deployment designed to deploy in any full frontal rigid barrier crash up to 26 km/h. (S4.11(d))
Second stage fire time of 100 ms; Injuries calculated on 0 ms to 225 ms
DATA SHEET 30
VEHICLE WEIGHT, FUEL TANK, AND ATTITUDE DATA

Test Vehicle: 2005 Ford Escape  NHTSA No.: C50200
Test Program: FMVSS 208 Compliance  Test Date: 9/03/04
Test Technician: Wayne Dahlke

IMPACT ANGLE: Zero Degrees
BELTED DUMMIES (YES/NO): No – Front Occupants  Yes – Center Rear Passenger
TEST SPEED:  X 32 to 40 kmph  _ 0 to 48 kmph  _ 0 to 56 kmph
DRIVER DUMMY:  _X 5th female  _ 50th Male
PASSENGER DUMMY:  _X 5th female  _X 50th Male Ctr Rear

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: 62.1 liters (16.5 gallons)
5. Record the fuel tank capacity supplied in the owner's manual.
   Useable Fuel Tank Capacity in owner's manual: 62.1 liters (16.5 gallons)
6. Using purple dyed Stoddard solvent having the physical and chemical properties of Type 1 solvent or cleaning fluid, Table 1, ASTM Standard D484-71, “Standard Specifications for Hydrocarbon Dry-cleaning Solvents,” or gasoline, fill the fuel tank.
   Amount Added: 62.1 liters (16.5 gallons)
7. Fill the coolant system to capacity.
8. Fill the engine with motor oil to the Max. mark on the dip stick.
9. Fill the brake reservoir with brake fluid to its normal level.
10. Fill the windshield washer reservoir to capacity.
11. Inflate the tires to the tire pressure on the tire placard. If no tire placard is available, inflate the tires to the recommended pressure in the owner’s manual.
   Tire placard pressure:  RF: 32 psi  LF: 32 psi  RR: 32 psi  LR: 32 psi
   Owner's manual pressure:  RF: 32 psi  LF: 32 psi  RR: 32 psi  LR: 32 psi
   Actual inflated pressure:  RF: 32 psi  LF: 32 psi  RR: 32 psi  LR: 32 psi
12. Record the vehicle weight at each wheel to determine the unloaded vehicle weight (UVW), i.e. "as delivered" weight.
   Right Front (kg): 408.2  Right Rear (kg): 304.8
   Left Front (kg): 443.2  Left Rear (kg): 288.0
   Total Front (kg): 851.4  Total Rear (kg): 592.8
   % Total Weight: 59.0  % Total Weight: 41.0
   UVW = TOTAL FRONT PLUS TOTAL REAR (KG): 1444.2

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: 815  LF: 813  RR: 840  LR: 843

14. Calculate the Rated Cargo and Luggage Weight (RCLW): 100 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 = 440 kg (970 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) = 440 kg - (68 kg x 5) = 100 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): 1641.6 kg

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

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

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

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

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

<table>
<thead>
<tr>
<th>Right Front (kg): 432.3</th>
<th>Right Rear (kg): 379.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Front (kg): 464.5</td>
<td>Left Rear (kg): 365.6</td>
</tr>
<tr>
<td>Total Front (kg): 896.8</td>
<td>Total Rear (kg): 744.8</td>
</tr>
<tr>
<td>% Total Weight: 54.6</td>
<td>% Total Weight: 45.4</td>
</tr>
<tr>
<td>% GVW: 53.6</td>
<td>% GVW: 50.6</td>
</tr>
<tr>
<td>(% GVW = Axle GVW divided by Vehicle GVW)</td>
<td></td>
</tr>
<tr>
<td>Fully Loaded Weight = Total Front Plus Total Rear (kg): 1641.6</td>
<td></td>
</tr>
</tbody>
</table>

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

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

| RF | 806 | LF | 805 | RR | 814 | LR | 820 |

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 = 62.1 liters (16.5 gallons) x .94 = 58.4 liters (15.4 gallons)

Amount added 57.5 liters (15.2 gallons) 92.5%

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)

\[
1642.2 \text{ kg} = 1444.2 \text{ kg} + 100.0 \text{ kg} + 98.0 \text{ kg}
\]

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

Max. Test Weight = Calculated Test Weight – 4.5 kg = 1637.7 kg

Min. Test Weight = Calculated Test Weight – 9 kg = 1633.2 kg

21. Remove the RCLW from the cargo area.

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

23. Vehicle Components Removed For Weight Reduction:

Rear bumper, spare tire, jack, rear lift gate, exhaust, side mirrors, tail lights

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

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

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

| Right Front (kg): | 453.1 | Right Rear (kg): | 347.5 |
| Left Front (kg): | 501.2 | Left Rear (kg): | 331.6 |
| Total Front (kg): | 954.3 | Total Rear (kg): | 679.1 |
| % Total Weight: | 58.4 | % Total Weight: | 41.6 |
| % GVW | 53.6 | % GVW | 50.6 |

(% GVW = Axle GVW divided by Vehicle GVW)

TOTAL FRONT PLUS TOTAL REAR (kg): 1633.4
28. Is the test weight between the Max. Weight and the Min. Weight (See 20.2)?

**X** Yes

**X** 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

<table>
<thead>
<tr>
<th>RF</th>
<th>LF</th>
<th>RR</th>
<th>LR</th>
</tr>
</thead>
<tbody>
<tr>
<td>801</td>
<td>793</td>
<td>830</td>
<td>828</td>
</tr>
</tbody>
</table>

30. Summary of test attitude

30.1 AS DELIVERED:

<table>
<thead>
<tr>
<th>RF</th>
<th>LF</th>
<th>RR</th>
<th>LR</th>
</tr>
</thead>
<tbody>
<tr>
<td>815</td>
<td>813</td>
<td>840</td>
<td>843</td>
</tr>
</tbody>
</table>

AS TESTED:

<table>
<thead>
<tr>
<th>RF</th>
<th>LF</th>
<th>RR</th>
<th>LR</th>
</tr>
</thead>
<tbody>
<tr>
<td>801</td>
<td>793</td>
<td>830</td>
<td>828</td>
</tr>
</tbody>
</table>

FULLY LOADED:

<table>
<thead>
<tr>
<th>RF</th>
<th>LF</th>
<th>RR</th>
<th>LR</th>
</tr>
</thead>
<tbody>
<tr>
<td>806</td>
<td>805</td>
<td>814</td>
<td>820</td>
</tr>
</tbody>
</table>

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

**X** Yes

**X** No, explain why not. Mass distribution altered by 50th% Center Rear Passenger

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 09/03/04
DATA SHEET 31
VEHICLE ACCELEROMETER LOCATION AND MEASUREMENT

Test Vehicle: 2005 Ford Escape  
Test Program: FMVSS 208 Compliance  
Test Technician: Clark Subrt

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

1. 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: _____________________  Date: 09/03/04
VEHICLE ACCELEROMETER LOCATION AND DATA SUMMARY

Dimensions Corresponding To The Letters “A” Through “K” (Excluding “I”) Are Recorded In The Table On The Following Page. Accelerometers Corresponding To The Numbers 1 Through 8 Are Specified On The Preceding Page.
# DATA SHEET 31

## VEHICLE ACCELEROMETER LOCATION AND MEASUREMENTS

<table>
<thead>
<tr>
<th>DIMENSION</th>
<th>LENGTH (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PRETEST VALUES</td>
</tr>
<tr>
<td>A (LH Rear Seat Xmbr)</td>
<td>377</td>
</tr>
<tr>
<td>B (RH Rear Seat Xmbr)</td>
<td>377</td>
</tr>
<tr>
<td>C (Engine Top)</td>
<td>3689</td>
</tr>
<tr>
<td>D (Engine Bottom)</td>
<td>3730</td>
</tr>
<tr>
<td>E (Caliper)</td>
<td>Right Side 3656</td>
</tr>
<tr>
<td>F (Left Caliper)</td>
<td>680</td>
</tr>
<tr>
<td>G (IP)</td>
<td>2854</td>
</tr>
<tr>
<td>H (Seat)</td>
<td>1682</td>
</tr>
<tr>
<td>J (Right Caliper)</td>
<td>680</td>
</tr>
<tr>
<td>K (Trunk)</td>
<td>853</td>
</tr>
<tr>
<td></td>
<td>POST TEST VALUES</td>
</tr>
<tr>
<td>A (LH Rear Seat Xmbr)</td>
<td>377</td>
</tr>
<tr>
<td>B (RH Rear Seat Xmbr)</td>
<td>377</td>
</tr>
<tr>
<td>C (Engine Top)</td>
<td>3580</td>
</tr>
<tr>
<td>D (Engine Bottom)</td>
<td>3688</td>
</tr>
<tr>
<td>E (Caliper)</td>
<td>Right Side 3628</td>
</tr>
<tr>
<td>F (Left Caliper)</td>
<td>680</td>
</tr>
<tr>
<td>G (IP)</td>
<td>2856</td>
</tr>
<tr>
<td>H (Seat)</td>
<td>1685</td>
</tr>
<tr>
<td>J (Right Caliper)</td>
<td>660</td>
</tr>
<tr>
<td>K (Trunk)</td>
<td>852</td>
</tr>
</tbody>
</table>
DATA SHEET 32
PHOTOGRAPHIC TARGETS

Test Vehicle: 2005 Ford Escape  
Test Program: FMVSS 208 Compliance  
Test Technician: Clark Subrt

**IMPACT ANGLE:** Zero Degrees

**BELTED DUMMIES (YES/NO):**  
- No – Front Occupants
- Yes – Center Rear Passenger

**TEST SPEED:**  
| X | 32 to 40 kmph | X | 0 to 48 kmph | X | 0 to 56 kmph |

**DRIVER DUMMY:**  
| X | 5' female |

**PASSENGER DUMMY:**  
| X | 5' female | X | 50' Male Ctr Rear

---

**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.

**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.

**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.

**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.

**1.8** Two circular targets (C1 and C2) at least 90 mm in diameter and with black and yellow quadrants are mounted on the outside of the passenger door. The centers of each circular target are at least 610 mm apart.

**1.9** Place tape with squares having alternating colors on the top portion of the steering wheel.

**1.10** Chalk the bottom portion of the steering wheel

**1.11** Is this an offset test?

- Yes, continue with this section
- No, go to 2.

**1.12** Measure the width of the vehicle.

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. (Removed at manufacturer’s request with COTR approval)

4.2 Resection panel (Figure 28C)

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

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

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

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

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

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

REMARKS: Center Rear Passenger Dummy Target Information:

Horizontal distance from camera to dummy reference targets: 763 mm
Horizontal distance from camera to vehicle reference targets: 1570 mm
Distance between 1” reference targets: 76 mm
Reference targets were placed on inch tape for continuous reference.

I certify that I have read and performed each instruction.

