

REPORT NO. 207-KAR-07-001

**COMPLIANCE TESTING
FOR FMVSS 207**

SEATING SYSTEMS

2008 CHRYSLER 300
4-DOOR

NHTSA NO. C80307

PREPARED BY:
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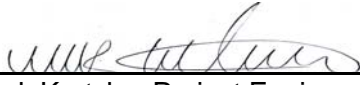
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FINAL REPORT


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Technical Report Documentation Page

| | | | |
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| 16. <i>Abstract</i> Compliance tests were conducted on the subject 2008 Chrysler 300 4-Door in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-207-09 for the determination of FMVSS 207 Compliance. Test failures identified were as follows: None. | | | |
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SECTION 1

PURPOSE OF COMPLIANCE TEST

1. PURPOSE OF COMPLIANCE TEST

Tests were conducted on a 2008 Chrysler 300 4-Door, manufactured by Chrysler LLC. to determine FMVSS 207, "Seating Systems" Compliance data. The purpose of this standard is to reduce the number of deaths and injuries that may be caused by the failure of seats, their attachment hardware, and their installation when said failure results from the forces on the seat in a vehicle impact.

All tests were conducted based on the current National Highway Traffic Safety Administration (NHTSA), Office of Vehicle Safety Compliance (OVSC) Laboratory Procedures, TP-207-09, dated June 18, 1992, and corresponding KARCO Engineering, LLC test procedure KTP-207, dated August 2, 2002. Detailed procedures for receiving, inspecting, testing and reporting of test results are described in the test procedures and are not repeated in this report.

This report is organized in sections containing pertinent test information and data tables as follows:

- Section 2 - Compliance Test Procedure and Data Summary
- Section 3 - Compliance Test Data
- Section 4 - No Compliance Data (if applicable)
- Appendix A - Photographs
- Appendix B - Data Plots
- Appendix C - Test Equipment List and Calibration Information

SECTION 2

COMPLIANCE TEST PROCEDURE and DATA SUMMARY

2. COMPLIANCE TEST PROCEDURE AND DATA SUMMARY

A 2008 Chrysler 300 4-Door was subjected to FMVSS 207 Compliance testing on August 19 thru September 2, 2008. All tests were conducted at KARCO Engineering, LLC in Adelanto, California. Summary data is shown on Data Sheet No. 2. The following tests were performed:

- Receiving inspection
- Aft moment tests on front seat backs
- Aft load tests on front seat frames and adjusters
- Forward load tests on front seat frames and adjusters
- Forward load tests on front seat frames and adjusters, including FMVSS 210 Loads
- Aft moment tests on rear seat back
- Aft load tests on rear seat backs and cushion
- Forward load tests on rear seat backs and seat cushion

The tests were conducted per the FMVSS 207 test procedure. The significant aspects of the test procedure are described in the following paragraphs.

2.1 Test Vehicle Inspection. The test vehicle was inspected to verify that all seat, restraint systems and seat belt assembly anchorage systems are complete and the seat adjusting mechanisms are working properly.

2.2 Test Vehicle Preparation and Pre-Test Measurements. The test vehicle was securely mounted to the test fixture and connected to the appropriate number of hydraulic actuators. Lateral spacing of the individual seat anchorages were measured and all other angular and dimensional measurements were verified to be in Compliance with the requirements of the subject safety standards. The components were weighed and their centers of gravity determined.

2.3 Static Load Tests-General Performance Requirements.

When tested in accordance with S5, each occupant seat, other than a side-facing seat or a passenger seat on a bus, shall withstand the following forces:

- (a) In any position to which it can be adjusted — 20 times the weight of the seat applied in a forward longitudinal direction;

2. (Continued)

- (b) In any position to which it can be adjusted — 20 times the weight of the seat applied in a rearward longitudinal direction;
- (c) For a seat belt assembly attached to the seat — the force specified in subparagraph (a), if it is a forward facing seat, or subparagraph (b), if it is a rearward facing seat, in each case applied simultaneously with the forces imposed on the seat by the seat belt assembly when it is loaded in accordance with section S4.2 of Federal Motor Vehicle Safety Standard No. 210; and
- (d) In its rearmost position — a force that produces a 3,300 inch-pound moment about the seating reference point (SRP) for each designated seating position (DSP) that the seat provides, applied to the upper cross-member of the seat back or the upper seat back, in a rearward longitudinal direction for forward-facing seats and in a forward longitudinal direction for rearward-facing seats.
- (e) To meet FMVSS 210 requirements, the anchorages, attachment hardware, and attachment bolts for all Type 2 and automatic seat belt assemblies that are installed to comply with Standard No. 208 (49 CFR 571.208) shall withstand 3,000 pound forces when tested in accordance with S5.2.

SECTION 3
COMPLIANCE TEST DATA

3. COMPLIANCE TEST DATA

The results of FMVSS 207 Compliance tests that were conducted on the 2008 Chrysler 300 4-Door on August 19 thru September 2, 2008, to determine Compliance with FMVSS 207, "Seating Systems" are presented in this section. No performance failures were identified with the vehicle tested.

**DATA SHEET NO. 1
TEST VEHICLE RECEIVING INSPECTION**

| VEHICLE | | | |
|-----------------|--------|-------------------------|--------------------|
| YEAR | 2008 | MAKE | Chrysler |
| MODEL | 300 | BODY STYLE | 4-Door |
| NHTSA NO. | C80307 | VIN | 2C3KA43R48H225623 |
| BUILD DATE | 02/08 | TEST DATE | 08/19/08 – 09/2/08 |
| TEST LABORATORY | | KARCO Engineering, LLC. | |

1. First Compliance test by laboratory for this vehicle is S207 test.

| | | | |
|---|-----|--|-------------------|
| | Yes | <input checked="" type="checkbox"/> | No (Go to item 2) |
| * | 1.1 | Label test vehicle with NHTSA Number | |
| * | 1.2 | Verify all options on the “window sticker” are present on the vehicle | |
| * | 1.3 | Verify tires and wheel rims are new and the same as listed | |
| * | 1.4 | Verify there are no dents or other interior or exterior flaws | |
| * | 1.5 | Verify the glove box contains an owner’s manual, warranty document, consumer information, and extra keys | |
| * | 1.6 | Verify the vehicle is equipped with the proper fuel filler cap | |
| * | 1.7 | If the vehicle has been delivered from the dealer, verify the vehicle has been properly prepared and is in running condition | |

2. Verify seat adjusters are working

| | | | | |
|--|-------------------------------------|-----|--------------------------|----|
| | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
|--|-------------------------------------|-----|--------------------------|----|

3. Verify there is a seat belt at each seating position

| | | | | |
|--|-------------------------------------|-----|--------------------------|----|
| | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
|--|-------------------------------------|-----|--------------------------|----|

4. Without disturbing the integrity of each seat belt and anchorage, verify that each seat belt is attached to the anchorage. For seat belts that are attached to the seat, also verify the seats are attached to the seat anchors and the seat anchors are attached to the vehicle.

| | | | | |
|--|-------------------------------------|-----|--------------------------|----|
| | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
|--|-------------------------------------|-----|--------------------------|----|

RESULTS OR RECEIVING INSPECTION:

| | |
|-----------------|-------------------------------------|
| PASS - - | <input checked="" type="checkbox"/> |
| FAIL - - | <input type="checkbox"/> |
| CONDITIONAL - - | <input type="checkbox"/> |

REMARKS:

* Vehicle had previously been tested to FMVSS 111.

RECORDED BY: **MARK KRATZKE** _____ DATE: **09/2/08** _____

APPROVED BY: **MIKE DUNLAP** _____ DATE: **09/2/08** _____

DATA SHEET NO. 2
SEATING SYSTEM TEST RESULTS

| VEHICLE | | | |
|-----------------|-------------------------|------------|--------------------|
| YEAR | 2008 | MAKE | Chrysler |
| MODEL | 300 | BODY STYLE | 4-Door |
| NHTSA NO. | C80307 | VIN | 2C3KA43R48H225623 |
| BUILD DATE | 02/08 | TEST DATE | 08/19/08 – 09/2/08 |
| TEST LABORATORY | KARCO Engineering, LLC. | | |

LEGEND: Wa - Weight of Seat Assembly
 Wb - Weight of Seat Back
 Wc - Weight of Seat Cushion
 Z - Distance from Seat SRP to Uppermost Crossmember = 16.0 "

FOR FRONT BUCKET SEATS - - LEFT SIDE

| COMPONENT | LOAD DIRECTION | COMPONENT WEIGHT (lbs) | REQUIRED LOAD (lbs) | ACTUAL LOAD (lbs) | PEAK MOMENT (in-lbs) | ATTACHMENT (PASS/FAIL) |
|------------------|----------------|------------------------|----------------------|-------------------|----------------------|------------------------|
| Seat Back | Forward | Wb= N/A | 20 x Wb = N/A | N/A | N/A | N/A |
| Seat Assy. | Forward | Wa = 46 | 20 x Wa = 920 | 920.5 | N/A | PASS |
| | Rearward | Wa = 46 | 20 x Wa = 920 | 920.2 | N/A | PASS |
| Seat Back Moment | Rearward | N/A | 3275 in-lb/Z | 207.8 | 3324.8 | PASS |

FOR FRONT BUCKET SEATS - - RIGHT SIDE

| COMPONENT | LOAD DIRECTION | COMPONENT WEIGHT (lbs) | REQUIRED LOAD (lbs) | ACTUAL LOAD (lbs) | PEAK MOMENT (in-lbs) | ATTACHMENT (PASS/FAIL) |
|------------------|----------------|------------------------|----------------------|-------------------|----------------------|------------------------|
| Seat Back | Forward | Wb= N/A | 20 x Wb = N/A | N/A | N/A | N/A |
| Seat Assy. | Forward | Wa = 44 | 20 x Wa = 880 | 880.1 | N/A | PASS |
| | Rearward | Wa = 44 | 20 x Wa = 880 | 881.4 | N/A | PASS |
| Seat Back Moment | Rearward | N/A | 3275 in-lb/Z | 209.1 | 3345.6 | PASS |

DATA SHEET NO. 2 (Continued)

FOR FRONT BUCKET SEATS - - COMBINED

| COMPONENT | LOAD DIRECTION | COMPONENT WEIGHT (lbs) | REQUIRED LOAD (lbs) | ACTUAL LOAD (lbs) | ATTACHMENT (PASS/FAIL) |
|-------------------------|----------------|------------------------|---------------------|-------------------|------------------------|
| Driver Lap Belt | Forward | N/A | 3,000 lbs, +0, -50 | 3061.1 | PASS |
| Driver Shoulder Belt | Forward | N/A | 3,000 lbs, +0, -50 | 3027.8 | PASS |
| Passenger Lap Belt | Forward | N/A | 3,000 lbs, +0, -50 | 3043.4 | PASS |
| Passenger Shoulder Belt | Forward | N/A | 3,000 lbs, +0, -50 | 3031.5 | PASS |
| Driver Seat Assembly | Forward | Wa = 46 | 20 x Wa = 920 | 925.4 | PASS |
| Passenger Seat Assembly | Forward | Wa = 44 | 20 x Wa = 880 | 880.9 | PASS |

LEGEND: Wa - Weight of Seat Assembly

Wb - Weight of Seat Back

Wc - Weight of Seat Cushion

Z - Distance from Seat SRP to Uppermost Crossmember = 16.0 "

FOR REAR BENCH SEAT:-

| COMPONENT | LOAD DIRECTION | COMPONENT WEIGHT (lbs) | REQUIRED LOAD (lbs) | ACTUAL LOAD (lbs) | PEAK MOMENT (in-lbs) | ATTACHMENT (PASS/FAIL) |
|------------------|----------------|------------------------|---------------------|-------------------|----------------------|------------------------|
| Seat Back left | Rearward | Wb = 20 | 20 x Wb = 400 | 416.9 | N/A | PASS |
| Seat Back right | Rearward | Wb = 11 | 20 x Wa = 220 | 220.4 | N/A | PASS |
| Seat cushion | Rearward | Wc =15 | 20 x Wa = 300 | 305.5 | N/A | PASS |
| Seat Back Moment | Left | N/A | N/A | 209.9 | 3358.4 | PASS |
| | Right | N/A | N/A | 214.9 | 3438.4 | PASS |
| Seat Back left | Forward | Wb = 20 | 20 x Wb = 400 | 403.2 | N/A | PASS |
| Seat Back right | Forward | Wb = 11 | 20 x Wa = 220 | 226.9 | N/A | PASS |
| Seat cushion | Forward | Wc =15 | 20 x Wa = 300 | 305.9 | N/A | PASS |

COMMENTS: - None

RECORDED BY: MARK KRATZKE DATE: 09/2/08

APPROVED BY: MIKE DUNLAP DATE: 09/2/08

**DATA SHEET NO. 3
SEAT BACK ANGLES**

| VEHICLE | | | |
|-----------------|-------------------------|------------|--------------------|
| YEAR | 2008 | MAKE | Chrysler |
| MODEL | 300 | BODY STYLE | 4-Door |
| NHTSA NO. | C80307 | VIN | 2C3KA43R48H225623 |
| BUILD DATE | 02/08 | TEST DATE | 08/19/08 – 09/2/08 |
| TEST LABORATORY | KARCO Engineering, LLC. | | |

LAP BELT ANCHORAGES:

| SEAT | SEATING POSITION | SPECIFIED ANGLE RANGE ABOVE HORIZONTAL | MEASURED ANGLE | | DOES BELT SECURELY FIT ON PELVIS? |
|-------|------------------|--|----------------|-----|-----------------------------------|
| | | | I/B | O/B | |
| FRONT | Left | 30 to 75 degrees | 50 | 45 | YES |
| | Center | 30 to 75 degrees | N/A | N/A | N/A |
| | Right | 30 to 75 degrees | 48 | 49 | YES |
| REAR | Left | 30 to 75 degrees | N/A | N/A | N/A |
| | Center | 30 to 75 degrees | N/A | N/A | N/A |
| | Right | 30 to 75 degrees | N/A | N/A | N/A |

SHOULDER BELT ANCHORAGES:

| SEAT | SEATING POSITION | SPECIFIED ANGLE RANGE ABOVE OR BELOW HORIZONTAL | MEASURED ANGLE |
|-------|------------------|---|----------------|
| FRONT | Left | 0 – 80 degrees above | 35° |
| | | 0 – 40 degrees below | |
| | Right | 0 – 80 degrees above | 38° |
| | | 0 – 40 degrees below | |
| REAR | Left | 0 – 80 degrees above | N/A |
| | | 0 – 40 degrees below | N/A |
| | Center | 0 – 80 degrees above | N/A |
| | | 0 – 40 degrees below | N/A |
| | Right | 0 – 80 degrees above | N/A |
| | | 0 – 40 degrees below | N/A |