Signature: 

Date: 09/03/04
REFERENCE PHOTO TARGETS

CONCRETE BARRIER

MONORAIL

COVERED PHOTO PIT

LEFT SIDE VIEW
RESECTION PANEL TARGETING ALIGNMENT

CAR TOP TARGETS A1 & A2

RESECTION CONTROL POINTS PANEL

STEERING WHEEL

STEERING COLUMN TARGET B

REAR VIEW

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

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

LEFT SIDE VIEW

914 mm
DATA SHEET 33
CAMERA LOCATIONS

Test Vehicle: 2005 Ford Escape
Test Program: FMVSS 208 Compliance
NHTSA No.: C50200
Test Date: 9/03/04
Time: 12:19 pm

<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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<tr>
<td></td>
<td></td>
<td>X</td>
<td>Y</td>
<td>Z</td>
</tr>
<tr>
<td>1</td>
<td>Real Time Left Side View</td>
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<td>13</td>
<td>24</td>
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<tr>
<td>2</td>
<td>Left Side View (Barrier face to front seat backs)</td>
<td>790</td>
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<tr>
<td>3</td>
<td>Left Side View (Driver)</td>
<td>1800</td>
<td>-7980</td>
<td>1539</td>
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<tr>
<td>4</td>
<td>Left Side View (B-post aimed toward center of steering wheel)</td>
<td>6525</td>
<td>-4150</td>
<td>1975</td>
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<tr>
<td>5</td>
<td>Left Side View (Steering Column)</td>
<td>2410</td>
<td>-5660</td>
<td>1560</td>
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<tr>
<td>6</td>
<td>Left Side View (Steering Column)</td>
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<td>Right Side View (Overall)</td>
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<td>8</td>
<td>Right Side View (Passenger)</td>
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<td>Right Side View (Angle)</td>
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<td>12</td>
<td>Front View Driver</td>
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<td>13</td>
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<td>Overhead Barrier Impact View</td>
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<td>0</td>
<td>5050</td>
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<td>15</td>
<td>Pit Camera Engine View</td>
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<td>16</td>
<td>Pit Camera Fuel Tank View</td>
<td>3085</td>
<td>0</td>
<td>-3150</td>
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<tr>
<td>17</td>
<td>Onboard Rear Passenger View</td>
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<td></td>
<td>7.5</td>
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</tbody>
</table>

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

- CONCRETE PAD
- COVERED PHOTO PIT
- TOW ROAD
- MONORAIL
- REAL TIME CAMERA
- CONCRETE BARRIER
- COVERED PHOTO PIT
- LEFT SIDE VIEW
- TOP VIEW
- CONCRETE PAD
DATA SHEET 34
APPENDIX G
DUMMY POSITIONING PROCEDURES
FOR 5th% DRIVER TEST DUMMY CONFORMING TO SUBPART O OF PART 572

<table>
<thead>
<tr>
<th>Test Vehicle:</th>
<th>2005 Ford Escape</th>
</tr>
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<tbody>
<tr>
<td>Test Program:</td>
<td>FMVSS 208 Compliance</td>
</tr>
<tr>
<td>Test Technician:</td>
<td>Eric Peschman</td>
</tr>
<tr>
<td>NHTSA No.:</td>
<td>C50200</td>
</tr>
<tr>
<td>Test Date:</td>
<td>9/03/04</td>
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</table>

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

1. Position the seat’s adjustable lumbar supports so that the lumbar supports are in the lowest, retracted or deflated adjustment position. (S16.2.10.1)
   X N/A – No lumbar adjustment

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

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

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

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

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

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

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

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

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

11. Set the angle between the legs and the thighs to 120 degrees. (S16.3.2.1.6)
X 12. Set the transverse distance between the centers of the front of the knees at 160 to 170 mm. (6.3 to 6.7 inches) Center the knee separation with respect to the longitudinal seat cushion marking as determined in item 1.18 of Data Sheet 14. (S16.3.2.1.6)
Record Knee Separation 165 mm

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

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

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

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

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

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

_19. If the dummy’s legs contact the steering wheel, move the steering wheel up the minimum amount required to avoid contact. If the steering wheel is not adjustable separate the knees the minimum required to avoid contact. (S16.3.2.1.8)
__N/A- there was no leg contact
__Steering wheel repositioned
__Knees separated

_20. If the left foot interferes with the clutch or brake pedals, rotate the left foot about the leg to provide clearance. If this is not sufficient, rotate the thigh outboard at the hip the minimum amount required for clearance. (S16.3.2.1.8)
__N/A, No foot interference with pedals.
__Foot adjusted to provide clearance.
__Foot and Thigh adjusted to provide clearance.
21. Continue to move the seat. Use seat controls to line up the seat markings determined during the completion of Data Sheet 14 to set the foremost fore-aft position, mid-height position and the seat cushion mid-angle. If the dummy contacts the interior move the seat rearward until a maximum clearance of 5 mm (0.2 inches) is achieved or the seat is in the closest detent position that does not cause dummy contact. (S16.3.2.1.8)

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

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

- N/A Steering wheel was not repositioned.
- Original position achieved.

- Dummy contact. Clearance set at maximum of 5mm
  Measured Clearance
- Dummy Contact. Steering wheel set at nearest detent position.
  Steering wheel position ___ detent positions upward of original position.
  (Original position is position zero)

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

- Head Level Achieved. (Check all that apply)
  - Head leveled using the adjustable seat back
  - Head leveled using the neck bracket.
    Head Angle 0.3 degrees

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

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

- No interference
  - Pelvis moved forward the minimum amount so that it is not caught in the seat bight.
X 25. Verify the dummy abdomen is properly installed. (S16.3.2.1.9)
   Abdomen still seated properly into dummy
   Abdomen was adjusted because it was not seated properly into dummy

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

X 26.1 Head still level (Go to 27)
   26.2 Head level adjusted

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

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

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

X 27.1 Adjust telescoping mechanism.
   N/A No telescoping adjustment.
   Adjustment performed (fill in appropriate change)
   Steering wheel moved ____ detent positions in the forward direction.
   Steering wheel moved ____ mm in the forward direction.

X 27.2 Adjust tilt mechanism.
   N/A No tilt adjustment.
   No adjustment performed.
   Adjustment performed.
   Steering wheel moved ____ detent positions Upward/Downward. (circle one)
   Steering wheel moved ____ degrees Upward/Downward

X 27.3 Adjust Seat in the aft direction.
   No Adjustment performed.
   Seat moved aft ___ mm from original position.
   Seat moved aft ___ detent positions from the original position.

X 28. Measure and set the pelvic angle using the pelvic angle gage TE-2504. The pelvic
angle should be 20.0 degrees ± 2.5 degrees. If the pelvic angle cannot be set to the
specified range because the head will not be level, adjust the pelvis as closely as
possible to the angle range, but keep the head level.
   Pelvic angle set to 20.0 degrees ± 2.5 degrees.
   Pelvic angle of 20.0 degrees not achieved, the angular difference was minimized.
   Record the pelvic angle. 22.5 _______ degrees
29. Check the dummy for contact with the interior after completing adjustments.
   X No contact.
   __Dummy in contact with interior.
   ___Seat moved aft ___ mm from the previous position.
   ___Seat moved aft ___ detent positions from the previous position.

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

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

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

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

   32.2 If the vehicle has an adjustable accelerator pedal, move the pedals rearward until pedal contact occurs or the pedals reach the full rearward position. Not Applicable

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

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

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

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

      __ Pedal Contact not achieved. Heel set _____ mm from the floor pan.
33. Perform the following steps until either all steps are completed, or the foot contacts the accelerator pedal. Step 33.5 shall be completed in all cases.

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

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

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

33.4 Align the centerline of the foot in the same horizontal plane as the centerline of the accelerator pedal. Place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward.
33.5 Record foot position
   ___ Pedal Contact achieved. Contact occurred at step 32.1.
      ___ Heel set _____ mm from floor pan.

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

X 34. Driver's foot positioning, left foot.

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

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

X 34.3 Record foot position.
      ___ Heel does not contact floor pan.
      ___Foot placed on toe board.
      X Foot placed on floor pan.

X 35. Driver arm/hand positioning.

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

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

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

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

X 36. Adjustable head restraints
      ___ N/A, there is no head restraint adjustment

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

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

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

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

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

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

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

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

REMARKS:

I certify that I have read and performed each instruction.

Signature: __________________________  Date: 09/03/04
APPENDIX G
DUMMY POSITIONING PROCEDURES
FOR 5th% PASSENGER TEST DUMMY CONFORMING TO SUBPART O OF PART 572

Test Vehicle: 2005 Ford Escape
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

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<tr>
<th>IMPACT ANGLE:</th>
<th>Zero Degrees</th>
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<tbody>
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<td>BELTED DUMMIES (YES/NO):</td>
<td>No – Front Occupants Yes – Center Rear Passenger</td>
</tr>
<tr>
<td>TEST SPEED:</td>
<td>X 32 to 40 km/h</td>
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<tr>
<td>DRIVER DUMMY:</td>
<td>X 5th female</td>
</tr>
<tr>
<td>PASSENGER DUMMY:</td>
<td>X 5th female</td>
</tr>
</tbody>
</table>

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

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

X 1. Position the seat’s adjustable lumbar supports so that the lumbar supports are in the lowest, retracted or deflated adjustment position. (S16.2.10.1)
   X N/A – No lumbar adjustment

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

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

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

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

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

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

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

X 9. Set the angle between the legs and the thighs to 120 degrees. (S16.3.3.1.6)
X 10. Set the transverse distance between the centers of the front of the knees at 160 to 170 mm. (6.3 to 6.7 inches) Center the knee separation with respect to the longitudinal seat cushion marking that was determined in item 2.19 of Data Sheet 14. (S16.3.3.1.6) Record Knee Separation 167 mm

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

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

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

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

___Dummy contact. Clearance set at maximum of 5mm
Measured Clearance______________

___Dummy Contact. Seat set at nearest detent position.
Seat position ___ detent positions rearward of foremost (Foremost is position zero)

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

X Head Level Achieved.  (Check all that apply)
___Head leveled using the adjustable seat back  X Head leveled using the neck bracket.
Head Angle 0.0 degrees

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

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

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

18.1 Head still level (Go to 19)
   __ 18.2 Head level adjusted

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

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

19. Measure and set the pelvic angle using the pelvic angle gage TE-2504. The pelvic angle should be 20.0 degrees ± 2.5 degrees. If the pelvic angle cannot be set to the specified range because the head will not be level, adjust the pelvis as closely as possible to the angle range, but keep the head level.
   __ Pelvic angle set to 20.0 degrees ± 2.5 degrees.
   X Pelvic angle of 20.0 degrees not achieved, the angular difference was minimized.
   X Record the pelvic angle. ___ 25.3 ___ degrees

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

21. Verify the transverse instrument platform of the dummy head is level +/- 0.5 degrees. Use the lower neck bracket adjustment to level the head. If a level position cannot be achieved, minimize the angle. (S16.3.3.1.9, S16.3.3.1.10, and S16.3.3.1.11)
    X Head Level Achieved
    Head Angle ___ 0.0 ___ degrees
    __ Head Level NOT Achieved.
    Head Angle __________ degrees
Check the dummy to see if additional interior clearance is obtained, allowing the seat to be moved forward. (S16.3.3.1.12)

N/A Bench Seat

N/A Seat already at full forward position.
- Clearance unchanged. No adjustments required.
- Additional clearance available
  - Seat moved Forward ___ mm from the previous position.
  - Seat moved Forward ___ detent positions from the previous position.
  - Seat moved Forward, Full Forward position reached.

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

23.1 Place feet flat on the toe board; OR

23.2 If the feet cannot be placed flat on the toe board, set the feet perpendicular to the lower leg, and rest the heel as far forward on the floor pan as possible; OR

23.3 If the heels do not touch the floor pan, set the legs to vertical and set the feet parallel to the floor pan.

Passenger arm/hand positioning. (S16.3.3.3)

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

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

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

Adjustable head restraints

N/A, there is no head restraint adjustment

25.1 If the head restraint has an automatic adjustment, leave it where the system positions the restraint after the dummy is placed in the seat. (S16.3.4.1) Go to 26.

25.2 Adjust each head restraint vertically so that the horizontal plane determined in item 3 of Data Sheet 14 is aligned with the center of gravity (CG) of the dummy head. (S16.3.4.3)

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

N/A midpoint position attained in previous step

Headrest set at nearest detent below the head CG

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

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

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

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

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

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

REMARKS:

I certify that I have read and performed each instruction.

Signature: ____________________ Date: 09/03/04
DUMMY POSITIONING PROCEDURES
FOR REAR PASSENGER 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 – Front Occupants</td>
</tr>
<tr>
<td>TEST SPEED:</td>
<td>X 32 to 40 kmph</td>
</tr>
<tr>
<td>DRIVER DUMMY:</td>
<td>X 5\textsuperscript{th} female</td>
</tr>
<tr>
<td>PASSENGER DUMMY:</td>
<td>X 5\textsuperscript{th} female</td>
</tr>
</tbody>
</table>

\_1. If the seat is a bench seat for which there are no independent adjustments that can be made, Go to step 7.

\_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. (S20.1.8.2) __ 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. (S20.1.9.3) __ N/A – No independent fore-aft seat cushion adjustment

\_5. If the seat and/or seat cushion height is adjustable, put the seat in the full down height position. (S8.1.2) __ N/A – No seat height adjustment

\_6. Using only the controls that move the seat in the fore-aft direction, place the seat in the rearmost position. (S8.1.2)

\_7. 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 

\_8. 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

\_9. 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 

---
10. Place the dummy in the seat such that the midsagittal plane is vertical and coincides with the vertical longitudinal plane that passes through the SgRP and is parallel to the longitudinal centerline of the vehicle and the upper torso rests against the seat back.

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)

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

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

24.5° 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 and S10.4.2.1)

13.2 Is the head level within ± 0.5°? (S10.1)
   Yes, record the following, then go to 14.  No, go to 13.3
   horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
   vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
   pelvic angle (20° to 25°) (S10.4.2.2)

13.3 Adjust the pelvic angle. (S10.1)

13.4 Is the head level within ± 0.5°? (S10.1)
   Yes, record the following, then go to 14.  No, go to 13.5
   horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
   vertical inches from the point 0.25 below the determined H-point (0.5 inch max.) (S10.4.2.1)
   pelvic angle (20° to 25°) (S10.4.2.2)

13.5 Adjust the neck bracket of the dummy the minimum amount necessary from the non-adjusted "0" setting until the head is level within ± 0.5°. (S10.1) Record the following, then go to 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)
   24.5° 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)

15. Check only one of the following that applies:

- **Outboard seating position**
  Keeping the right thigh and leg in a vertical plane and the left thigh and leg in a vertical plane, place the feet flat on the floorpan and beneath the front seat as far as possible without front seat interference. If necessary, the distance between the knees can be changed in order to place the feet beneath the seat. Record new distance between the outboard knee clevis flange surfaces if knees have been repositioned. ______ measured distance (inches)

- **Center seating position**
  Keeping the left thigh and leg in a vertical plane, place the left foot flat on the floorpan on the left side of the transmission tunnel (if present). Keeping the right thigh and leg in a vertical plane, place the right foot flat on the floorpan on the right side of the transmission tunnel. If necessary, the distance between the knees can be changed in order to place the feet flat on the floor. If possible, the knees should remain as close to the distance as measured in #13 above. Record new distance between the outboard knee clevis flange surfaces if knees have been repositioned. ______ measured distance (inches)

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

17. Is the passenger seat belt used for this test?

- Yes, continue
- No, go to 18

17.1 Fasten the seat belt around the dummy.

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

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

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

- 4 pound load applied

17.5 Is the belt system equipped with a tension relieving device?

- Yes, continue
- No, go to 18

17.6 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.

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

19. 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)

20. 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)
I certify that I have read and performed each instruction.

Signature: [Signature] Date: 09/03/04
DATA SHEET 35

DUMMY MEASUREMENTS

Test Vehicle: 2005 Ford Escape
Test Program: FMVSS 208 Compliance
Test Technician: Eric Peschman

NHTSA No.: C50200
Test Date: 9/03/04

DUMMY MEASUREMENTS FOR FRONT SEAT OCCUPANTS

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

Vertical Longitudinal Planes

Test Vehicle: 2005 Ford Escape
Test Program: FMVSS 208 Compliance
Test Technician: Eric Peschman
NHTSA No.: C50200
Test Date: 9/03/04
DATA SHEET 35
DUMMY MEASUREMENTS

Test Vehicle: 2005 Ford Escape
Test Program: FMVSS 208 Compliance
Test Technician: Eric Peschman
NHTSA No.: C50200
Test Date: 9/03/04

TEST DUMMY POSITION MEASUREMENTS

<table>
<thead>
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<th>Code</th>
<th>Measurement Description</th>
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<th>Passenger SN 505</th>
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<td>Length (mm)</td>
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<tr>
<td></td>
<td></td>
<td>Angle (°)</td>
<td>Angle (°)</td>
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<tr>
<td>WA</td>
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<td>SWA</td>
<td>Steering Wheel Angle</td>
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<td>29.2</td>
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<td>SCA</td>
<td>Steering Column Angle</td>
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<td>Tibia Angle</td>
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<tr>
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<td>SK</td>
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<tr>
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<td>341</td>
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<td>H-Point to Door (Y)</td>
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<td>Arm to Door (Y)</td>
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<td>149</td>
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<tr>
<td>AA</td>
<td>Ankle to Ankle</td>
<td>284</td>
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TEST DUMMY POSITION MEASUREMENTS (S/N 401)

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<tr>
<th>Code</th>
<th>Measurement Description</th>
<th>Measurement Value</th>
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<tbody>
<tr>
<td>SA</td>
<td>Seat Back Angle</td>
<td>18.8 ° on seat back frame</td>
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<td>AD</td>
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Post test seat back angle = 5.6° on inboard side of seat back frame

Center Rear Passenger Dummy Target Information:

Horizontal distance from camera to dummy reference targets: 763 mm
Horizontal distance from camera to vehicle reference targets: 1570 mm
Distance between 1" reference targets: 76 mm
Reference targets were placed on inch tape for continuous reference.
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>
<th>Rear Passenger</th>
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</thead>
<tbody>
<tr>
<td>PBU - Top surface of reference to belt upper edge</td>
<td>mm</td>
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<td>N/A</td>
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<tr>
<td>PBL - To surface of reference to belt lower edge</td>
<td>mm</td>
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<td>N/A</td>
<td>185</td>
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### CRASH TEST

**Test Vehicle:** Ford Escape  
**Test Program:** FMVSS 208 Compliance  
**Test Technician:** Eric Peschman  
**NHTSA No.:** C50200  
**Test Date:** 6/03/04

#### IMPACT ANGLE: Zero Degrees

#### BELTED DUMMIES (YES/NO):
- No – Front Occupants
- Yes – Center Rear Passenger

#### TEST SPEED:
- **X** 32 to 40 kmph
- **X** 0 to 48 kmph
- **X** 0 to 56 kmph

#### DRIVER DUMMY:
- **X** 5th female
- **X** 50th Male

#### PASSENGER DUMMY:
- **X** 5th female
- **X** 50th Male Ctr Rear

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. N/A, not a convertible
6. Tires inflated to pressure on tire placard or if it does not have a tire placard because it is not a passenger car, then inflated to the tire pressure specified in the owner information.
   - 220 kpa front left tire
   - 220 kpa front right tire
   - 220 kpa rear left tire
   - 220 kpa rear right tire
7. Time zero contacts on barrier in place.
8. Pre test zero and shunt calibration adjustments performed and recorded
9. Dummy temperature meets requirements of section 12.2 of the test procedure.
10. Vehicle hood closed and latched
11. Transmission placed in neutral
12. Parking brake off
13. 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 _129_ cm
18. Describe whether the doors open after the test and what method is used to open the doors.
   - **X** Left Front Door: Door remained closed and latched; Door opened without tools
   - **X** Right Front Door: Door remained closed and latched; Door opened without tools
   - **X** Left Rear Door: Door remained closed and latched; Door opened without tools
X Right Rear Door: Door remained closed and latched; Door opened without tools

X 19. Describe the contact points of the dummy with the interior of the vehicle.
X Driver Dummy: Head to Windshield, Air Bag and Sunvisor; Chest and Abdomen to Steering Wheel Rim; Knees to Knee Bolster
X Passenger Dummy: Head to Air Bag; Chest and Abdomen to Air Bag; Knees to Glove Box
X Center Rear Passenger Dummy: Head to Headrest

REMARKS:

I certify that I have read and performed each instruction.

Signature: ___________________  Date: 09/03/04
### Accident Investigation Division Data

**Test Vehicle:** 2005 Ford Escape  
**Test Program:** FMVSS 208 Compliance  
**Test Technician:** Eric Peschman  
**NHTSA No.:** C50200  
**Test Date:** 9/03/04

<table>
<thead>
<tr>
<th>IMPACT ANGLE:</th>
<th>Zero Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>BELTED DUMMIES (YES/NO):</td>
<td>No – Front Occupants  Yes – Center Rear Passenger</td>
</tr>
<tr>
<td>TEST SPEED:</td>
<td>X 32 to 40 kmph  0 to 48 kmph  0 to 56 kmph</td>
</tr>
<tr>
<td>DRIVER DUMMY:</td>
<td>X 5th female  50th Male</td>
</tr>
<tr>
<td>PASSENGER DUMMY:</td>
<td>X 5th female  X 50th Male Ctr Rear</td>
</tr>
</tbody>
</table>

| Vehicle Year/Make/Model/Body Style: | 2005 Ford Escape  MPV |
| VIN: | 1FMYU02Z45KA10086 |
| Wheelbase: | 2620 mm |
| Build Date: | 02/04 |
| Vehicle Size Category: | 3 |
| Test Weight: | 1633.4 kg |
| Front Overhang: | 826 mm |
| Overall Width: | 1743 mm |
| Overall Length Center: | 4407 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: | 91 ms |
| Velocity Change: | 43.2 kmph |
CRUSH PROFILE

Collision Deformation Classification: 12FDEW6
Midpoint of Damage: Vehicle Longitudinal Centerline
Damage Region Length (mm): 1530
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>4245</td>
<td>4141</td>
<td>104</td>
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<tr>
<td>C2</td>
<td>Crush zone 2 at left side</td>
<td>mm</td>
<td>4354</td>
<td>4191</td>
<td>163</td>
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<tr>
<td>C3</td>
<td>Crush zone 3 at left side</td>
<td>mm</td>
<td>4397</td>
<td>4183</td>
<td>214</td>
</tr>
<tr>
<td>C4</td>
<td>Crush zone 4 at right side</td>
<td>mm</td>
<td>4397</td>
<td>4115</td>
<td>282</td>
</tr>
<tr>
<td>C5</td>
<td>Crush zone 5 at right side</td>
<td>mm</td>
<td>4356</td>
<td>4052</td>
<td>304</td>
</tr>
<tr>
<td>C6</td>
<td>Crush zone 6 at right side</td>
<td>mm</td>
<td>4247</td>
<td>4109</td>
<td>138</td>
</tr>
</tbody>
</table>

REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature]

Date: 09/03/04
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): 18 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>591</td>
<td>591</td>
<td>100%</td>
</tr>
<tr>
<td>B</td>
<td>710</td>
<td>710</td>
<td>100%</td>
</tr>
<tr>
<td>C</td>
<td>730</td>
<td>730</td>
<td>100%</td>
</tr>
<tr>
<td>Total</td>
<td>2031</td>
<td>2031</td>
<td>100%</td>
</tr>
<tr>
<td>D</td>
<td>591</td>
<td>591</td>
<td>100%</td>
</tr>
<tr>
<td>E</td>
<td>710</td>
<td>710</td>
<td>100%</td>
</tr>
<tr>
<td>F</td>
<td>730</td>
<td>730</td>
<td>100%</td>
</tr>
<tr>
<td>Total</td>
<td>2031</td>
<td>2031</td>
<td>100%</td>
</tr>
</tbody>
</table>

Indicate area of mounting failure. NONE

### FRONT VIEW OF WINDSHIELD

**INDICATE WIDTH OF MOLDING**

![Diagram of windshield dimensions](image)

### REMARKS:

I certify that I have read and performed each instruction.