RECORDED BY: MARK KRATZKE DATE: 09/2/08

APPROVED BY: MIKE DUNLAP DATE: 09/2/08

DATA SHEET NO. 4

REPORT OF VEHICLE CONDITION AT THE COMPLETION OF TESTING

The following vehicle has been subjected to Compliance testing for FMVSS No. **207**

| VEHICLE | | | |
|------------------------------|--------------------------|--------------------------------|---------------------------|
| NHTSA NO. | C80307 | TEST DATE | 08/19/08 – 09/2/08 |
| CONTRACT NO. | DTNH22-01-C-31025 | VIN | 2C3KA43R48H225623 |
| SEAT CONFIGURATION | | | |
| VEHICLE OR SEAT MANUFACTURER | | Chrysler LLC. | |
| TEST LABORATORY | | KARCO Engineering, LLC. | |

The vehicle was inspected upon arrival at the laboratory for the test and found to contain all of the equipment listed below. All variances have been reported within 2 working days of vehicle arrival, by letter, to the NHTSA Industrial Property Manager (NAD-30), with a copy to the OVSC COTR. The vehicle is again inspected, after the above test has been conducted, and all changes are noted below. The final condition of the vehicle is also noted in detail.

| TEST VEHICLE INFORMATION | | | |
|-----------------------------|----------------------------|------------------------|--------------------------|
| Manufacturer | Chrysler LLC. | VIN | 2C3KA43R48H225623 |
| Manufacturing Date | 02/08 | Delivery Date | 08/4/08 |
| Dealer | Ontario Auto Center | NHTSA No. | C80307 |
| Odometer Reading (mi.) | 59 | Fuel Type | GAS |
| Engine Displacement | 2.7 LITER | Cylinders | V-6 |
| Transmission | 5-Speed Automatic | Final Drive | Rear |
| Engine Placement | Longitudinal | Color | Vanilla |
| Tire Press./Max. Cap. Front | 44 PSI | Cold Tire Press. Front | 30 PSI |
| Tire Press./Max. Cap. Rear | 44 PSI | Cold Tire Press. Rear | 30 PSI |
| Recommend Tire Size | P215/65R17 | Type of Spare | T135/90/D17 |
| Tire Size on Vehicle | P215/65R17 | Manufacturer | GOODYEAR |
| GVWR | 2225 Kg. | Cargo Capacity | 392 Kg. |
| GAWR Front | 1275 Kg. | GAWR Rear | 1275 Kg. |
| Air Conditioning | YES | Power Steering | YES |
| Power Brakes | YES | AM/FM/Cassette | YES |
| Disc Brakes (Front) | YES | Disc Brakes (Rear) | YES |
| Power Windows | YES | Tilt Steering | YES |
| Anti-lock Brakes (ABS) | NO | Power Seats | YES |
| Driver Airbag | YES | Passenger Airbag | YES |

Test Vehicle Condition at the end of testing: **FRONT OF VEHICLE WAS REMOVED, SEATS WERE TESTED.**