Signature: [Signature Image]

Date: 09/03/04
DATA SHEET 40
WINDSHIELD ZONE INTRUSION (FMVSS 219)

Test Vehicle: 2005 Ford Escape  
Test Program: FMVSS 208 Compliance  
Test Technician: Clark Subrt  
NHTSA No.: C50200  
Test Date: 9/03/04

| IMPACT ANGLE: | Zero Degrees |
| BELTED DUMMIES (YES/NO): | No – Front Occupants | Yes – Center Rear Passenger |
| TEST SPEED: | X 32 to 40 kmph | 0 to 48 kmph | 0 to 56 kmph |
| DRIVER DUMMY: | X 5’th female | 50’th Male |
| PASSENGER DUMMY: | X 5’th female | X 50’th Male Ctr Rear |

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

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

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

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

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

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Units</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>mm</td>
<td>1182</td>
</tr>
<tr>
<td>B</td>
<td>mm</td>
<td>472</td>
</tr>
<tr>
<td>C</td>
<td>mm</td>
<td>1460</td>
</tr>
<tr>
<td>D</td>
<td>mm</td>
<td>710</td>
</tr>
<tr>
<td>E</td>
<td>mm</td>
<td>502</td>
</tr>
<tr>
<td>F</td>
<td>mm</td>
<td>523</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: _____________________ Date:  09/03/04
DATA SHEET 41
FUEL SYSTEM INTEGRITY (FMVSS 301)

Test Vehicle: 2005 Ford Escape  NHTSA No.: C50200
Test Program: FMVSS 208 Compliance  Test Date: 9/03/04
Test Technician: Eric Peschman

TYPE OF IMPACT: 25 mph Unbelted Flat Frontal

Stoddard Solvent Spillage Measurements

A. From impact until vehicle motion ceases: 0.0 grams
   (Maximum Allowable = 28 grams)
B. For the 5 minute period after motion ceases: 0.0 grams
   (Maximum Allowable = 142 grams)
C. For the following 25 minutes: 0.0 grams
   (Maximum Allowable = 28 grams/minute)
D. Spillage: NONE

REMARKS: NO SPILLAGE
DATA SHEET NO. 41
FMVSS 301 STATIC ROLLOVER DATA

Test Vehicle: 2005 Ford Escape
Test Program: FMVSS 208 Compliance
NHTSA No.: C50200
Test Date: 9/03/04

1. The specified fixture rollover rate for each 90° of rotation is 60 to 180 seconds.
2. The position hold time at each position is 300 seconds (minimum).
3. Details of Stoddard Solvent spillage locations: None

<table>
<thead>
<tr>
<th>Test Phase</th>
<th>Rotation Time (sec.)</th>
<th>Hold Time (sec.)</th>
<th>Spillage (grams)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0° to 90°</td>
<td>170</td>
<td>300</td>
<td>0.0</td>
</tr>
<tr>
<td>90° to 180°</td>
<td>151</td>
<td>300</td>
<td>0.0</td>
</tr>
<tr>
<td>180° to 270°</td>
<td>129</td>
<td>300</td>
<td>0.0</td>
</tr>
<tr>
<td>270° to 360°</td>
<td>158</td>
<td>300</td>
<td>0.0</td>
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</table>
APPENDIX A
CRASH TEST DATA
<table>
<thead>
<tr>
<th>Figure No.</th>
<th>Description</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Driver Head X Acceleration vs. Time</td>
<td>A-1</td>
</tr>
<tr>
<td>2</td>
<td>Driver Head Y Acceleration vs. Time</td>
<td>A-1</td>
</tr>
<tr>
<td>3</td>
<td>Driver Head Z Acceleration vs. Time</td>
<td>A-1</td>
</tr>
<tr>
<td>4</td>
<td>Driver Head Resultant Acceleration vs. Time</td>
<td>A-1</td>
</tr>
<tr>
<td>5</td>
<td>Driver Head X Velocity vs. Time</td>
<td>A-2</td>
</tr>
<tr>
<td>6</td>
<td>Driver Head Y Velocity vs. Time</td>
<td>A-2</td>
</tr>
<tr>
<td>7</td>
<td>Driver Head Z Velocity vs. Time</td>
<td>A-2</td>
</tr>
<tr>
<td>8</td>
<td>Driver Neck Force X vs. Time</td>
<td>A-3</td>
</tr>
<tr>
<td>9</td>
<td>Driver Neck Force Y vs. Time</td>
<td>A-3</td>
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<tr>
<td>10</td>
<td>Driver Neck Force Z vs. Time</td>
<td>A-3</td>
</tr>
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<td>11</td>
<td>Driver Neck Force Resultant vs. Time</td>
<td>A-3</td>
</tr>
<tr>
<td>12</td>
<td>Driver Neck Moment X vs. Time</td>
<td>A-4</td>
</tr>
<tr>
<td>13</td>
<td>Driver Neck Moment Y vs. Time</td>
<td>A-4</td>
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<td>14</td>
<td>Driver Neck Moment Z vs. Time</td>
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<td>15</td>
<td>Driver Neck Moment Resultant vs. Time</td>
<td>A-4</td>
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<tr>
<td>16</td>
<td>Driver Chest X Acceleration vs. Time</td>
<td>A-5</td>
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<td>17</td>
<td>Driver Chest Y Acceleration vs. Time</td>
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<tr>
<td>18</td>
<td>Driver Chest Z Acceleration vs. Time</td>
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<tr>
<td>19</td>
<td>Driver Chest Resultant Acceleration vs. Time</td>
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<tr>
<td>21</td>
<td>Driver Chest Y Velocity vs. Time</td>
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<td>22</td>
<td>Driver Chest Z Velocity vs. Time</td>
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<td>23</td>
<td>Driver Chest Displacement vs. Time</td>
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<td>24</td>
<td>Driver Left Femur Force vs. Time</td>
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<td>25</td>
<td>Driver Right Femur Force vs. Time</td>
<td>A-7</td>
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<td>26</td>
<td>Passenger Head X Acceleration vs. Time</td>
<td>A-8</td>
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<tr>
<td>27</td>
<td>Passenger Head Y Acceleration vs. Time</td>
<td>A-8</td>
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<td>Passenger Head Z Acceleration vs. Time</td>
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<td>Passenger Head X Velocity vs. Time</td>
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<td>CRP Neck Moment X vs. Time</td>
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<td>CRP Neck Moment Y vs. Time</td>
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<td>CRP Neck Moment Z vs. Time</td>
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<td>CPR Chest Z Velocity vs. Time</td>
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<td>CRP Chest Displacement vs. Time</td>
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<td>CRP Right Femur Force vs. Time</td>
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<td>75</td>
<td>CRP Left Femur Force vs. Time</td>
<td>A-21</td>
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<td>76</td>
<td>CRP Shoulder Belt Force vs. Time</td>
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<td>CRP Lap Belt Force vs. Time</td>
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<td>CRP Belt Spoolout vs. Time</td>
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<td>MHD Left vs. Time</td>
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<td>Driver Nij (N_{TF}) vs. Time</td>
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<td>Driver Nij (N_{TE}) vs. Time</td>
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<td>Center Nij (N_{CF}) vs. Time</td>
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<td>Center Nij (N_{CE}) vs. Time</td>
<td>A-25</td>
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<td>92</td>
<td>Driver Occipital Condyle Moment vs. Time</td>
<td>A-26</td>
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<tr>
<td>Figure No.</td>
<td>Description</td>
<td>Page No.</td>
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<tr>
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<td>93</td>
<td>Passenger Occipital Condyle Moment vs. Time</td>
<td>A-26</td>
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<td>94</td>
<td>Center Occipital Condyle Moment vs. Time</td>
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<tr>
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<td>Left Rear Seat Crossmember X Acceleration vs. Time</td>
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<td>96</td>
<td>Left Rear Seat Crossmember X Velocity vs. Time</td>
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<td>97</td>
<td>Right Rear Seat Crossmember X Acceleration vs. Time</td>
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<td>Right Rear Seat Crossmember X Velocity vs. Time</td>
<td>A-27</td>
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<td>Top of Engine X Acceleration vs. Time</td>
<td>A-28</td>
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<tr>
<td>100</td>
<td>Top of Engine X Velocity vs. Time</td>
<td>A-28</td>
</tr>
<tr>
<td>101</td>
<td>Bottom of Engine X Acceleration vs. Time</td>
<td>A-28</td>
</tr>
<tr>
<td>102</td>
<td>Bottom of Engine X Velocity vs. Time</td>
<td>A-28</td>
</tr>
<tr>
<td>103</td>
<td>Left Brake Caliper X Acceleration vs. Time</td>
<td>A-29</td>
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<tr>
<td>104</td>
<td>Left Brake Caliper X Velocity vs. Time</td>
<td>A-29</td>
</tr>
<tr>
<td>105</td>
<td>Right Brake Caliper X Acceleration vs. Time</td>
<td>A-29</td>
</tr>
<tr>
<td>106</td>
<td>Right Brake Caliper X Velocity vs. Time</td>
<td>A-29</td>
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25MPH FRONTAL UNBELTED
2005 FORD ESCAPE (C50200)

Test Date: 09/03/04
Speed: 24.8 mph (39.9 km/h)

DRIVER HEAD X (G's) vs TIME (ms)
Max: 9.2 G's
Tmax: 209.2 ms
Min: -32.2 G's
Tmin: 67.4 ms
CFC 1000

DRIVER HEAD Y (G's) vs TIME (ms)
Max: 7.6 G's
Tmax: 105.1 ms
Min: -1.7 G's
Tmin: 34.3 ms
CFC 1000

DRIVER HEAD Z (G's) vs TIME (ms)
Max: 12.9 G's
Tmax: 82.2 ms
Min: -4.9 G's
Tmin: 44.3 ms
CFC 1000

DRIVER HEAD Resultant (G's) vs TIME (ms)
Max: 33.2 G's
Tmax: 67.4 ms
Min: 0.0 G's
Tmin: 0.0 ms
CFC 1000
25MPH FRONTAL UNBELTED
2005 FORD ESCAPE (C50200)

Test Date: 09/03/04
Speed: 24.8 mph (39.9 km/h)

DRIVER HEAD X Velocity (kph) vs TIME (ms)

Max: 40.8 kph
Tmax: 49.7 ms
Min: -10.6 kph
Tmin: 300.0 ms
CFC 180

DRIVER HEAD Y Velocity (kph) vs TIME (ms)

Max: 15.1 kph
Tmax: 218.0 ms
Min: -0.1 kph
Tmin: 36.6 ms
CFC 180

DRIVER HEAD Z Velocity (kph) vs TIME (ms)

Max: 24.5 kph
Tmax: 300.0 ms
Min: -1.6 kph
Tmin: 48.4 ms
CFC 180
Test Date: 09/03/04
Speed: 24.8 mph (39.9 km/h)

2005 FORD ESCAPE (C50200)

Max: 405.2 N
Tmax: 55.3 ms
Min: -140.3 N
Tmin: 132.2 ms
CFC 1000

Max: 109.7 N
Tmax: 118.4 ms
Min: -124.0 N
Tmin: 84.9 ms
CFC 1000

Max: 959.5 N
Tmax: 66.2 ms
Min: -446.4 N
Tmin: 212.1 ms
CFC 1000

Max: 999.8 N
Tmax: 82.2 ms
Min: 0.3 N
Tmin: 0.0 ms
CFC 1000
25MPH FRONTAL UNBELTED
2005 FORD ESCAPE (C50200)

Test Date: 09/03/04
Speed: 24.8 mph (39.9 km/h)

Max: 13.1 Nm
Tmax: 115.7 ms
Min: -5.4 Nm
Tmin: 230.5 ms
CFC 600

Max: 27.2 Nm
Tmax: 56.4 ms
Min: -11.3 Nm
Tmin: 71.0 ms
CFC 600

Max: 2.9 Nm
Tmax: 55.8 ms
Min: -8.5 Nm
Tmin: 116.6 ms
CFC 600

Max: 27.8 Nm
Tmax: 56.7 ms
Min: 0.0 Nm
Tmin: 0.0 ms
CFC 600
Test Date: 09/03/04
Speed: 24.8 mph (39.9 km/h)

2005 FORD ESCAPE (C50200)

MAX: 2.2 G's
Tmax: 115.7 ms
Min: -42.3 G's
Tmin: 64.8 ms
CFC 180

MAX: 3.8 G's
Tmax: 63.1 ms
Min: -4.6 G's
Tmin: 69.8 ms
CFC 180

MAX: 9.2 G's
Tmax: 69.8 ms
Min: -5.5 G's
Tmin: 44.6 ms
CFC 180

MAX: 42.9 G's
Tmax: 64.8 ms
Min: 0.0 G's
Tmin: 0.0 ms
CFC 180
25MPH FRONTAL UNBELTED
2005 FORD ESCAPE (C50200)

Test Date: 09/03/04
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: -7.8 kph
- Tmin: 107.3 ms
- CFC 180

**DRIVER CHEST Y Velocity (kph) vs TIME (ms)**

- Max: 1.3 kph
- Tmax: 300.0 ms
- Min: -1.0 kph
- Tmin: 51.5 ms
- CFC 180

**DRIVER CHEST Z Velocity (kph) vs TIME (ms)**

- Max: 10.6 kph
- Tmax: 300.0 ms
- Min: -3.4 kph
- Tmin: 57.6 ms
- CFC 180

**DRIVER CHEST DISPLACEMENT (mm) vs TIME (ms)**

- Max: 1.5 mm
- Tmax: 44.9 ms
- Min: -20.3 mm
- Tmin: 69.8 ms
- CFC 600
PASSENGER HEAD X (G's) vs TIME (ms)
Max: 2.8 G's
Tmax: 47.0 ms
Min: -27.2 G's
Tmin: 78.7 ms
CFC 1000

PASSENGER HEAD Y (G's) vs TIME (ms)
Max: 12.5 G's
Tmax: 42.1 ms
Min: -12.0 G's
Tmin: 53.2 ms
CFC 1000

PASSENGER HEAD Z (G's) vs TIME (ms)
Max: 9.5 G's
Tmax: 59.1 ms
Min: -9.3 G's
Tmin: 110.7 ms
CFC 1000

PASSENGER HEAD Resultant (G's) vs TIME (ms)
Max: 27.7 G's
Tmax: 78.7 ms
Min: 0.0 G's
Tmin: 22.2 ms
CFC 1000
PASSENGER HEAD X Velocity (kph) vs TIME (ms)

Max: 40.0 kph
Tmax: 24.4 ms
Min: -12.0 kph
Tmin: 248.6 ms
CFC 180

PASSENGER HEAD Y Velocity (kph) vs TIME (ms)

Max: 1.3 kph
Tmax: 47.9 ms
Min: -7.8 kph
Tmin: 242.9 ms
CFC 180

PASSENGER HEAD Z Velocity (kph) vs TIME (ms)

Max: 3.6 kph
Tmax: 300.0 ms
Min: -6.2 kph
Tmin: 133.6 ms
CFC 180
25MPH FRONTAL UNBELTED
2005 FORD ESCAPE (C50200)

Test Date: 09/03/04
Speed: 24.8 mph (39.9 km/h)

PASSENGER NECK MX (Nm) vs TIME (ms)
Max: 14.6 Nm
Tmax: 82.1 ms
Min: -5.8 Nm
Tmin: 180.3 ms
CFC 600

PASSENGER NECK MY (Nm) vs TIME (ms)
Max: 86.9 Nm
Tmax: 70.7 ms
Min: -4.1 Nm
Tmin: 293.8 ms
CFC 600

PASSENGER NECK MZ (Nm) vs TIME (ms)
Max: 21.4 Nm
Tmax: 115.7 ms
Min: -7.7 Nm
Tmin: 195.8 ms
CFC 600

PASSENGER NECK MResultant (Nm) vs TIME (ms)
Max: 87.5 Nm
Tmax: 70.7 ms
Min: 0.0 Nm
Tmin: 11.1 ms
CFC 600
25MPH FRONTAL UNBELTED
2005 FORD ESCAPE (C50200)

Test Date: 09/03/04
Speed: 24.8 mph (39.9 km/h)

**PASSENGER CHEST X (G's) vs TIME (ms)**
- Max: 3.6 G's
- Tmax: 108.7 ms
- Min: -27.2 G's
- Tmin: 71.6 ms
- CFC 180

**PASSENGER CHEST Y (G's) vs TIME (ms)**
- Max: 4.7 G's
- Tmax: 60.7 ms
- Min: -4.9 G's
- Tmin: 107.4 ms
- CFC 180

**PASSENGER CHEST Z (G's) vs TIME (ms)**
- Max: 8.8 G's
- Tmax: 86.4 ms
- Min: -4.3 G's
- Tmin: 52.3 ms
- CFC 180

**PASSENGER CHEST Resultant (G's) vs TIME (ms)**
- Max: 27.5 G's
- Tmax: 71.7 ms
- Min: 0.1 G's
- Tmin: 0.0 ms
- CFC 180
25MPH FRONTAL UNBELTED
2005 FORD ESCAPE (C50200)

Test Date: 09/03/04
Speed: 24.8 mph (39.9 km/h)

PASSENGER CHEST X Velocity (kph) vs TIME (ms)
Max: 39.9 kph
Tmax: 0.0 ms
Min: -9.5 kph
Tmin: 160.8 ms
CFC 180

PASSENGER CHEST Y Velocity (kph) vs TIME (ms)
Max: 1.6 kph
Tmax: 71.3 ms
Min: -2.3 kph
Tmin: 173.3 ms
CFC 180

PASSENGER CHEST Z Velocity (kph) vs TIME (ms)
Max: 14.3 kph
Tmax: 300.0 ms
Min: -2.2 kph
Tmin: 59.4 ms
CFC 180

PASSENGER CHEST DISPLACEMENT (mm) vs TIME (ms)
Max: 0.6 mm
Tmax: 43.0 ms
Min: -3.2 mm
Tmin: 70.9 ms
CFC 600
25MPH FRONTAL UNBELTED
2005 FORD ESCAPE (C50200)
Test Date: 09/03/04
Speed: 24.8 mph (39.9 km/h)

PASSENGER LEFT FEMUR (N) vs TIME (ms)
Max: 123.0 N
Tmax: 28.0 ms
Min: -3953.6 N
Tmin: 58.1 ms
CFC 600

PASSENGER RIGHT FEMUR (N) vs TIME (ms)
Max: 188.3 N
Tmax: 22.8 ms
Min: -3344.5 N
Tmin: 53.5 ms
CFC 600
Speed: 24.8 mph (39.9 km/h)

Test Date: 09/03/04

2005 FORD ESCAPE (C50200)
Test Date: 09/03/04

2005 FORD ESCAPE (C50200)

Speed: 24.8 mph (39.9 km/h)
Test Date: 09/03/04
Speed: 24.8 mph (39.9 km/h)

2005 FORD ESCAPE (C50200)

CRP NECK MX (Nm) vs TIME (ms)
Max: 23.1 Nm
Tmax: 123.3 ms
Min: -15.6 Nm
Tmin: 111.2 ms
CFC 600

CRP NECK MY (Nm) vs TIME (ms)
Max: 82.0 Nm
Tmax: 121.0 ms
Min: -44.0 Nm
Tmin: 74.8 ms
CFC 600

CRP NECK MZ (Nm) vs TIME (ms)
Max: 8.9 Nm
Tmax: 239.5 ms
Min: -9.8 Nm
Tmin: 130.2 ms
CFC 600

CRP NECK MResultant (Nm) vs TIME (ms)
Max: 85.0 Nm
Tmax: 121.3 ms
Min: 0.0 Nm
Tmin: 0.0 ms
CFC 600
25MPH FRONTAL UNBELTED
2005 FORD ESCAPE (C50200)

Test Date: 09/03/04
Speed: 24.8 mph (39.9 km/h)

CRP CHEST X (G's) vs TIME (ms)
Max: 4.0 G's
Tmax: 277.0 ms
Min: -37.5 G's
Tmin: 70.3 ms
CFC 180

CRP CHEST Y (G's) vs TIME (ms)
Max: 7.0 G's
Tmax: 80.0 ms
Min: -1.8 G's
Tmin: 56.6 ms
CFC 180

CRP CHEST Z (G's) vs TIME (ms)
Max: 8.9 G's
Tmax: 63.8 ms
Min: -7.9 G's
Tmin: 95.6 ms
CFC 180

CRP CHEST Resultant (G's) vs TIME (ms)
Max: 38.4 G's
Tmax: 68.1 ms
Min: 0.0 G's
Tmin: 0.0 ms
CFC 180
CRP CHEST X Velocity (kph) vs TIME (ms)

Max: 39.9 kph
Tmax: 0.0 ms
Min: -15.3 kph
Tmin: 137.0 ms
CFC 180

CRP CHEST Y Velocity (kph) vs TIME (ms)

Max: 7.6 kph
Tmax: 286.3 ms
Min: -0.4 kph
Tmin: 58.6 ms
CFC 180

CRP CHEST Z Velocity (kph) vs TIME (ms)

Max: 10.2 kph
Tmax: 297.9 ms
Min: -1.5 kph
Tmin: 50.2 ms
CFC 180

CRP CHEST DISPLACEMENT (mm) vs TIME (ms)

Max: 0.0 mm
Tmax: 5.6 ms
Min: -28.9 mm
Tmin: 109.4 ms
CFC 600
25MPH FRONTAL UNBELTED
2005 FORD ESCAPE (C50200)
Test Date: 09/03/04
Speed: 24.8 mph (39.9 km/h)

CRP RIGHT FEMUR (N) vs TIME (ms)
Max: 1345.3 N
Tmax: 59.7 ms
Min: -63.6 N
Tmin: 256.9 ms
CFC 600

CRP LEFT FEMUR (N) vs TIME (ms)
Max: 1685.4 N
Tmax: 75.0 ms
Min: -483.0 N
Tmin: 60.1 ms
CFC 600

CRP SHOULDER BELT (N) vs TIME (ms)
Max: 4181.8 N
Tmax: 105.9 ms
Min: -12.4 N
Tmin: 205.9 ms
CFC 60

CRP LAP BELT (N) vs TIME (ms)
Max: 8875.2 N
Tmax: 73.6 ms
Min: -0.8 N
Tmin: 10.1 ms
CFC 60
25MPH FRONTAL UNBELTED
2005 FORD ESCAPE (C50200)
Test Date: 09/03/04
Speed: 24.8 mph (39.9 km/h)

CRP BELT SP (mm) vs TIME (ms)
Max: 87.6 mm
Tmax: 115.8 ms
Min: -61.3 mm
Tmin: 206.3 ms
CFC 1000

MHD LEFT (rad/sec) vs TIME (ms)
Max: 1.0 rad/sec
Tmax: 66.2 ms
Min: -0.4 rad/sec
Tmin: 66.5 ms
CFC 1000
25MPH FRONTAL UNBELTED
2005 FORD ESCAPE (C50200)

Test Date: 09/03/04
Speed: 24.8 mph (39.9 km/h)

Pass. nij (NTF) () vs TIME (ms)

Max: 0.2
Tmax: 55.8 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600

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

Max: 0.1
Tmax: 158.0 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600

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

Max: 0.6
Tmax: 69.4 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600

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

Max: 0.2
Tmax: 110.3 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600
25MPH FRONTAL UNBELTED
2005 FORD ESCAPE (C50200)

Test Date: 09/03/04
Speed: 24.8 mph (39.9 km/h)

Center nij (NTF) () vs TIME (ms)
Max: 0.5
Tmax: 118.1 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600

Center nij (NTE) () vs TIME (ms)
Max: 0.4
Tmax: 74.2 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600

Center nij (NCF) () vs TIME (ms)
Max: 0.0
Tmax: 24.1 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600

Center nij (NCE) () vs TIME (ms)
Max: 0.0
Tmax: 46.4 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600
25MPH FRONTAL UNBELTED
2005 FORD ESCAPE(C50200)