RECORDED BY: MARK KRATZKE DATE: 09/2/08

APPROVED BY: MIKE DUNLAP DATE: 09/2/08

APPENDIX A
PHOTOGRAPHS



FIGURE 1. Right Front ¾ View, As Received



FIGURE 2. Left Side, As Received



FIGURE 3. Left Rear $\frac{3}{4}$ View, As Received



FIGURE 4. Right Side, As Received



FIGURE 5. Manufacturer's Label

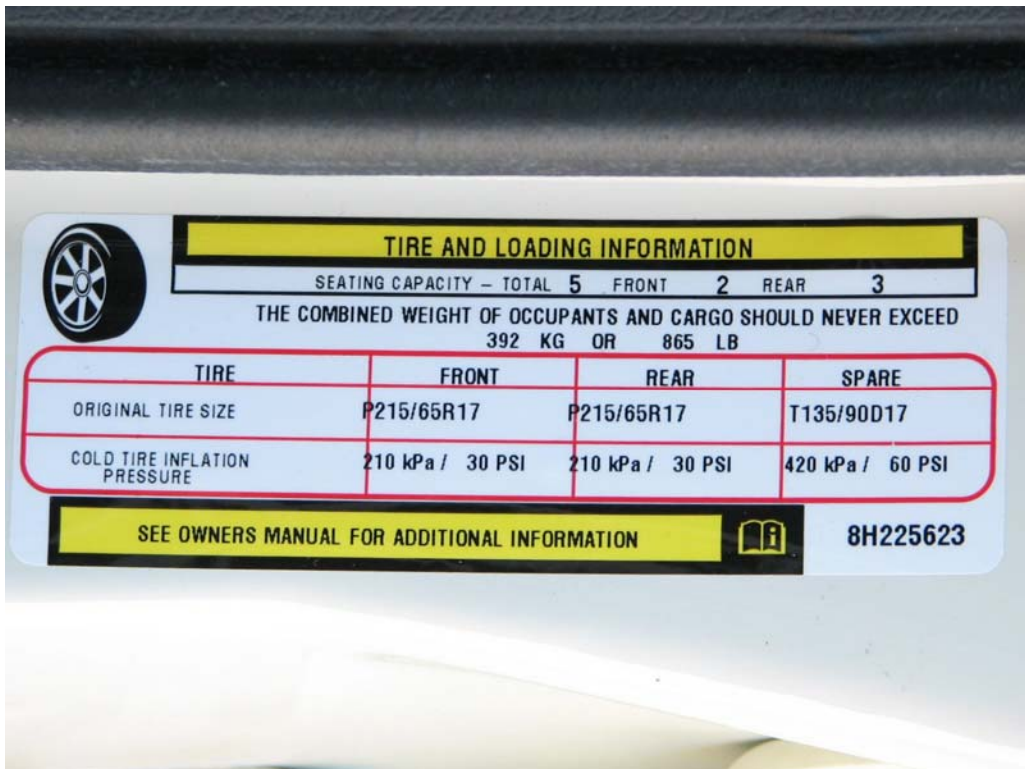


FIGURE 6. Vehicle Tire Placard



FIGURE 7. Vehicle Mounted in Test Fixture

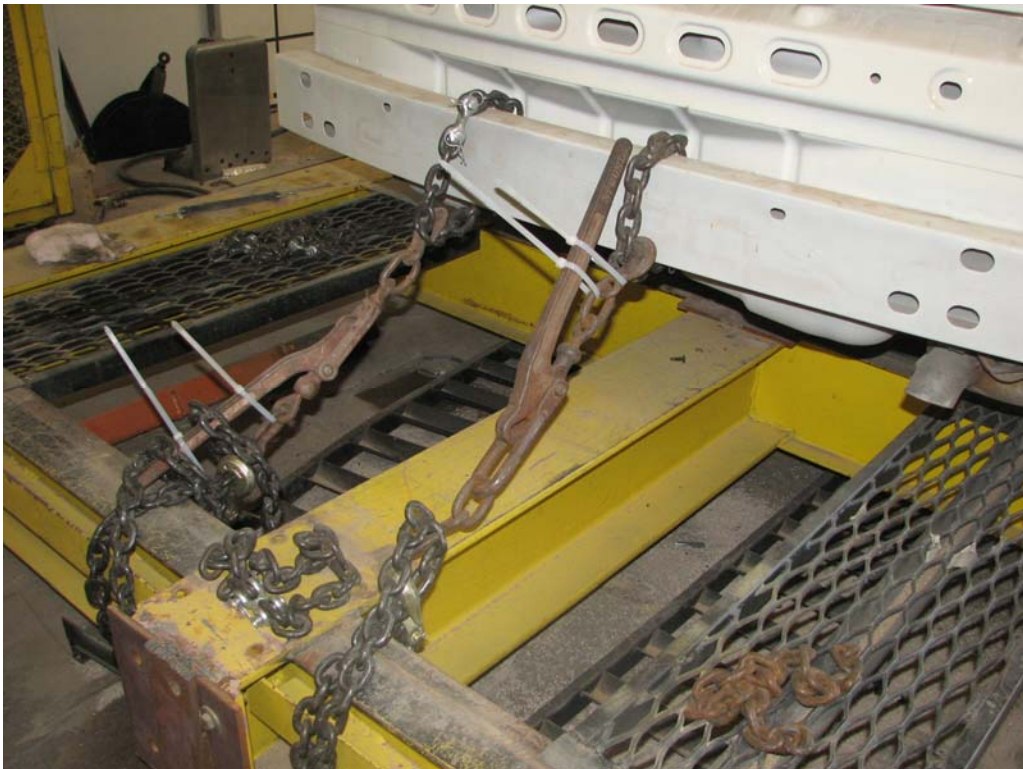


FIGURE 8. Vehicle Mounted in Test Fixture



FIGURE 9. Vehicle Mounted in Test Fixture



FIGURE 10. Vehicle Mounted in Test Fixture



FIGURE 11. Aft Moment on Seat Back, P1, Pre-Test



FIGURE 12. Aft Moment on Seat Back, P1, Post-Test



FIGURE 13. Aft Moment on Seat Back, P2, Pre-Test



FIGURE 14. Aft Moment on Seat Back, P2, Post-Test



FIGURE 15. Forward Load on Seat Frame and Adjusters, P1, Pre-Test



FIGURE 16. Forward Load on Seat Frame and Adjusters, P1, Post-Test



FIGURE 17. Forward Load on Seat Frame and Adjusters, P2, Pre-Test



FIGURE 18. Forward Load on Seat Frame and Adjusters, P2, Post-Test



FIGURE 19. Aft Load on Seat Frame and Adjusters, P1, Pre-Test



FIGURE 20. Aft Load on Seat Frame and Adjusters, P1, Post-Test



FIGURE 21. Aft Load on Seat Frame and Adjusters, P2, Pre-Test



FIGURE 22. Aft Load on Seat Frame and Adjusters, P2, Post-Test



FIGURE 23. 207/210 Forward Load on Seat Frame and Adjusters, P1, Pre-Test



FIGURE 24. 207/210 Forward Load on Seat Frame and Adjusters, P1, Post-Test



FIGURE 25. 207/210 Forward Load on Seat Frame and Adjusters, P2, Pre-Test



FIGURE 26. 207/210 Forward Load on Seat Frame and Adjusters, P2, Post-Test



FIGURE 27. Aft Moment Seat Back, P4, Pre-Test



FIGURE 28. Aft Moment Seat Back, P4, Post-Test



FIGURE 29. Aft Moment on Seat Back, P3, Pre-Test



FIGURE 30. Aft Moment on Seat Back, P3, Post-Test



FIGURE 31. Forward Load on Seat Back and Seat Cushion, P4, Pre-Test



FIGURE 32. Forward Load on Seat Back and Seat Cushion, P4, Post-Test



FIGURE 33. Forward Load on Seat Back and Seat Cushion, P3, Pre-Test



FIGURE 34. Forward Load on Seat Back and Seat Cushion, P3, Post-Test

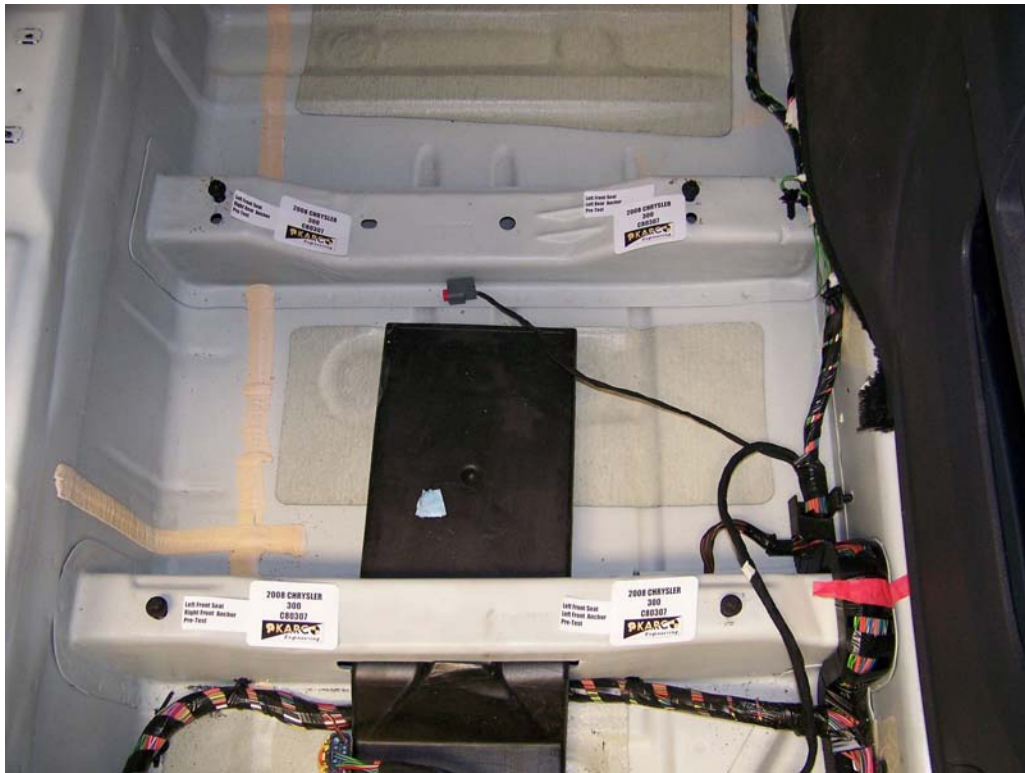


FIGURE 35. Floor Pan Anchors, P1 Overall, Pre-Test



FIGURE 36. Floor Pan Anchors, P1 Overall, Post-Test

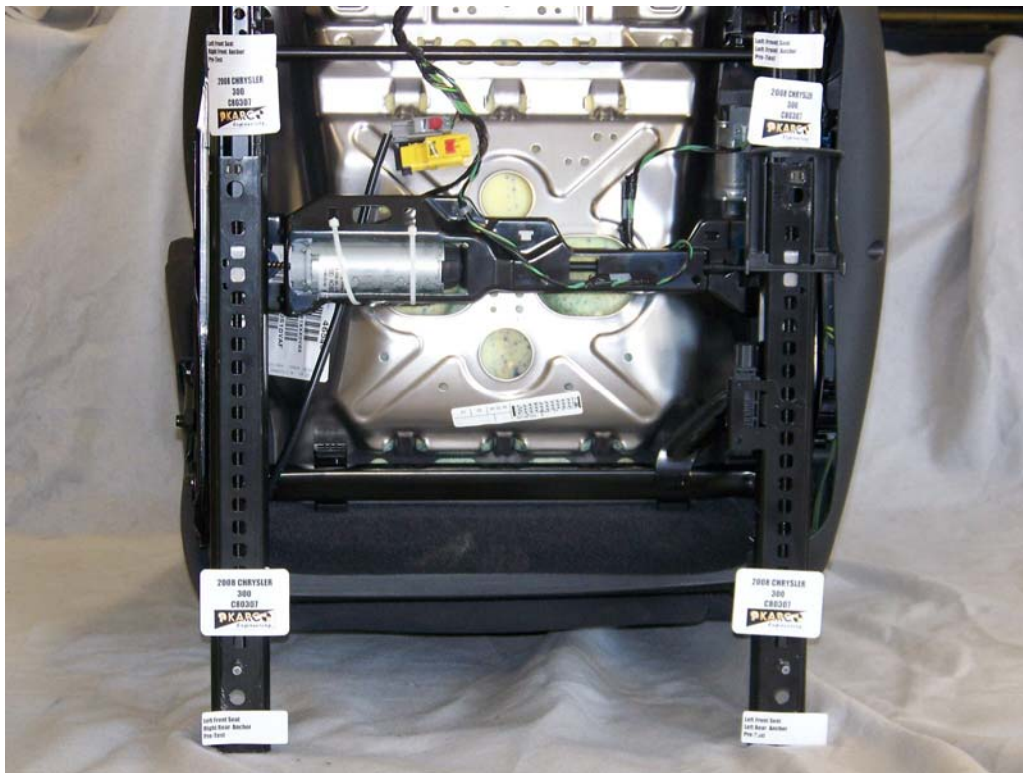


FIGURE 37. Seat Anchors, P1 Overall, Pre-Test

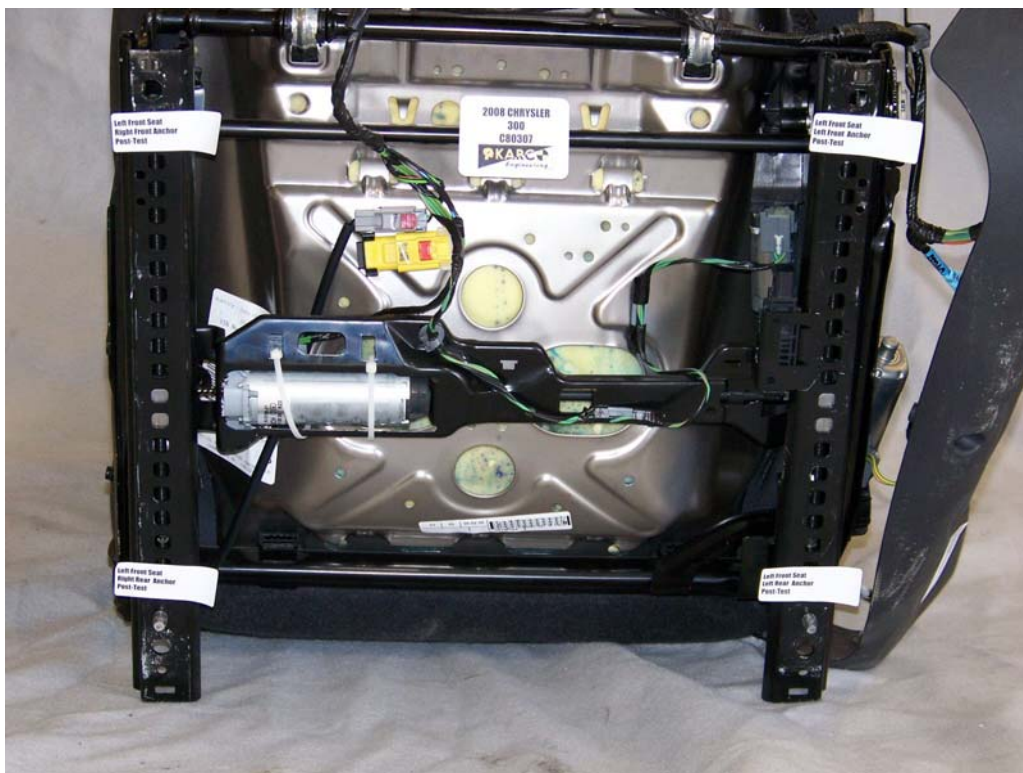


FIGURE 38. Seat Anchors, P1 Overall, Post-Test



FIGURE 39. Floor Pan Anchor, P1, Pre-Test



FIGURE 40. Floor Pan Anchor, P1, Post-Test



FIGURE 41. Seat Anchor, P1, Pre-Test

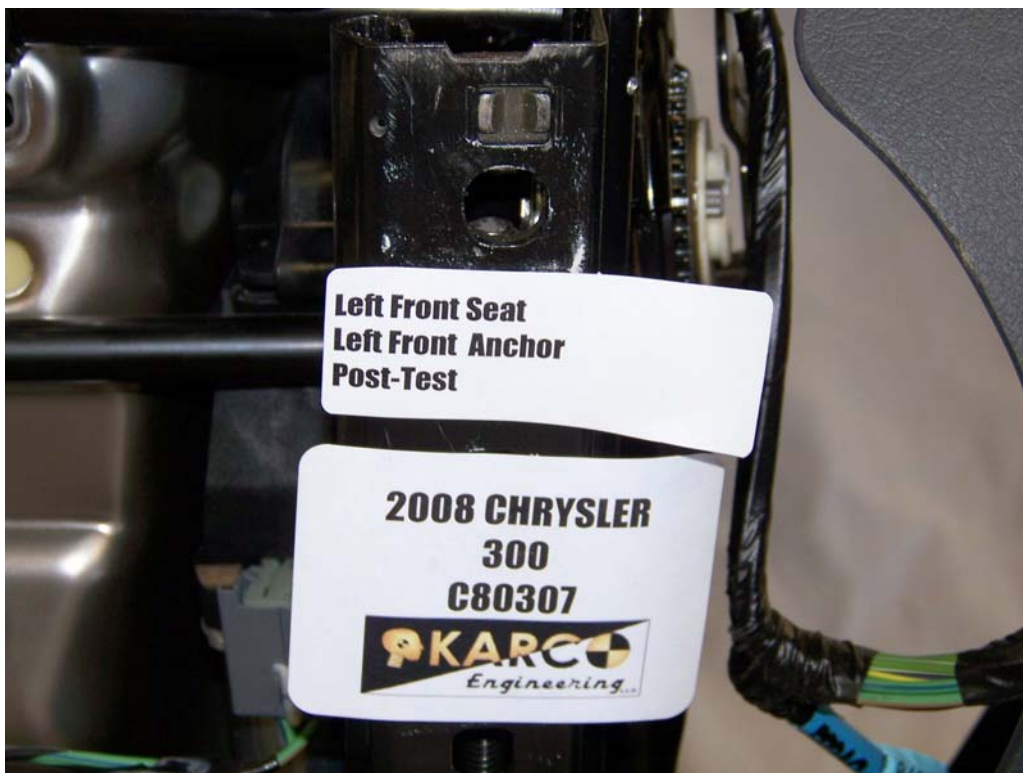


FIGURE 42. Seat Anchor, P1, Post-Test



FIGURE 43. Floor Pan Anchor, P1, Pre-Test



FIGURE 44. Floor Pan Anchor, P1, Post-Test



FIGURE 45. Seat Anchor, P1, Pre-Test



FIGURE 46. Seat Anchor, P1, Post-Test



FIGURE 47. Floor Pan Anchor, P1, Pre-Test



FIGURE 48. Floor Pan Anchor, P1, Post-Test



FIGURE 49. Seat Anchor, P1, Pre-Test



FIGURE 50. Seat Anchor, P1, Post-Test



FIGURE 51. Floor Pan Anchor, P1, Pre-Test



FIGURE 52. Floor Pan Anchor, P1, Post-Test



FIGURE 53. Seat Anchor, P1, Pre-Test



FIGURE 54. Seat Anchor, P1, Post-Test



FIGURE 55. Shoulder Belt Anchor, P1, Pre-Test



FIGURE 56. Shoulder Belt Anchor, P1, Post-Test



FIGURE 57. Shoulder Belt Anchor, P1, Pre-Test



FIGURE 58. Shoulder Belt Anchor, P1, Post-Test



FIGURE 59. Belt Anchor, P1, Pre-Test



FIGURE 60. Belt Anchor, P1, Post-Test



FIGURE 61. Belt Anchor, P1, Pre-Test



FIGURE 62. Belt Anchor, P1, Post-Test



FIGURE 63. Floor Pan Anchors, P2 Overall, Pre-Test



FIGURE 64. Floor Pan Anchors, P2 Overall, Post-Test

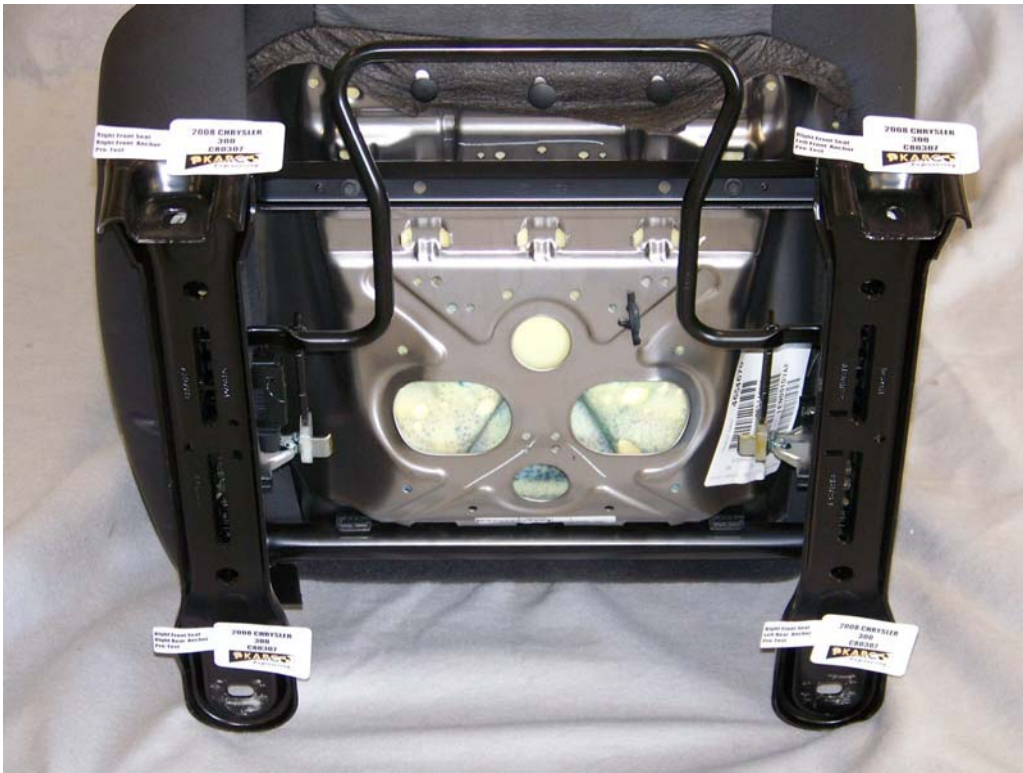


FIGURE 65. Seat Anchors, P2 Overall, Pre-Test



FIGURE 66. Seat Anchors, P2 Overall, Post-Test



FIGURE 67. Floor Pan Anchor, P2, Pre-Test



FIGURE 68. Floor Pan Anchor, P2, Post-Test



FIGURE 69. Seat Anchor, P2, Pre-Test



FIGURE 70. Seat Anchor, P2, Post-Test

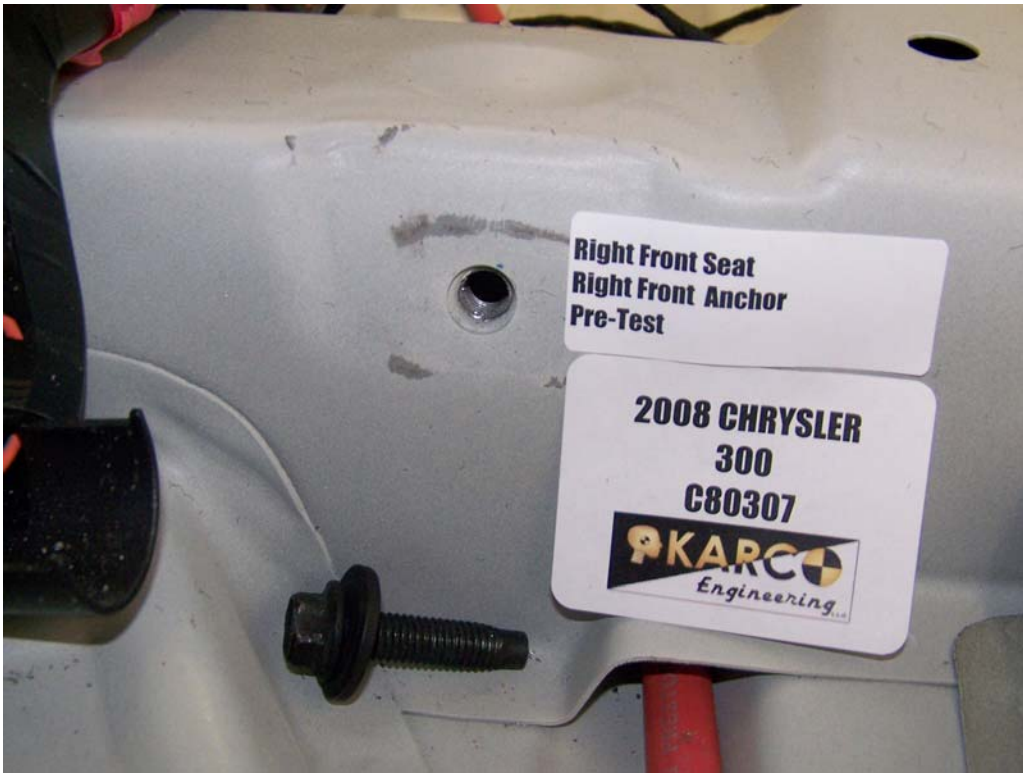


FIGURE 71. Floor Pan Anchor, P2, Pre-Test



FIGURE 72. Floor Pan Anchor, P2, Post-Test



FIGURE 73. Seat Anchor, P2 , Pre-Test



FIGURE 74. Seat Anchor, P2, Post-Test



FIGURE 75. Floor Pan Anchor, P2, Pre-Test



FIGURE 76. Floor Pan Anchor, P2, Post-Test



FIGURE 77. Seat Anchor, P2, Pre-Test



FIGURE 78. Seat Anchor, P2, Post-Test



FIGURE 79. Floor Pan Anchor, P2, Pre-Test



FIGURE 80. Floor Pan Anchor, P2, Post-Test



FIGURE 81. Seat Anchor, P2, Pre-Test



FIGURE 82. Seat Anchor, P2, Post-Test



FIGURE 83. Shoulder Belt Anchor, P2, Pre-Test



FIGURE 84. Shoulder Belt Anchor, P2, Post-Test



FIGURE 85. Shoulder Belt Anchor, P2, Pre-Test



FIGURE 86. Shoulder Belt Anchor, P2, Post-Test



FIGURE 87. Belt Anchor, P2, Pre-Test



FIGURE 88. Belt Anchor, P2, Post-Test



FIGURE 89. Belt Anchor, P2, Pre-Test



FIGURE 90. Belt Anchor, P2, Post-Test

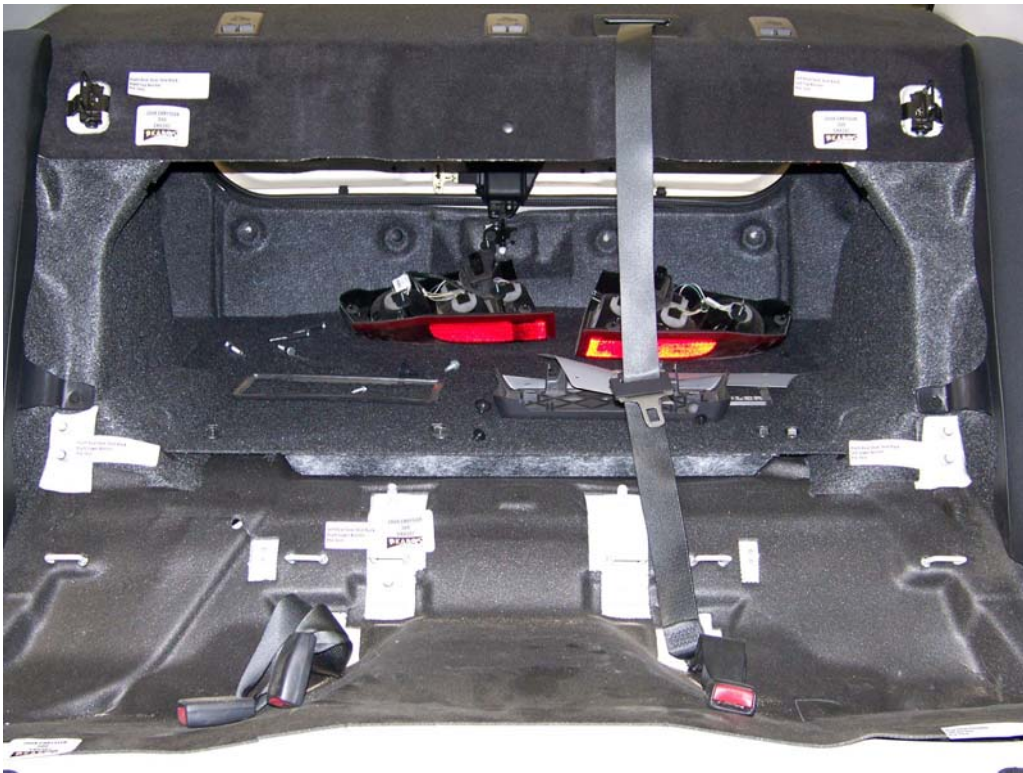


FIGURE 91. Floor Pan Anchors, P3 & P4, Pre-Test



FIGURE 92. Floor Pan Anchors, P3 & P4, Post-Test



FIGURE 93. Seat Back Anchors, P4 Overall, Pre-Test



FIGURE 94. Seat Back Anchors, P4 Overall, Post-Test



FIGURE 95. Floor Pan Anchor, P4, Pre-Test



FIGURE 96. Floor Pan Anchor, P4, Post-Test



FIGURE 97. Seat Back Anchor, P4, Pre-Test



FIGURE 98. Seat Back Anchor, P4, Post-Test



FIGURE 99. Floor Pan Anchor, P4, Pre-Test



FIGURE 100. Floor Pan Anchor, P4, Post-Test



FIGURE 101. Seat Back Anchor, P4, Pre-Test



FIGURE 102. Seat Back Anchor, P4, Post-Test



FIGURE 103. Floor Pan Anchor, P4, Pre-Test



FIGURE 104. Floor Pan Anchor, P4, Post-Test



FIGURE 105. Seat Back Anchor, P4, Pre-Test



FIGURE 106. Seat Back Anchor, P4, Post-Test



FIGURE 107. Seat Back Anchors, P3 Overall, Pre-Test



FIGURE 108. Seat Back Anchors, P3 Overall, Post-Test



FIGURE 109. Floor Pan Anchor, P3, Pre-Test



FIGURE 110. Floor Pan Anchor, P3, Post-Test



FIGURE 111. Seat Back Anchor, P3, Pre-Test



FIGURE 112. Seat Back Anchor, P3, Post-Test



FIGURE 113. Floor Pan Anchor, P3, Pre-Test



FIGURE 114. Floor Pan Anchor, P3, Post-Test



FIGURE 115. Seat Back Anchor, P3, Pre-Test



FIGURE 116. Seat Back Anchor, P3, Post-Test



FIGURE 117. Seat Cushion Anchors, P3 & P4, Pre-Test



FIGURE 118. Seat Cushion Anchor, P3-P4, Post-Test



FIGURE 119. Floor Pan Anchor, P4, Pre-Test



FIGURE 120. Floor Pan Anchor, P4, Post-Test



FIGURE 121. Seat Cushion Anchor, P4, Pre-Test



FIGURE 122. Seat Cushion Anchor, P4, Post-Test



FIGURE 123. Floor Pan Anchor, P3, Pre-Test



FIGURE 124. Floor Pan Anchor, P3, Post-Test

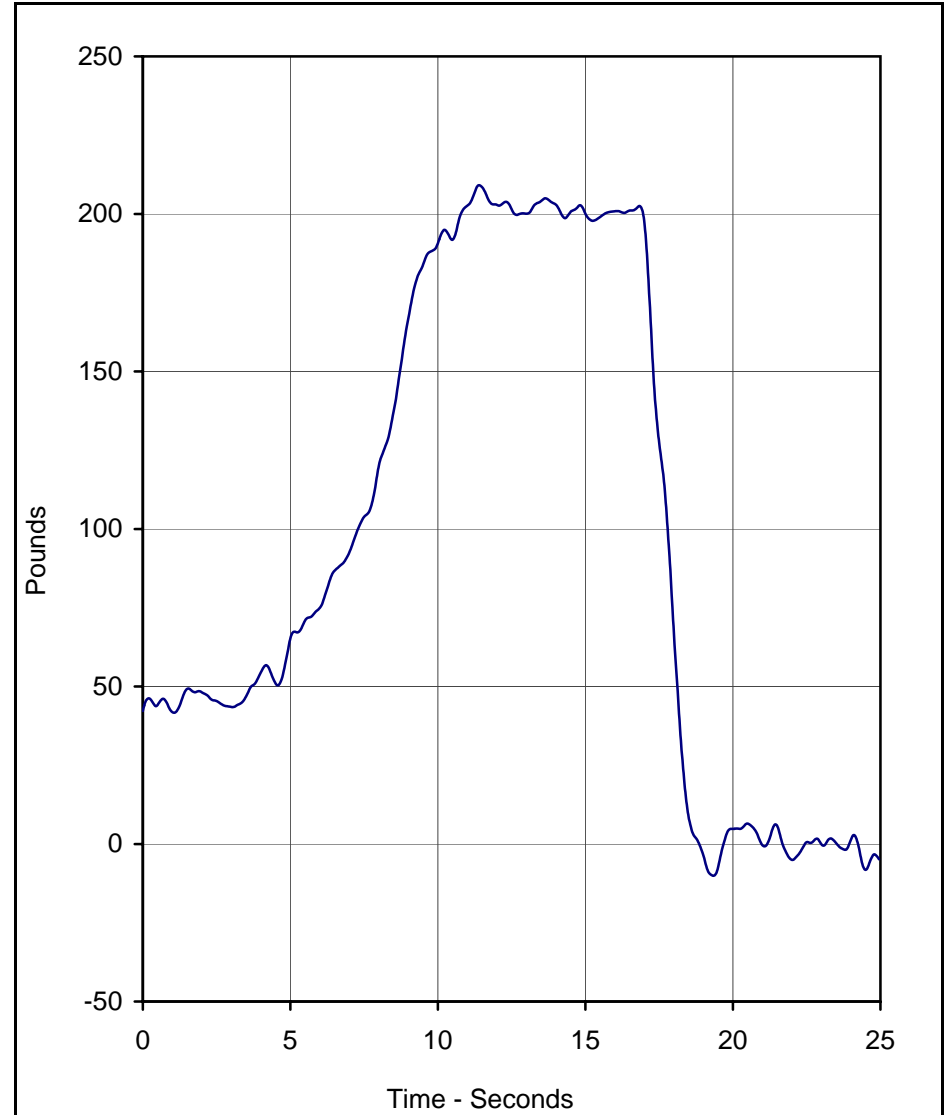
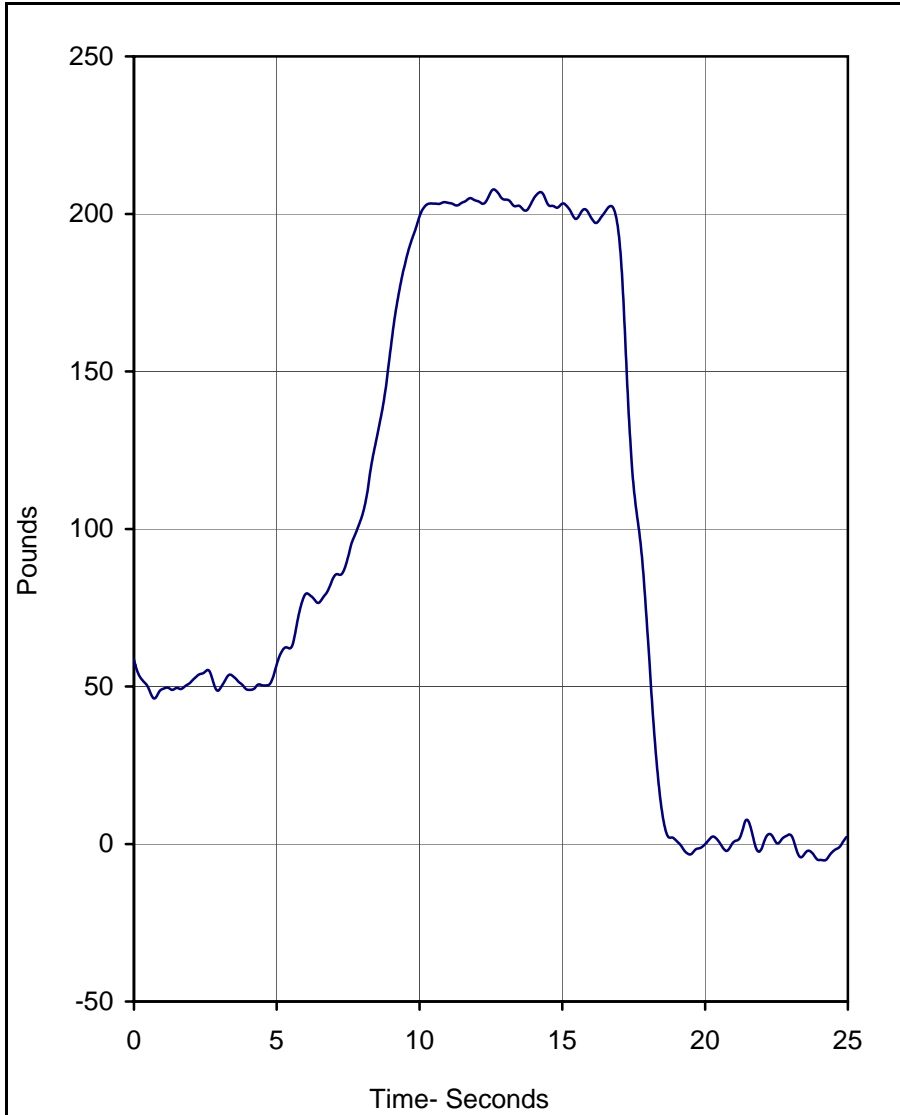


FIGURE 125. Seat Cushion Anchor, P3, Pre-Test



FIGURE 126. Seat Cushion Anchor, P3, Post-Test

APPENDIX B
DATA PLOTS



| | | |
|-------------------|-------|------|
| Curve Description | CURNO | Type |
| Driver Seat | 001 | FIL |

| | | |
|-------------------|-------|------|
| Curve Description | CURNO | Type |
| Passenger Seat | 002 | FIL |