Test Date: 09/03/04
Speed: 24.8 mph (39.9 km/h)

Dr. Occipital Condyle Moment (Nm) vs TIME (ms)
Max: 20.1 Nm
Tmax: 56.4 ms
Min: -12.6 Nm
Tmin: 70.5 ms
CFC 600

Pass. Occipital Condyle Moment (Nm) vs TIME (ms)
Max: 65.1 Nm
Tmax: 70.8 ms
Min: -5.9 Nm
Tmin: 110.3 ms
CFC 600

Center Occipital Condyle Moment (Nm) vs TIME (ms)
Max: 112.8 Nm
Tmax: 121.5 ms
Min: -32.9 Nm
Tmin: 74.6 ms
CFC 600
25MPH FRONTAL UNBELTED
2005 FORD ESCAPE (C50200)

Test Date: 09/03/04
Speed: 24.8 mph (39.9 km/h)

LEFT REAR SEAT CROSSMEMBER X (G's) vs TIME (ms)
Max: 2.2 G's
Tmax: 106.6 ms
Min: -30.2 G's
Tmin: 51.4 ms
CFC 60

LEFT REAR SEAT CROSSMEMBER X Velocity (kph) vs TIME (ms)
Max: 39.9 kph
Tmax: 5.9 ms
Min: -3.1 kph
Tmin: 89.2 ms
CFC 180

RIGHT REAR SEAT CROSSMEMBER X (G's) vs TIME (ms)
Max: 2.6 G's
Tmax: 107.7 ms
Min: -30.7 G's
Tmin: 53.1 ms
CFC 60

RIGHT REAR SEAT CROSSMEMBER X Velocity (kph) vs TIME (ms)
Max: 39.9 kph
Tmax: 0.0 ms
Min: -3.5 kph
Tmin: 92.5 ms
CFC 180
25MPH FRONTAL UNBELTED
2005 FORD ESCAPE (C50200)

Test Date: 09/03/04
Speed: 24.8 mph (39.9 km/h)

TOP OF ENGINE X (G's) vs TIME (ms)
- Max: 28.2 G's
- Tmax: 54.7 ms
- Min: -72.0 G's
- Tmin: 20.5 ms
- CFC 60

TOP OF ENGINE X Velocity (kph) vs TIME (ms)
- Max: 39.9 kph
- Tmax: 0.0 ms
- Min: -4.4 kph
- Tmin: 72.9 ms
- CFC 180

BOTTOM OF ENGINE X (G's) vs TIME (ms)
- Max: 39.5 G's
- Tmax: 48.0 ms
- Min: -86.4 G's
- Tmin: 31.8 ms
- CFC 60

BOTTOM OF ENGINE X Velocity (kph) vs TIME (ms)
- Max: 39.9 kph
- Tmax: 0.0 ms
- Min: -5.6 kph
- Tmin: 40.1 ms
- CFC 180
25MPH FRONTAL UNBELTED
2005 FORD ESCAPE (C50200)
Test Date: 09/03/04
Speed: 24.8 mph (39.9 km/h)

LEFT BRAKE CALIPER X (G's) vs TIME (ms)
Max: 29.6 G's
Tmax: 300.0 ms
Min: -46.1 G's
Tmin: 43.4 ms
CFC 60

LEFT BRAKE CALIPER X Velocity (kph) vs TIME (ms)
Max: 40.0 kph
Tmax: 0.0 ms
Min: -4.8 kph
Tmin: 94.6 ms
CFC 180

RIGHT BRAKE CALIPER X (G's) vs TIME (ms)
Max: 10.5 G's
Tmax: 84.1 ms
Min: -45.0 G's
Tmin: 49.9 ms
CFC 60

RIGHT BRAKE CALIPER X Velocity (kph) vs TIME (ms)
Max: 40.0 kph
Tmax: 5.6 ms
Min: -5.4 kph
Tmin: 73.1 ms
CFC 180
25MPH FRONTAL UNBELTED
2005 FORD ESCAPE (C50200)

Test Date: 09/03/04
Speed: 24.8 mph (39.9 km/h)

INSTRUMENT PANEL X (G's) vs TIME (ms)
Max: 20.8 G's
Tmax: 62.7 ms
Min: -52.5 G's
Tmin: 55.9 ms
CFC 60

INSTRUMENT PANEL X Velocity (kph) vs TIME (ms)
Max: 39.9 kph
Tmax: 0.0 ms
Min: 1.8 kph
Tmin: 60.3 ms
CFC 180

TRUNK Z (G's) vs TIME (ms)
Max: 4.0 G's
Tmax: 30.0 ms
Min: -7.6 G's
Tmin: 35.1 ms
CFC 60

TRUNK Z Velocity (kph) vs TIME (ms)
Max: 1.1 kph
Tmax: 18.9 ms
Min: -1.8 kph
Tmin: 39.9 ms
CFC 180

No Valid Data After Approximately 90 msec.
25MPH FRONTAL UNBELTED
2005 FORD ESCAPE (C50200)
Test Date: 09/03/04
Speed: 24.8 mph (39.9 km/h)

BARRIER FORCE - UPPER LEFT (kn) vs TIME (ms)
Max: 69.9 kn
Tmax: 50.3 ms
Min: -0.8 kn
Tmin: 0.0 ms
CFC 60

BARRIER FORCE - UPPER CENTER (kn) vs TIME (ms)
Max: 110.1 kn
Tmax: 35.3 ms
Min: -1.4 kn
Tmin: 162.2 ms
CFC 60

BARRIER FORCE - UPPER RIGHT (kn) vs TIME (ms)
Max: 95.8 kn
Tmax: 29.1 ms
Min: -0.4 kn
Tmin: 5.0 ms
CFC 60
25MPH FRONTAL UNBELTED
2005 FORD ESCAPE (C50200)

Test Date: 09/03/04
Speed: 24.8 mph (39.9 km/h)

BARRIER FORCE - LOWER LEFT (kn) vs TIME (ms)
Max: 69.3 kn
Tmax: 17.3 ms
Min: -1.3 kn
Tmin: 6.0 ms
CFC 60

BARRIER FORCE - LOWER CENTER (kn) vs TIME (ms)
Max: 101.4 kn
Tmax: 33.6 ms
Min: -0.2 kn
Tmin: 0.2 ms
CFC 60

BARRIER FORCE - LOWER RIGHT (kn) vs TIME (ms)
Max: 88.7 kn
Tmax: 17.7 ms
Min: -0.4 kn
Tmin: 4.9 ms
CFC 60
25MPH FRONTAL UNBELTED
2005 FORD ESCAPE (C50200)

Test Date: 09/03/04
Speed: 24.8 mph (39.9 km/h)

BARRIER FORCE - SUM LEFT (kn) vs TIME (ms)
Max: 110.3 kn
Tmax: 17.5 ms
Min: -1.2 kn
Tmin: 5.2 ms
CFC 60

BARRIER FORCE - SUM CENTER (kn) vs TIME (ms)
Max: 210.3 kn
Tmax: 34.2 ms
Min: -1.1 kn
Tmin: 162.9 ms
CFC 60

BARRIER FORCE - SUM RIGHT (kn) vs TIME (ms)
Max: 173.2 kn
Tmax: 27.9 ms
Min: -0.9 kn
Tmin: 4.9 ms
CFC 60

BARRIER FORCE - SUM ALL (kn) vs TIME (ms)
Max: 450.9 kn
Tmax: 30.5 ms
Min: -0.2 kn
Tmin: 0.0 ms
CFC 60
25MPH FRONTAL UNBELTED
2005 FORD ESCAPE (C50200)

Test Date: 09/03/04
Speed: 24.8 mph (39.9 km/h)

BARRIER FORCE - SUM ALL (kn) vs Average Rear Seat X-mem Displacement (mm)

Max: 450.9 kn
Tmax: 298.6 mm
Min: -0.2 kn
Tmin: -56.5 mm
CFC 60
APPENDIX B

LOW RISK TEST DATA
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2005 FORD ESCAPE (5TH P1)

Test Date: 07/29/04
Speed: 0.0 mph (0.0 km/h)

5TH FEM. DRIVER HEAD X (G's) vs TIME (ms)
Max: 10.0 G's
Tmax: 194.6 ms
Min: -54.1 G's
Tmin: 8.5 ms
CFC 1000

5TH FEM. DRIVER HEAD Y (G's) vs TIME (ms)
Max: 2.0 G's
Tmax: 25.4 ms
Min: -3.6 G's
Tmin: 21.4 ms
CFC 1000

5TH FEM. DRIVER HEAD Z (G's) vs TIME (ms)
Max: 16.9 G's
Tmax: 13.6 ms
Min: -37.8 G's
Tmin: 8.7 ms
CFC 1000

5TH FEM. DRIVER HEAD Resultant (G's) vs TIME (ms)
Max: 61.4 G's
Tmax: 8.6 ms
Min: 0.0 G's
Tmin: 0.0 ms
CFC 1000
LOW RISK DEPLOYMENT
2005 FORD ESCAPE (5TH P1)

Test Date: 07/29/04
Speed: 0.0 mph (0.0 km/h)

5TH FEM. DRIVER HEAD X Velocity (kph) vs TIME (ms)
Max: 7.6 kph
Tmax: 300.0 ms
Min: -19.9 kph
Tmin: 58.4 ms
CFC 180

5TH FEM. DRIVER HEAD Y Velocity (kph) vs TIME (ms)
Max: 3.2 kph
Tmax: 300.0 ms
Min: -0.5 kph
Tmin: 74.6 ms
CFC 180

5TH FEM. DRIVER HEAD Z Velocity (kph) vs TIME (ms)
Max: 24.7 kph
Tmax: 230.8 ms
Min: -0.6 kph
Tmin: 9.5 ms
CFC 180
LOW RISK DEPLOYMENT
2005 FORD ESCAPE (5TH P1)

Test Date: 07/29/04
Speed: 0.0 mph (0.0 km/h)

5TH FEM. DRIVER NECK FX (N) vs TIME (ms)
Max: 399.3 N
Tmax: 8.5 ms
Min: -619.5 N
Tmin: 35.5 ms
CFC 1000

5TH FEM. DRIVER NECK FY (N) vs TIME (ms)
Max: 60.9 N
Tmax: 25.1 ms
Min: -15.5 N
Tmin: 50.0 ms
CFC 1000

5TH FEM. DRIVER NECK FZ (N) vs TIME (ms)
Max: 1293.0 N
Tmax: 28.2 ms
Min: -226.1 N
Tmin: 11.9 ms
CFC 1000

5TH FEM. DRIVER NECK FResultant (N) vs TIME (ms)
Max: 1416.4 N
Tmax: 34.5 ms
Min: 0.6 N
Tmin: 0.0 ms
CFC 1000
LOW RISK DEPLOYMENT
2005 FORD ESCAPE (5TH P1)

Test Date: 07/29/04
Speed: 0.0 mph (0.0 km/h)

5TH FEM. DRIVER NECK MX (Nm) vs TIME (ms)
Max: 1.9 Nm
Tmax: 19.3 ms
Min: -7.4 Nm
Tmin: 25.3 ms
CFC 600

5TH FEM. DRIVER NECK MY (Nm) vs TIME (ms)
Max: 10.2 Nm
Tmax: 8.7 ms
Min: -46.9 Nm
Tmin: 36.3 ms
CFC 600

5TH FEM. DRIVER NECK MZ (Nm) vs TIME (ms)
Max: 2.5 Nm
Tmax: 17.7 ms
Min: -2.9 Nm
Tmin: 42.4 ms
CFC 600

Drv. Occipital Condyle Moment (Nm) vs TIME (ms)
Max: 11.0 Nm
Tmax: 252.1 ms
Min: -36.2 Nm
Tmin: 36.4 ms
CFC 600
LOW RISK DEPLOYMENT
2005 FORD ESCAPE (5TH P1)

Test Date: 07/29/04
Speed: 0.0 mph (0.0 km/h)