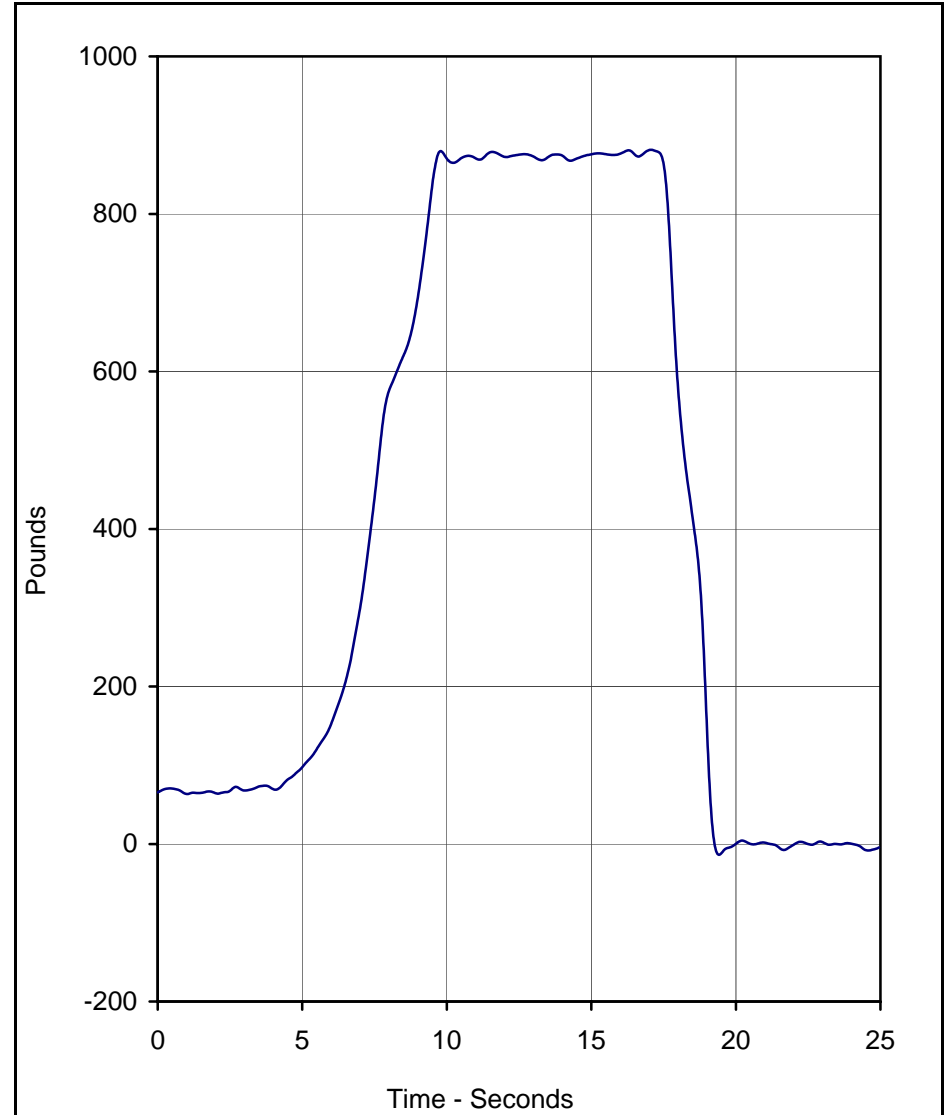
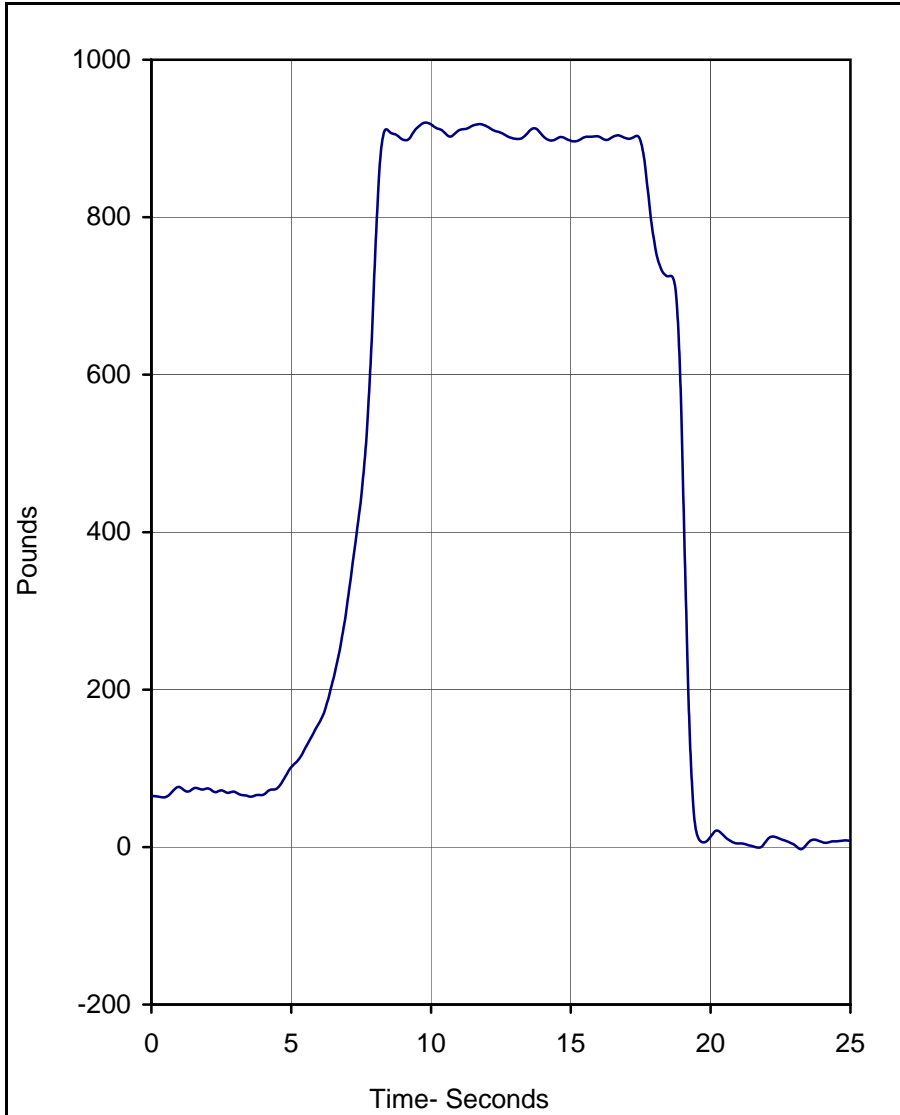
| Units | Max | Time | Min | Time | Filter (Hz) |
|--------|-------|------|------|------|-------------|
| Pounds | 207.8 | 12.6 | -5.2 | 24.2 | 1 |

| Units | Max | Time | Min | Time | Filter (Hz) |
|--------|-------|------|-------|------|-------------|
| Pounds | 209.1 | 11.4 | -10.1 | 19.4 | 1 |

Test Program: FMVSS 207 Aft Moment (Front)
 Test Vehicle: 2008 Chrysler 300 4-Door Sedan

Test Date: 8/19/08
 Project No.: C80307





| | | |
|-------------------|-------|------|
| Curve Description | CURNO | Type |
| Driver Seat | 001 | FIL |

| | | |
|-------------------|-------|------|
| Curve Description | CURNO | Type |
| Passenger Seat | 002 | FIL |

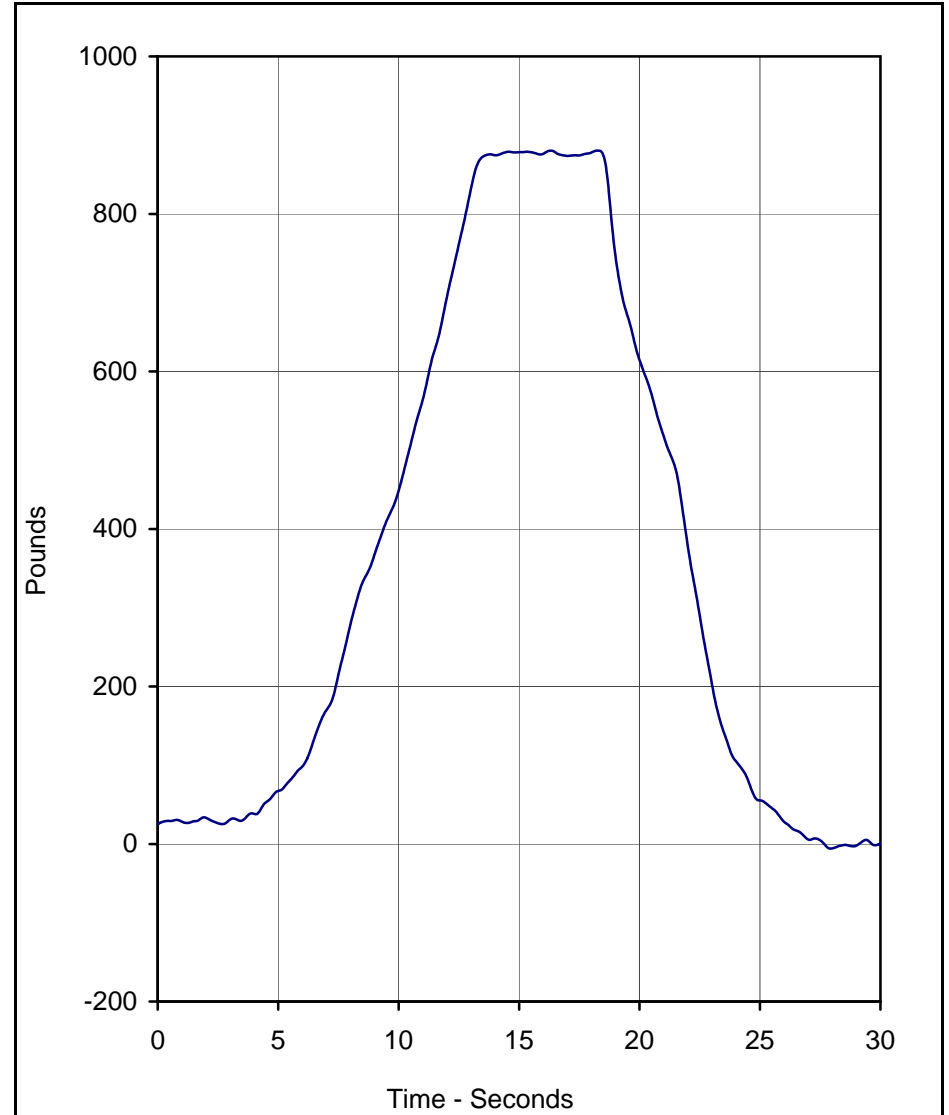
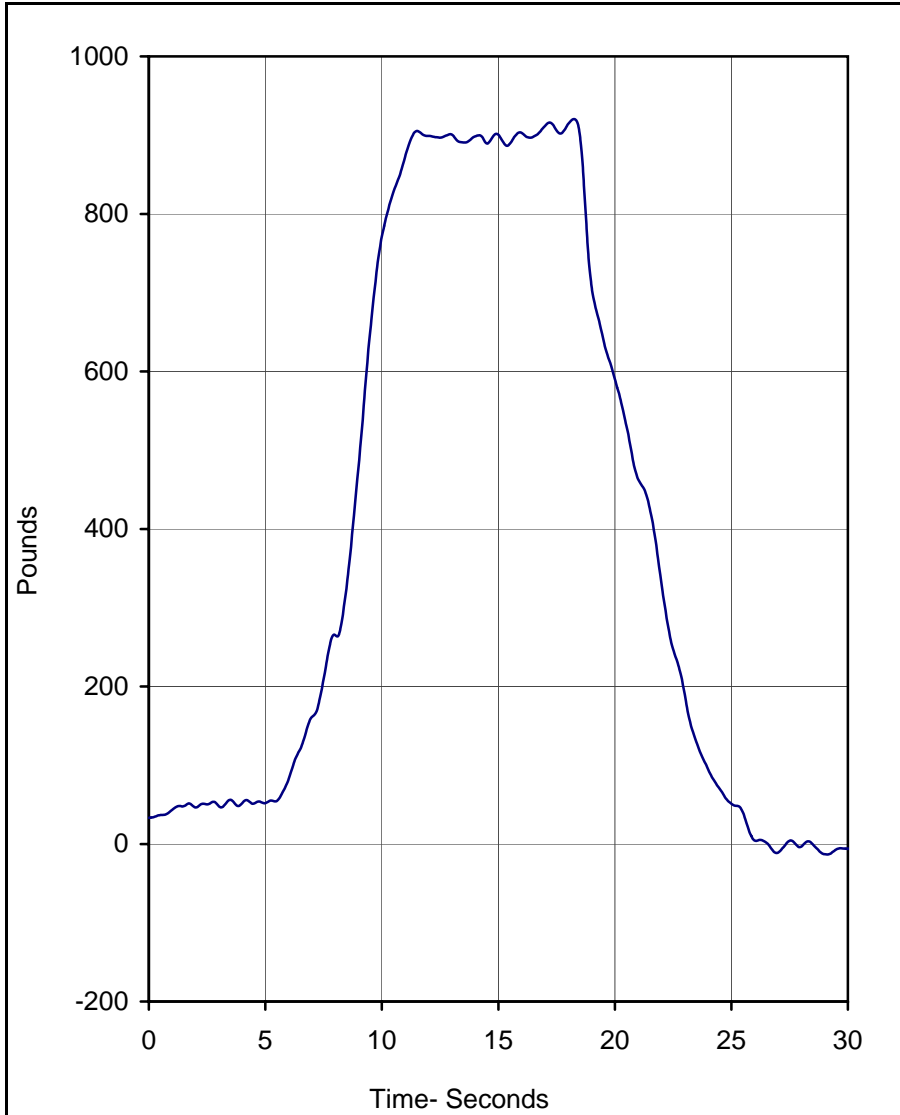
| Units | Max | Time | Min | Time | Filter (Hz) |
|--------|-------|------|------|------|-------------|
| Pounds | 920.2 | 9.8 | -2.6 | 23.3 | 1 |

| Units | Max | Time | Min | Time | Filter (Hz) |
|--------|-------|------|-------|------|-------------|
| Pounds | 881.4 | 17.1 | -13.6 | 19.4 | 1 |

Test Program: FMVSS 207 Aft Seat Frame and Adj. (Front)
 Test Vehicle: 2008 Chrysler 300 4-Door Sedan

Test Date: 8/21/08
 Project No.: C80307





| | | |
|-----------------------------------|-------|------|
| Curve Description | CURNO | Type |
| Driver Seat Assembly Forward Load | 001 | FIL |

| | | |
|--------------------------------------|-------|------|
| Curve Description | CURNO | Type |
| Passenger Seat Assembly Forward Load | 002 | FIL |

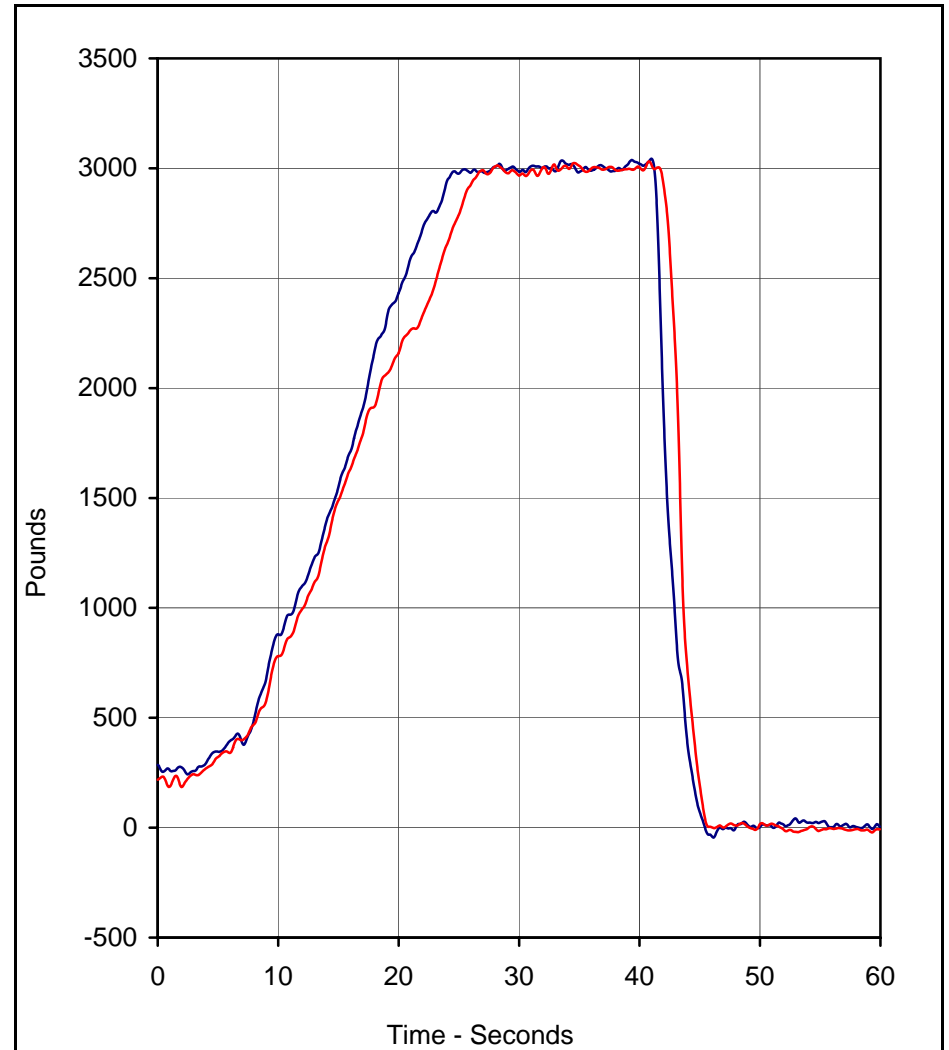
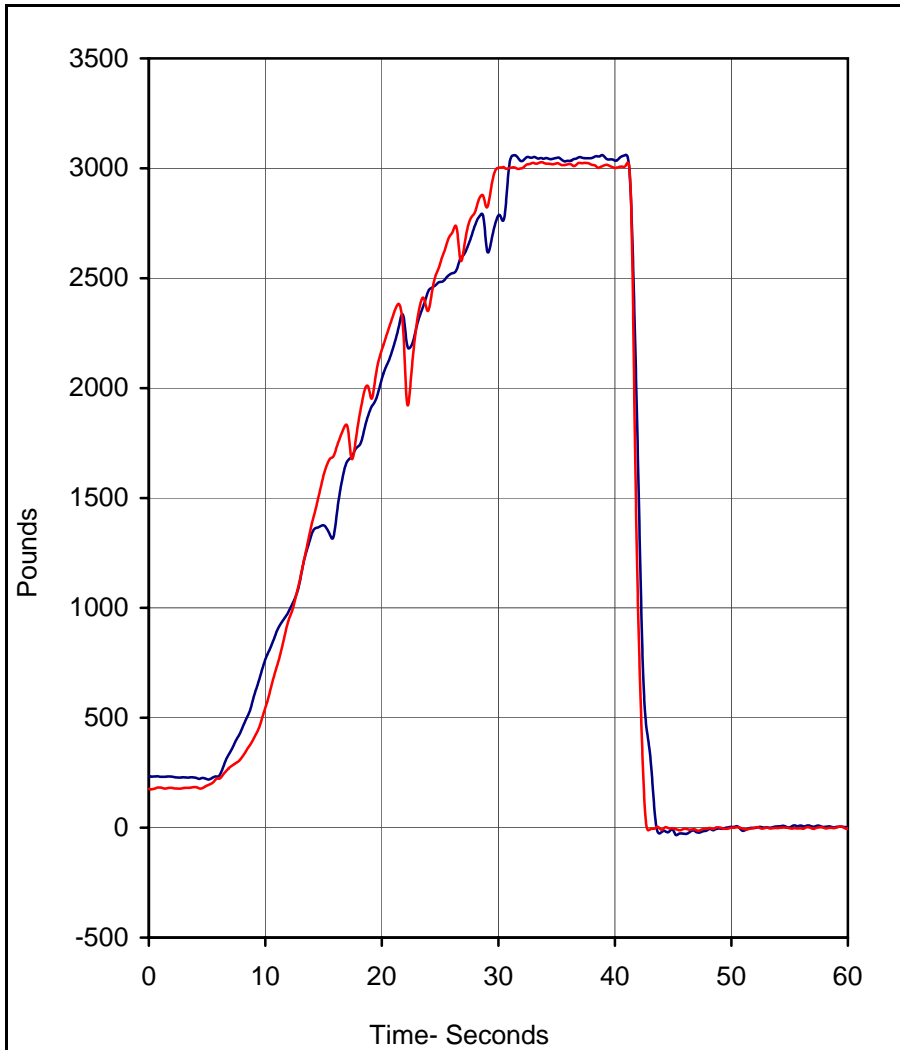
| Units | Max | Time | Min | Time | Filter (Hz) |
|--------|-------|------|------|------|-------------|
| Pounds | 920.5 | 18.3 | 33.2 | 0.0 | 1 |

| Units | Max | Time | Min | Time | Filter (Hz) |
|--------|-------|------|------|------|-------------|
| Pounds | 880.4 | 16.3 | 25.2 | 2.7 | 1 |

Test Program: FMVSS 207 Fwd Seat Frame and Adj. (Front)
 Test Vehicle: 2008 Chrysler 300 4-Door Sedan

Test Date: 8/25/08
 Project No.: C80307





| Curve Description | CURNO | Type |
|-----------------------|-------|------|
| Driver Lap Force | 001 | FIL |
| Driver Shoulder Force | 002 | FIL |

| Curve Description | CURNO | Type |
|--------------------------|-------|------|
| Passenger Lap Force | 004 | FIL |
| Passenger Shoulder Force | 005 | FIL |

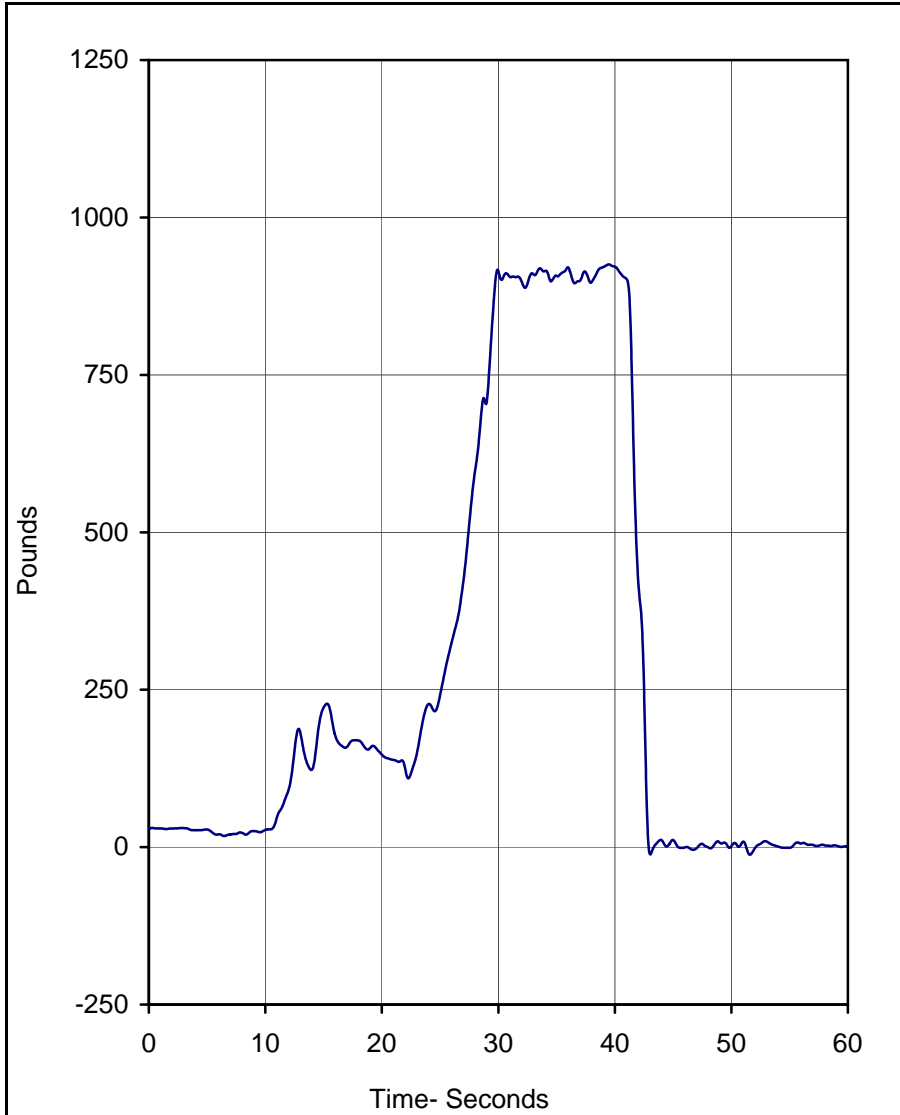
| Units | Max | Time | Min | Time | Filter (Hz) |
|--------|--------|------|-------|------|-------------|
| Pounds | 3061.1 | 41.0 | -34.0 | 45.3 | 1 |
| Pounds | 3027.8 | 33.7 | -14.0 | 47.2 | 1 |

| Units | Max | Time | Min | Time | Filter (Hz) |
|--------|--------|------|-------|------|-------------|
| Pounds | 3043.4 | 41.0 | -44.9 | 46.2 | 1 |
| Pounds | 3031.5 | 40.8 | -21.6 | 59.3 | 1 |

Test Program: FMVSS 207/210 Front Seats
 Test Vehicle: 2008 Chrysler 300 4-Door Sedan

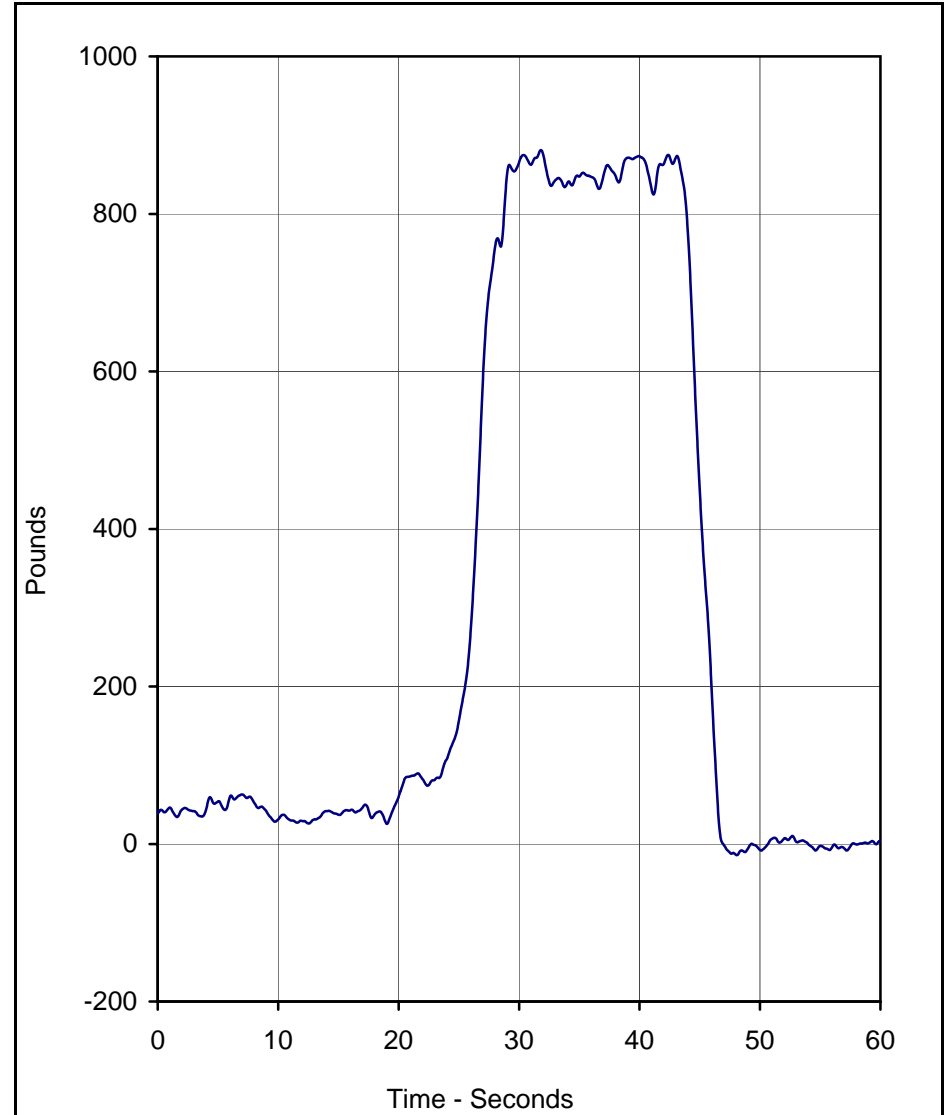
Test Date: 8/29/08
 Project No.: C80307





| | | |
|-------------------|-------|------|
| Curve Description | CURNO | Type |
| Driver Seat Force | 003 | FIL |

| Units | Max | Time | Min | Time | Filter (Hz) |
|--------|-------|------|-------|------|-------------|
| Pounds | 925.4 | 39.5 | -12.2 | 51.6 | 1 |