5TH FEM. DRIVER CHEST X (G's) vs TIME (ms)

Max: 7.2 G's
Tmax: 251.6 ms
Min: -17.8 G's
Tmin: 83.5 ms
CFC 180

5TH FEM. DRIVER CHEST Y (G's) vs TIME (ms)

Max: 1.3 G's
Tmax: 17.9 ms
Min: -1.1 G's
Tmin: 75.7 ms
CFC 180

5TH FEM. DRIVER CHEST Z (G's) vs TIME (ms)

Max: 7.4 G's
Tmax: 12.1 ms
Min: -8.6 G's
Tmin: 9.7 ms
CFC 180

5TH FEM. DRIVER CHEST Resultant (G's) vs TIME (ms)

Max: 17.9 G's
Tmax: 83.5 ms
Min: 0.0 G's
Tmin: 0.0 ms
CFC 180
LOW RISK DEPLOYMENT
2005 FORD ESCAPE (5TH P1)
Test Date: 07/29/04
Speed: 0.0 mph (0.0 km/h)

5TH FEM. DRIVER CHEST X Velocity (kph) vs TIME (ms)
Max: 8.7 kph
Tmax: 300.0 ms
Min: -6.8 kph
Tmin: 49.2 ms
CFC 180

5TH FEM. DRIVER CHEST Y Velocity (kph) vs TIME (ms)
Max: 1.4 kph
Tmax: 292.9 ms
Min: -0.1 kph
Tmin: 16.7 ms
CFC 180

5TH FEM. DRIVER CHEST Z Velocity (kph) vs TIME (ms)
Max: 7.2 kph
Tmax: 254.6 ms
Min: -0.5 kph
Tmin: 10.9 ms
CFC 180

5TH FEM. DRIVER CHEST DISPLACEMENT (mm) vs TIME (ms)
Max: 0.3 mm
Tmax: 0.0 ms
Min: -6.4 mm
Tmin: 33.3 ms
CFC 600
LOW RISK DEPLOYMENT
2005 FORD ESCAPE (5TH P1)
Test Date: 07/29/04
Speed: 0.0 mph (0.0 km/h)

FIRE VOLTAGE #1 (Volts) vs TIME (ms)
Max: 16.6 Volts
Tmax: 0.4 ms
Min: -0.3 Volts
Tmin: 0.0 ms
CFC 1000

FIRE CURRENT #1 (Amps) vs TIME (ms)
Max: 3.5 Amps
Tmax: 8.8 ms
Min: -0.1 Amps
Tmin: 10.2 ms
CFC 1000

FIRE VOLTAGE #2 (Volts) vs TIME (ms)
Max: 16.2 Volts
Tmax: 100.4 ms
Min: -0.2 Volts
Tmin: 99.7 ms
CFC 1000

FIRE CURRENT #2 (Amps) vs TIME (ms)
Max: 2.1 Amps
Tmax: 100.1 ms
Min: -0.1 Amps
Tmin: 100.5 ms
CFC 1000
LOW RISK DEPLOYMENT
2005 FORD ESCAPE (5TH P2)

Test Date: 08/12/04
Speed: 0.0 mph (0.0 km/h)

5TH FEM. DRIVER HEAD X (G's) vs TIME (ms)
Max: 2.6 G's
Tmax: 300.0 ms
Min: -11.0 G's
Tmin: 40.0 ms
CFC 1000

5TH FEM. DRIVER HEAD Y (G's) vs TIME (ms)
Max: 4.5 G's
Tmax: 42.3 ms
Min: -2.3 G's
Tmin: 14.9 ms
CFC 1000

5TH FEM. DRIVER HEAD Z (G's) vs TIME (ms)
Max: 16.5 G's
Tmax: 14.4 ms
Min: -1.7 G's
Tmin: 8.1 ms
CFC 1000

5TH FEM. DRIVER HEAD Resultant (G's) vs TIME (ms)
Max: 17.6 G's
Tmax: 14.4 ms
Min: 0.0 G's
Tmin: 0.0 ms
CFC 1000
LOW RISK DEPLOYMENT
2005 FORD ESCAPE (5TH P2)

Test Date: 08/12/04
Speed: 0.0 mph (0.0 km/h)

**5TH FEM. DRIVER HEAD X Velocity (kph) vs TIME (ms)**
Max: 1.4 kph
Tmax: 300.0 ms
Min: -14.1 kph
Tmin: 79.7 ms
CFC 180

**5TH FEM. DRIVER HEAD Y Velocity (kph) vs TIME (ms)**
Max: 5.8 kph
Tmax: 195.8 ms
Min: -0.5 kph
Tmin: 33.9 ms
CFC 180

**5TH FEM. DRIVER HEAD Z Velocity (kph) vs TIME (ms)**
Max: 19.2 kph
Tmax: 253.8 ms
Min: -0.0 kph
Tmin: 0.0 ms
CFC 180
LOW RISK DEPLOYMENT
2005 FORD ESCAPE (5TH P2)

Test Date: 08/12/04
Speed: 0.0 mph (0.0 km/h)

5TH FEM. DRIVER NECK FX (N) vs TIME (ms)
Max: 52.4 N
Tmax: 159.8 ms
Min: -360.4 N
Tmin: 18.7 ms
CFC 1000

5TH FEM. DRIVER NECK FY (N) vs TIME (ms)
Max: 59.1 N
Tmax: 80.6 ms
Min: -102.4 N
Tmin: 48.4 ms
CFC 1000

5TH FEM. DRIVER NECK FZ (N) vs TIME (ms)
Max: 610.1 N
Tmax: 14.5 ms
Min: -53.9 N
Tmin: 8.2 ms
CFC 1000

5TH FEM. DRIVER NECK FResultant (N) vs TIME (ms)
Max: 647.0 N
Tmax: 14.5 ms
Min: 0.2 N
Tmin: 0.0 ms
CFC 1000
LOW RISK DEPLOYMENT
2005 FORD ESCAPE (5TH P2)
Test Date: 08/12/04
Speed: 0.0 mph (0.0 km/h)

5TH FEM. DRIVER CHEST X (G's) vs TIME (ms)
Max: 3.8 G's
Tmax: 300.0 ms
Min: -26.9 G's
Tmin: 12.2 ms
CFC 180

5TH FEM. DRIVER CHEST Y (G's) vs TIME (ms)
Max: 4.4 G's
Tmax: 10.4 ms
Min: -1.8 G's
Tmin: 13.1 ms
CFC 180

5TH FEM. DRIVER CHEST Z (G's) vs TIME (ms)
Max: 4.9 G's
Tmax: 15.7 ms
Min: -0.9 G's
Tmin: 293.7 ms
CFC 180

5TH FEM. DRIVER CHEST Resultant (G's) vs TIME (ms)
Max: 27.1 G's
Tmax: 12.2 ms
Min: 0.0 G's
Tmin: 0.0 ms
CFC 180
LOW RISK DEPLOYMENT
2005 FORD ESCAPE (5TH P2)

Test Date: 08/12/04
Speed: 0.0 mph (0.0 km/h)

5TH FEM. DRIVER CHEST X Velocity (kph) vs TIME (ms)
- Max: 3.1 kph
- Tmax: 300.0 ms
- Min: -8.1 kph
- Tmin: 50.4 ms
- CFC 180

5TH FEM. DRIVER CHEST Y Velocity (kph) vs TIME (ms)
- Max: 2.9 kph
- Tmax: 78.8 ms
- Min: -0.0 kph
- Tmin: 8.9 ms
- CFC 180

5TH FEM. DRIVER CHEST Z Velocity (kph) vs TIME (ms)
- Max: 6.9 kph
- Tmax: 242.8 ms
- Min: -0.0 kph
- Tmin: 0.0 ms
- CFC 180

5TH FEM. DRIVER CHEST DISPLACEMENT (mm) vs TIME (ms)
- Max: 0.3 mm
- Tmax: 1.4 ms
- Min: -22.2 mm
- Tmin: 14.2 ms
- CFC 600
LOW RISK DEPLOYMENT
2005 FORD ESCAPE (5TH P2)

Test Date: 08/12/04
Speed: 0.0 mph (0.0 km/h)

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

Max: 468.2 N
Tmax: 17.3 ms
Min: -55.7 N
Tmin: 83.8 ms
CFC 600

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

Max: 382.8 N
Tmax: 16.9 ms
Min: -59.7 N
Tmin: 91.5 ms
CFC 600
LOW RISK DEPLOYMENT
2005 FORD ESCAPE (5TH P2)

Test Date: 08/12/04
Speed: 0.0 mph (0.0 km/h)

FIRE VOLTAGE #1 (Volts) vs TIME (ms)
Max: 16.2 Volts
Tmax: 0.4 ms
Min: -0.4 Volts
Tmin: 11.3 ms
CFC 1000

FIRE CURRENT #1 (Amps) vs TIME (ms)
Max: 1.6 Amps
Tmax: 0.1 ms
Min: -10.0 Amps
Tmin: 10.9 ms
CFC 1000

FIRE VOLTAGE #2 (Volts) vs TIME (ms)
Max: 16.3 Volts
Tmax: 100.4 ms
Min: -0.3 Volts
Tmin: 99.8 ms
CFC 1000

FIRE CURRENT #2 (Amps) vs TIME (ms)
Max: 1.8 Amps
Tmax: 100.1 ms
Min: -0.2 Amps
Tmin: 1.7 ms
CFC 1000
APPENDIX C
CRASH TEST PHOTOGRAPHS
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<td>68</td>
<td>Temperature Plot</td>
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**Vehicle Certification Label**

**MFD. BY FORD MOTOR CO. IN U.S.A.**

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<th>Date: 02/04</th>
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<td>Rear GAWR: 2115LB</td>
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| 1016KG | WITH | 959KG |

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<th>P225/75R15</th>
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<tr>
<td>15X6.5J</td>
<td>RIMS</td>
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| AT 220 kPa/32 PSI COLD |

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

**VIN: 1FMYU02Z45KA10086**

**TYPE: MPV**

**EXT PNT: SN**


**120040204282 UTC 2USA-1520472-AA**

**T0082**
### TIRE AND LOAD INFORMATION

SEE OWNERS MANUAL FOR ADDITIONAL INFORMATION

The combined weight of occupants and cargo should never exceed 439 kg or 970 lbs.

The seating capacity is a maximum of **05** seats, with **02** seats in the front and **03** seats in the rear.