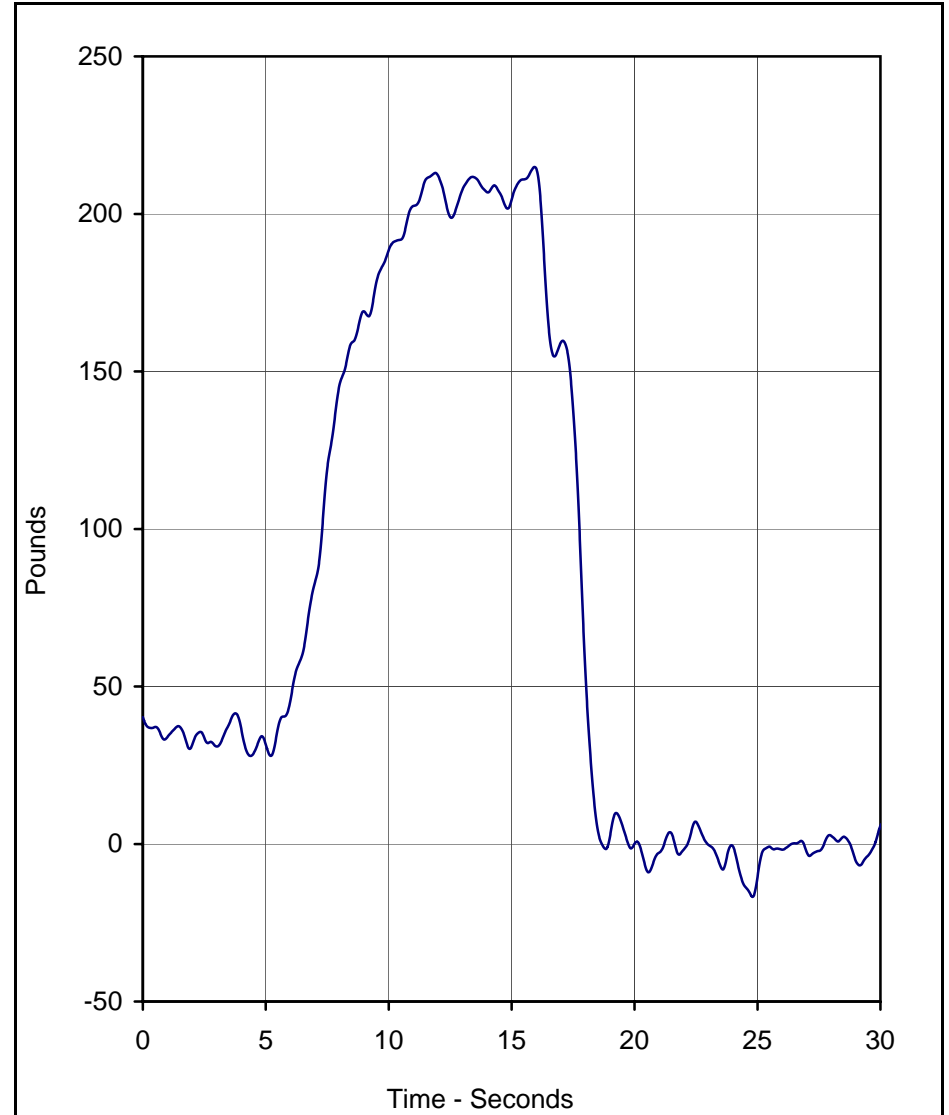
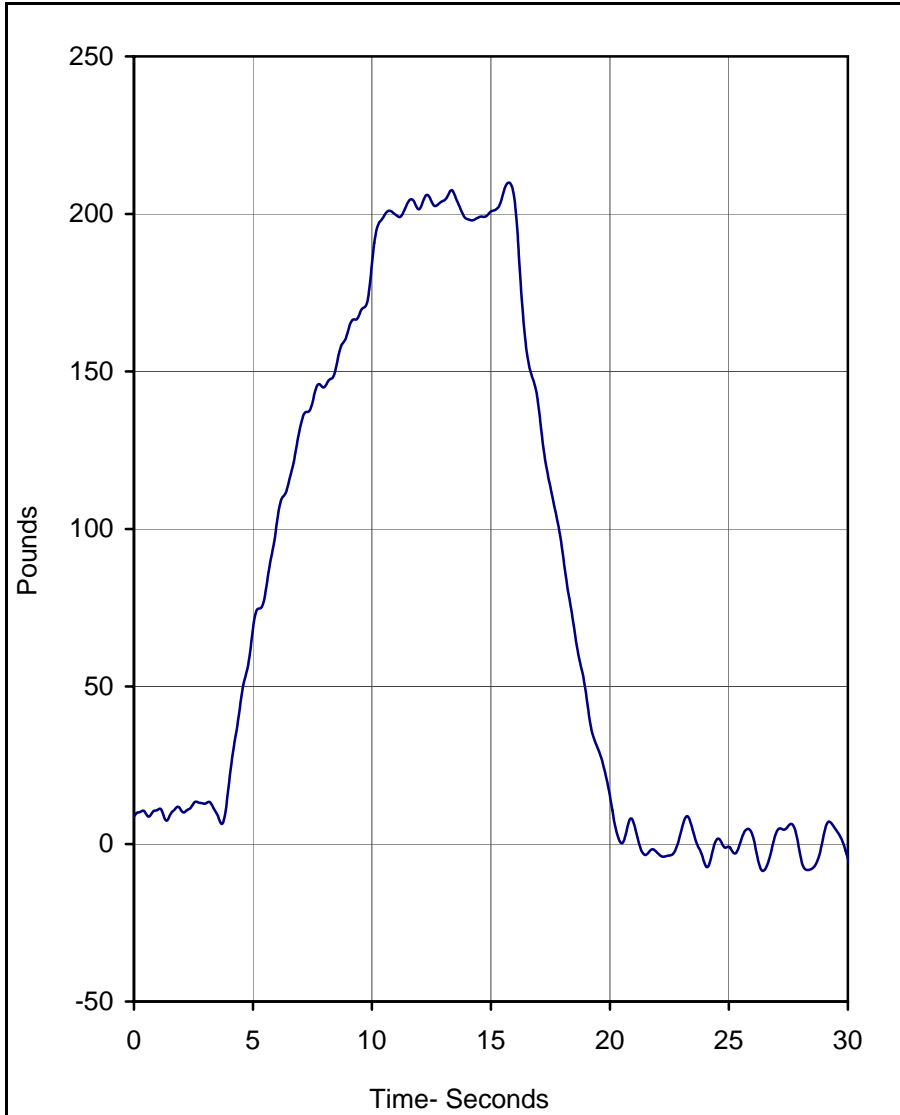
| | | |
|----------------------|-------|------|
| Curve Description | CURNO | Type |
| Passenger Seat Force | 006 | FIL |

| Units | Max | Time | Min | Time | Filter (Hz) |
|--------|-------|------|-------|------|-------------|
| Pounds | 880.9 | 31.8 | -14.1 | 48.1 | 1 |

Test Program: FMVSS 207/210 Front Seats
 Test Vehicle: 2008 Chrysler 300 4-Door Sedan

Test Date: 8/29/08
 Project No.: C80307





| | | |
|-------------------|-------|------|
| Curve Description | CURNO | Type |
| Left Rear Seat | 001 | FIL |

| | | |
|-------------------|-------|------|
| Curve Description | CURNO | Type |
| Right Rear Seat | 002 | FIL |

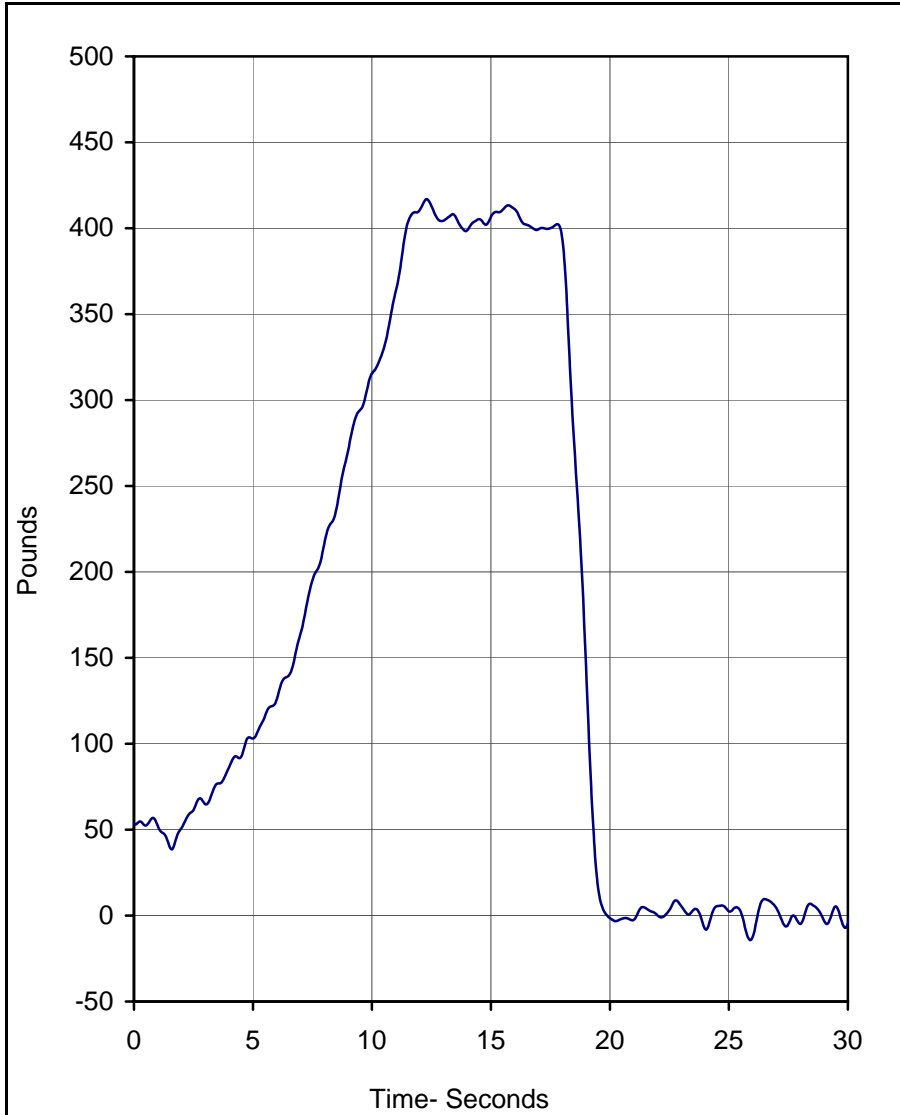
| Units | Max | Time | Min | Time | Filter (Hz) |
|--------|-------|------|------|------|-------------|
| Pounds | 209.9 | 15.8 | -7.3 | 24.1 | 1 |

| Units | Max | Time | Min | Time | Filter (Hz) |
|--------|-------|------|-------|------|-------------|
| Pounds | 214.9 | 16.0 | -16.8 | 24.8 | 1 |

Test Program: FMVSS 207 Aft Moment (Rear Seats)
 Test Vehicle: 2008 Chrysler 300 4-Door Sedan

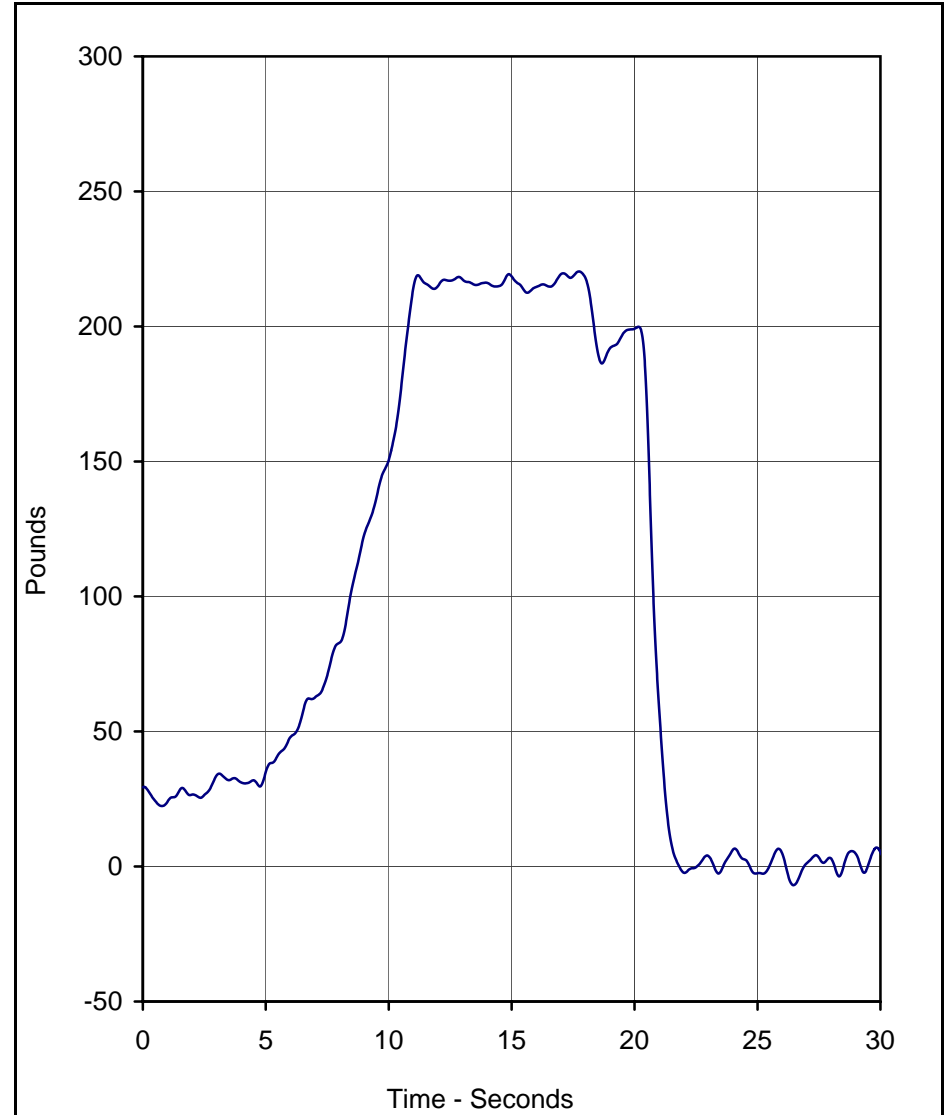
Test Date: 9/2/08
 Project No.: C80307





| | | |
|-------------------|-------|------|
| Curve Description | CURNO | Type |
| Left Rear Seat | 001 | FIL |

| Units | Max | Time | Min | Time | Filter (Hz) |
|--------|-------|------|------|------|-------------|
| Pounds | 416.9 | 12.3 | -8.2 | 24.1 | 1 |



| | | |
|-------------------|-------|------|
| Curve Description | CURNO | Type |
| Right Rear Seat | 002 | FIL |

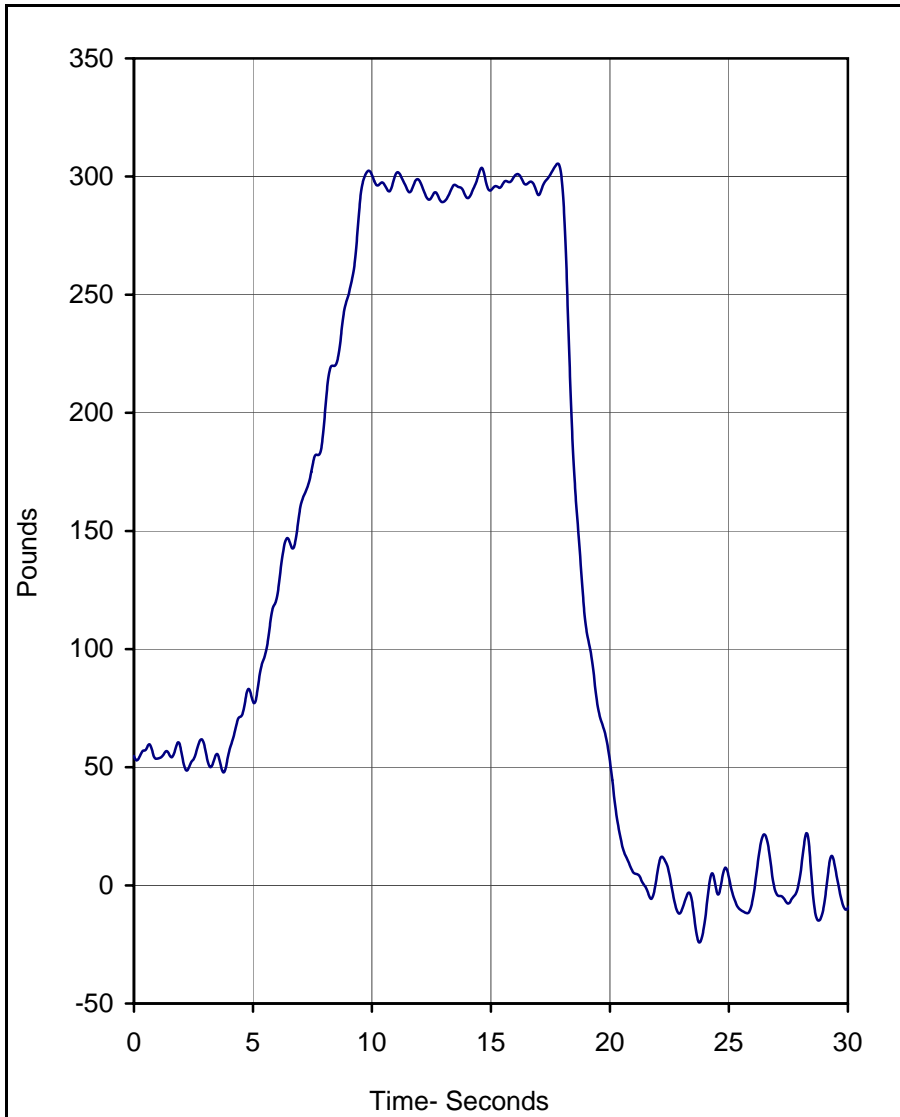
| Units | Max | Time | Min | Time | Filter (Hz) |
|--------|-------|------|------|------|-------------|
| Pounds | 220.4 | 17.8 | -2.6 | 24.9 | 1 |