<table>
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<tr>
<th>Seating Capacity</th>
<th>Total: 05</th>
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<th>Rear: 03</th>
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<td><strong>Rear</strong></td>
<td>P225/75R15</td>
<td><strong>Rear: 220 KPA, 32 PSI</strong></td>
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<td><strong>415 KPA, 60 PSI</strong></td>
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Pre-Test Left Side View of Test Vehicle
Post-Test Left Side View of Test Vehicle
Post-Test Right Side View of Test Vehicle
Pre-Test Right Front Three-Quarter View of Test Vehicle
Post-Test Right Front Three-Quarter View of Test Vehicle
Pre-Test 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 Mid Underbody
Post-Test Rear Mid Underbody
Pre-Test Rear Underbody View
Post-Test Rear Underbody
Pre-Test Driver Dummy Seat Position

PRE-TEST

C50200
25 MPH FRONTAL UNBELTED
04090301
MGA RESEARCH CORP.
2005 FORD ESCAPE
Post-Test Driver Dummy Seat Position
Post-Test Driver Dummy Feet Position
Post-Test Driver Side Knee Bolster View
Post-Test Driver Dummy Knee Contact
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 (Door Open)
Pre-Test Passenger Dummy Seat Position
Post-Test Passenger Dummy Seat Position
Pre-Test Passenger Dummy Feet Position
Post-Test Passenger Dummy Feet Position
Pre-Test Passenger Side Knee Bolster View
Post-Test Passenger Side Knee Bolster View
Post-Test Passenger Dummy Knee Contact
Pre-Test Center Rear Passenger Front View (head position)
Post-Test Center Rear Passenger Dummy Side View (Door Open)
Post-Test Center Rear Passenger Dummy Left Side Head View
Pre-Test Center Rear Passenger Dummy Knee Bolster View
Rollover 90 Degrees
Rollover 360 Degrees
Vehicle Impact
# TABLE OF PHOTOGRAPHS

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<th>Page No.</th>
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<td>2</td>
<td>Pre-Test 5th Fem. P1 Driver Dummy Left Side View (Door Open)</td>
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<td>Post-Test 5th Fem. P1 Driver Dummy Left Side View (Door Open)</td>
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Geometric Center (2004 Ford Escape)
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<td>6-Year-Old Unbelted Rearward Seat Track, Position 1</td>
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DOT/NHTSA 208 Suppression Test – 2005 Ford Escape (C50200)
12 Month Section B Rear Facing CRS

Britax Handle With Care 191 With Belt, Forward Seat Track, Handle Down
Britax Handle With Care 191 With Belt, Middle Seat Track, Handle Down
Britax Handle With Care 191 With Belt, Rearward Seat Track, Handle Down
Britax Handle With Care 191 Unbelted, Forward Seat Track, Handle Down
DOT/NHTSA 208 Suppression Test – 2005 Ford Escape (C50200)
12 Month Section B Rear Facing CRS

Britax Handle With Care 191 Fwd Facing Unbelted, Rearward Seat Track, Handle Down

Unbelted 5th Percentile Female Reactivation, Rearward Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Ford Escape (C50200)
12 Month Section B Rear Facing CRS

No Photo Available

Evenflo First Choice 204 With Belt, Middle Seat Track, Handle Up

Evenflo First Choice 204 With Belt, Rearward Seat Track, Handle Down

Evenflo First Choice 204 Unbelted, Forward Seat Track, Handle Up
DOT/NHTSA 208 Suppression Test – 2005 Ford Escape (C50200)
12 Month Section B Rear Facing CRS

- Evenflo First Choice 204 Unbelted, Middle Seat Track, Handle Down
- Evenflo First Choice 204 Unbelted, Rearward Seat Track, Handle Up
- Evenflo First Choice 204 Fwd Facing Unbelted, Forward Seat Track, Handle Up
- Evenflo First Choice 204 Fwd Facing Unbelted, Middle Seat Track, Handle Up
DOT/NHTSA 208 Suppression Test – 2005 Ford Escape (C50200)
12 Month Section B Rear Facing CRS

Evenflo First Choice 204 Fwd Facing Unbelted, Rearward Seat Track, Handle Up

Unbelted 5th Percentile Female Reactivation, Middle Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Ford Escape (C50200)
12 Month Section B Rear Facing CRS

Graco Infant W/ Base With Belt, Middle Seat Track, Handle Up
Graco Infant W/ Base With Belt, Rearward Seat Track, Handle Down
Graco Infant W/ Base Unbelted, Middle Seat Track, Handle Up
Graco Infant W/ Base Unbelted, Rearward Seat Track, Handle Down
Graco Infant W/ Base Fwd Facing Unbelted, Forward Seat Track, Handle Up
Graco Infant W/ Base Fwd Facing Unbelted, Middle Seat Track, Handle Up
Graco Infant W/ Base Fwd Facing Unbelted, Rearward Seat Track, Handle Up
Graco Infant W/O Base With Belt, Forward Seat Track, Handle Up
DOT/NHTSA 208 Suppression Test – 2005 Ford Escape (C50200)

12 Month Section B Rear Facing CRS

Graco Infant W/O Base With Belt, Middle Seat Track, Handle Up

Graco Infant W/O Base With Belt, Rearward Seat Track, Handle Down

Graco Infant W/O Base Unbelted, Forward Seat Track, Handle Up

Graco Infant W/O Base Unbelted, Middle Seat Track, Handle Up
DOT/NHTSA 208 Suppression Test – 2005 Ford Escape (C50200)

12 Month Section B Rear Facing CRS

Graco Infant W/O Base Unbelted, Rearward Seat Track, Handle Down
Graco Infant W/O Base Fwd Facing Unbelted, Forward Seat Track, Handle Up
Graco Infant W/O Base Fwd Facing Unbelted, Middle Seat Track, Handle Up
Graco Infant W/O Base Fwd Facing Unbelted, Rearward Seat Track, Handle Down
Unbelted 5th Percentile Female Reactivation, Forward Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Ford Escape (C50200)
12 Month Section C Forward Facing Convertible CRS

Britax Roundabout 161 Fwd Facing With Belt, Forward Seat Track
Britax Roundabout 161 Fwd Facing With Belt, Middle Seat Track
Britax Roundabout 161 Fwd Facing With Belt, Rearward Seat Track
Britax Roundabout 161 Fwd Facing Unbelted, Forward Seat Track
Britax Roundabout 161 Fwd Facing Unbelted, Middle Seat Track

Britax Roundabout 161 Fwd Facing Unbelted, Rearward Seat Track

Britax Roundabout 161 Rear Facing With Belt, Forward Seat Track

Britax Roundabout 161 Rear Facing With Belt, Middle Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Ford Escape (C50200)
12 Month Section C Forward Facing Convertible CRS

Britax Roundabout 161 Rear Facing With Belt, Rearward Seat Track
Britax Roundabout 161 Rear Facing Unbelted, Forward Seat Track
Britax Roundabout 161 Rear Facing Unbelted, Middle Seat Track
Britax Roundabout 161 Rear Facing Unbelted, Rearward Seat Track
Unbelted 5th Percentile Female Reactivation,
Rearward Seat Track
Century Encore Fwd Facing With Belt, Forward Seat Track

Century Encore Fwd Facing With Belt, Middle Seat Track

Century Encore Fwd Facing With Belt, Rearward Seat Track

Century Encore Fwd Facing Unbelted, Forward Seat Track
Unbelted 5th Percentile Female Reactivation, Middle Seat Track
Unbelted 5th Percentile Female Reactivation,
Forward Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Ford Escape (C50200)
3 Year Old Section C Forward Facing Convertible CRS

3-Year-Old Fwd Facing Britax Roundabout Belted, Forward Seat Track
3-Year-Old Fwd Facing Britax Roundabout Belted, Middle Seat Track
3-Year-Old Fwd Facing Britax Roundabout Belted, Rearward Seat Track
Unbelted 5th Percentile Female Reactivation, Rearward Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Ford Escape (C50200)

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 Seat, Middle Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Ford Escape (C50200)

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, Forward Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Ford Escape (C50200)
3 Year Old Section D Forward Facing Toddler Belt Positioning Booster Seat

Unbelted 5th Percentile Female Reactivation, Rearward Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Ford Escape (C50200)
6 Year Old Section D Forward Facing Toddler Belt Positioning Booster Seat

No Photo Available

6-Year-Old Century Next Step Belted, Forward Seat Track

No Photo Available

6-Year-Old Century Next Step Belted, Middle Seat Track

6-Year-Old Century Next Step Belted, Rearward Seat Track

Unbelted 5th Percentile Female Reactivation, Forward Seat Track
6-Year-Old Cosco High Back Booster Belted,
Forward Seat Track

6-Year-Old Cosco High Back Booster Belted,
Middle Seat Track

Unbelted 5th Percentile Female Reactivation,
Middle Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Ford Escape (C50200)

3 Year Old No CRS

3-Year-Old Unbelted, Forward Seat Track, Position 1
3-Year-Old Unbelted, Forward Seat Track, Position 2
3-Year-Old Unbelted, Forward Seat Track, Position 3
3-Year-Old Unbelted, Forward Seat Track, Position 4
DOT/NHTSA 208 Suppression Test – 2005 Ford Escape (C50200)

3 Year Old No CRS

3-Year-Old Unbelted, Forward Seat Track, Position 5

3-Year-Old Unbelted, Forward Seat Track, Position 6

3-Year-Old Unbelted, Forward Seat Track, Position 7

3-Year-Old Unbelted, Middle Seat Track, Position 1
DOT/NHTSA 208 Suppression Test – 2005 Ford Escape (C50200)
3 Year Old No CRS
DOT/NHTSA 208 Suppression Test – 2005 Ford Escape (C50200)

3 Year Old No CRS

3-Year-Old Unbelted, Middle Seat Track, Position 6

3-Year-Old Unbelted, Middle Seat Track, Position 7

3-Year-Old Unbelted, Rearward Seat Track, Position 1

3-Year-Old Unbelted, Rearward Seat Track, Position 2
DOT/NHTSA 208 Suppression Test – 2005 Ford Escape (C50200)

3 Year Old  No CRS

3-Year-Old Unbelted, Rearward Seat Track, Position 3

3-Year-Old Unbelted, Rearward Seat Track, Position 4

3-Year-Old Unbelted, Rearward Seat Track, Position 5

3-Year-Old Unbelted, Rearward Seat Track, Position 6
DOT/NHTSA 208 Suppression Test – 2005 Ford Escape (C50200)
3 Year Old     No CRS

3-Year-Old Unbelted, Rearward Seat Track, Position 7

Unbelted 5th Percentile Female Reactivation, Middle Seat Track
DOT/NHTSA 208 Suppression Test – 2005 Ford Escape (C50200)

6 Year Old No CRS

6-Year-Old Unbelted Forward Seat Track, Position 3

6-Year-Old Unbelted Middle Seat Track, Position 1

6-Year-Old Unbelted Middle Seat Track, Position 2

6-Year-Old Unbelted Middle Seat Track, Position 3
DOT/NHTSA 208 Suppression Test – 2005 Ford Escape (C50200)
6 Year Old No CRS

6-Year-Old Unbelted Middle Seat Track, Position 4

6-Year-Old Unbelted Middle Seat Track, Position 4, Side View

6-Year-Old Unbelted Rearward Seat Track, Position 1

6-Year-Old Unbelted Rearward Seat Track, Position 2
DOT/NHTSA 208 Suppression Test – 2005 Ford Escape (C50200)

6 Year Old  No CRS

6-Year-Old Unbelted Rearward Seat Track, Position 3

6-Year-Old Unbelted Rearward Seat Track, Position 4

6-Year-Old Unbelted Rearward Seat Track, Position 4, Side View

Unbelted 5th Percentile Female Reactivation, Rearward Seat Track
APPENDIX F

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

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### INSTRUMENTS FOR PASSENGER DUMMY NO. 505

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<td>AHTF1</td>
<td>4/16/04</td>
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<tr>
<td>Chest Displacement</td>
<td>505</td>
<td>Servo</td>
</tr>
<tr>
<td>Left Femur Load Cell</td>
<td>1362</td>
<td>GSE</td>
</tr>
<tr>
<td>Right Femur Load Cell</td>
<td>1361</td>
<td>GSE</td>
</tr>
</tbody>
</table>

## VEHICLE INSTRUMENTS

<table>
<thead>
<tr>
<th>SERIAL NO.</th>
<th>MANUFACTURER</th>
<th>CALIBRATION DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Rear Seat Crossmember X</td>
<td>L17-D23</td>
<td>8/25/04</td>
</tr>
<tr>
<td>Right Rear Seat Crossmember X</td>
<td>L17-D39</td>
<td>8/25/04</td>
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<tr>
<td>Top of Engine X</td>
<td>K21-N27</td>
<td>8/24/04</td>
</tr>
<tr>
<td>Bottom of Engine X</td>
<td>K18-J08</td>
<td>8/25/04</td>
</tr>
<tr>
<td>Left Brake Caliper X</td>
<td>L17-D34</td>
<td>8/25/04</td>
</tr>
<tr>
<td>Right Brake Caliper X</td>
<td>L18-J03</td>
<td>8/25/04</td>
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<tr>
<td>Instrument Panel X</td>
<td>K07-R13</td>
<td>8/25/04</td>
</tr>
<tr>
<td>Trunk Z</td>
<td>D07-N08</td>
<td>8/25/04</td>
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