Test Program: FMVSS 207 Aft Load Seat Back (Rear)
 Test Vehicle: 2008 Chrysler 300 4-Door Sedan

Test Date: 9/2/08
 Project No.: C80307



B-8



| | | |
|-------------------|-------|------|
| Curve Description | CURNO | Type |
| Seat Cushion | 001 | FIL |

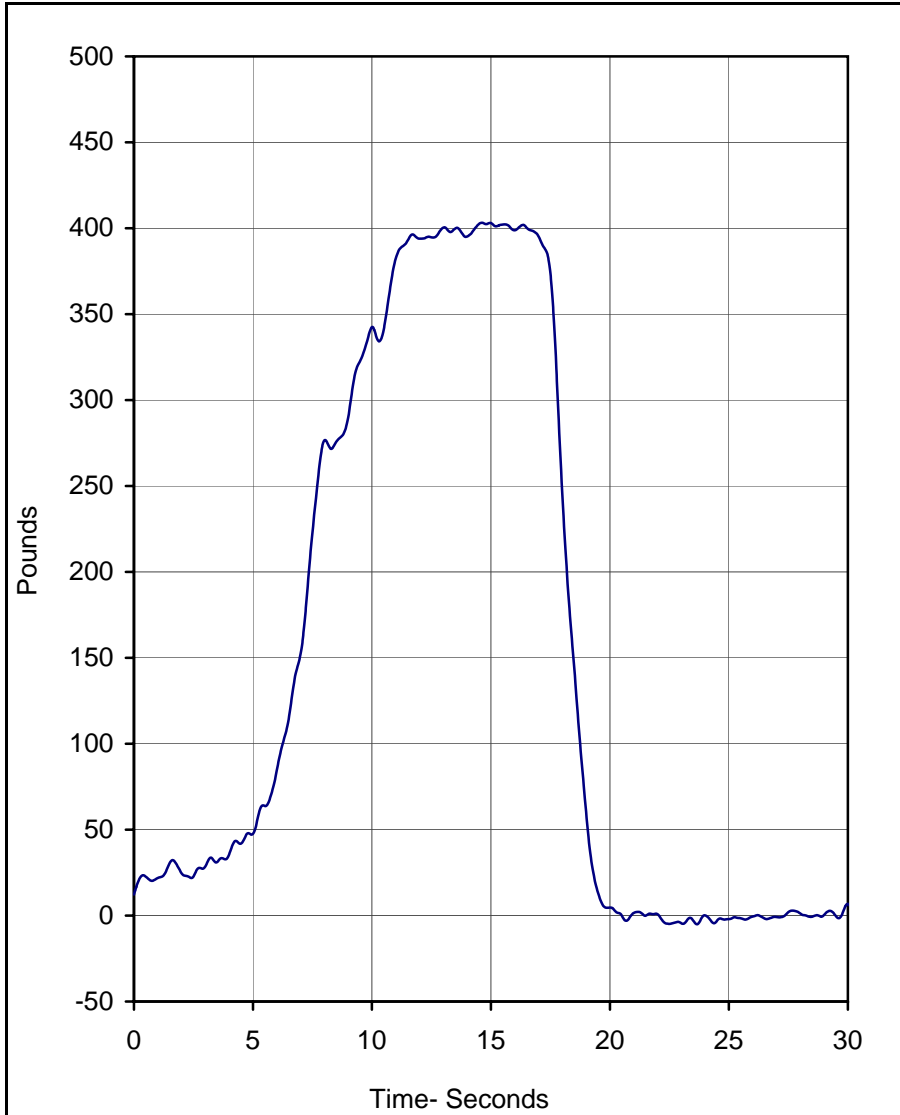
| Units | Max | Time | Min | Time | Filter (Hz) |
|--------|-------|------|-------|------|-------------|
| Pounds | 305.5 | 17.8 | -24.1 | 23.8 | 1 |

Test Program: FMVSS 207 Aft Load (Rear)
 Test Vehicle: 2008 Chrysler 300 4-Door Sedan

Test Date: 9/2/08
 Project No.: C80307

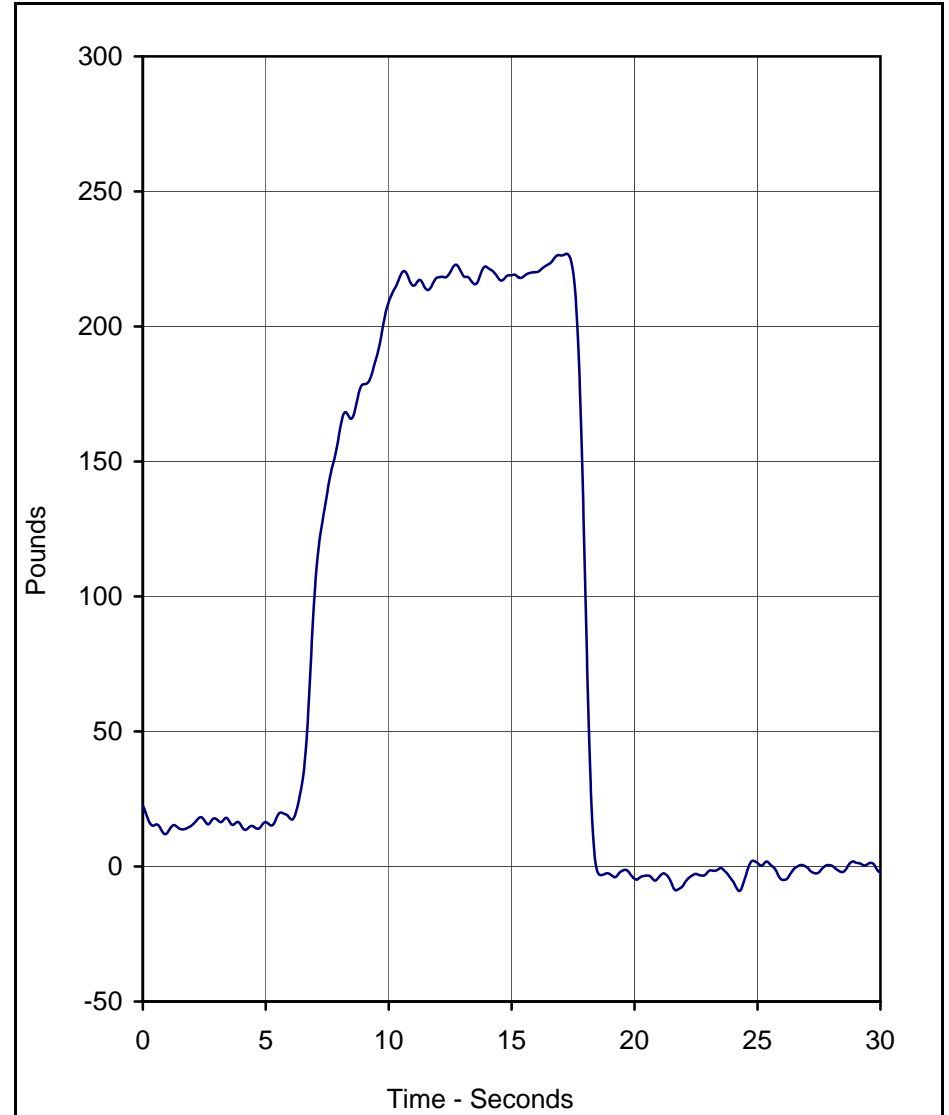


207-KAR-07-001-NC



| | | |
|-------------------|-------|------|
| Curve Description | CURNO | Type |
| Left Rear Seat | 001 | FIL |

| Units | Max | Time | Min | Time | Filter (Hz) |
|--------|-------|------|------|------|-------------|
| Pounds | 403.2 | 14.6 | -5.0 | 23.7 | 1 |



| | | |
|-------------------|-------|------|
| Curve Description | CURNO | Type |
| Right Rear Seat | 002 | FIL |

| Units | Max | Time | Min | Time | Filter (Hz) |
|--------|-------|------|------|------|-------------|
| Pounds | 226.9 | 17.3 | -9.1 | 24.3 | 1 |

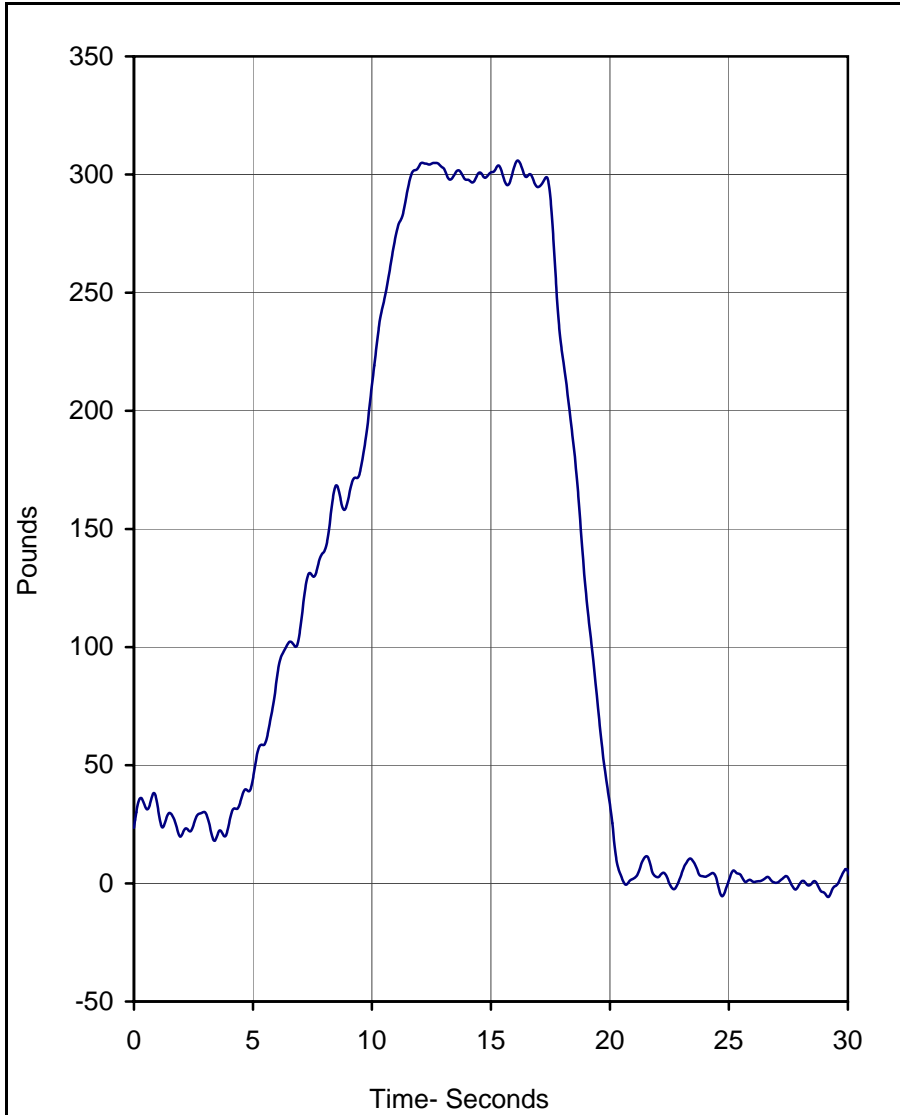
Test Program: FMVSS 207 Forward Load Seat Back (Rear)
 Test Vehicle: 2008 Chrysler 300 4-Door Sedan

Test Date: 9/2/08
 Project No.: C80307



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| | | |
|-------------------|-------|------|
| Curve Description | CURNO | Type |
| Seat Cushion | 001 | FIL |

| Units | Max | Time | Min | Time | Filter (Hz) |
|--------|-------|------|------|------|-------------|
| Pounds | 305.9 | 16.2 | -5.3 | 24.7 | 1 |

Test Program: FMVSS 207 Fwd Load (Rear)
Test Vehicle: 2008 Chrysler 300 4-Door Sedan

Test Date: 9/2/08
Project No.: C80307



APPENDIX C

TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

FMVSS 207
Test Equipment List
8/19/08
2008 Chrysler 300 4-Door Sedan

| Description | Manufacturer | Model No. | Serial No. | Limit | Accuracy | Cal. Date | Due Cal. |
|----------------|--------------|-----------|------------|------------------|----------|-----------|----------|
| Hydraulic Pump | Lincoln | T-3825-C | 2460952 | 8 gpm @ 2700 psi | | | |
| Computer | Panasonic | CF-71 | 8IMAA01852 | N/A | N/A | N/A | N/A |
| TDAS | DTS | TDAS | DM0103 | N/A | SAE J211 | 11/14/07 | 11/13/08 |
| Load Cell | Interface | 1220-FS | 50k1 | 50K | ± 1.0% | 5/20/08 | 11/18/08 |
| Load Cell | Interface | 1220-FS | 50k2 | 50K | ± 1.0% | 5/20/08 | 11/18/08 |
| Load Cell | BLH | U3G1 | 49296 | 3K | ± 1.0% | 5/22/08 | 11/20/08 |
| Load Cell | BLH | U-1C | N873 | 6K | ± 1.0% | 5/20/08 | 11/18/08 |
| Load Cell | BLH | U-1C | 11139 | 12K | ± 1.0% | 5/20/08 | 11/18/08 |
| Load Cell | Alinco | 342-E | 22438-B | 10K | ± 1.0% | 5/22/08 | 11/20/08 |
| Load Cell | Alinco | 342-E | 22440-A | 10K | ± 1.0% | 5/22/08 | 11/20/08 |
| Load Cell | BLH | U3G1 | 81711A | 10K | ± 1.0% | 5/22/08 | 11/20/08 |

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