

REPORT NO. 207-KAR-10-001

**COMPLIANCE TESTING
FOR FMVSS 207**

SEATING SYSTEMS

2010 FORD TAURUS
4-DOOR SEDAN

NHTSA NO.CA0211

PREPARED BY:
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July 6, 2010

FINAL REPORT


PREPARED FOR:
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SECTION 1

PURPOSE OF COMPLIANCE TEST

1. PURPOSE OF COMPLIANCE TEST

Tests were conducted on a 2010 Ford Taurus 4-Door Sedan, manufactured by Ford Motor Corporation 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 2010 Ford Taurus 4-Door Sedan was subjected to FMVSS 207 Compliance testing on July 1 thru July 6, 2010. 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 back and cushion
- Forward load tests on rear seat back and 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 2010 Ford Taurus 4-Door Sedan on July 1 thru July 6, 2010, 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**

TEST VEHICLE INFORMATION			
YEAR	2010	MAKE	Ford
MODEL	Taurus	BODY STYLE	4-Door
NHTSA NO.	CA0211	VIN	1FAHP2DW1AG132689
BUILD DATE	12/09	TEST DATE	7/1/10 – 7/6/10
TEST LABORATORY		KARCO Engineering, LLC.	

- 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
- Verify seat adjusters are working
 Yes No
- Verify there is a seat belt at each seating position
 Yes No
- 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.
 Yes No

RESULTS OR RECEIVING INSPECTION:

PASS - - _____

FAIL - - _____

CONDITIONAL - - _____

REMARKS:

* Vehicle had previously been tested to FMVSS 111.

RECORDED BY: Mark Kratzke DATE: 7/6/10

APPROVED BY: Michael L. Dunlap DATE: 7/6/10

DATA SHEET NO. 2
SEATING SYSTEM TEST RESULTS

TEST VEHICLE INFORMATION			
YEAR	2010	MAKE	Ford
MODEL	Taurus	BODY STYLE	4-Door
NHTSA NO.	CA0211	VIN	1FAHP2DW1AG132689
BUILD DATE	12/09	TEST DATE	7/1/10 – 7/6/10
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 = 56	20 x Wa = 1120	1163.9	N/A	PASS
	Rearward	Wa = 56	20 x Wa = 1120	1124.8	N/A	PASS
Seat Back Moment	Rearward	N/A	3275 in-lb/Z	208.5	3336.0	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	880.3	N/A	PASS
	Rearward	Wa = 44	20 x Wa = 880	886.2	N/A	PASS
Seat Back Moment	Rearward	N/A	3275 in-lb/Z	206.2	3299.2	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	3030.3	PASS
Driver Shoulder Belt	Forward	N/A	3,000 lbs, +0, -50	3029.6	PASS
Passenger Lap Belt	Forward	N/A	3,000 lbs, +0, -50	3023.7	PASS
Passenger Shoulder Belt	Forward	N/A	3,000 lbs, +0, -50	3056.1	PASS
Driver Seat Assembly	Forward	Wa = 56	20 x Wa = 1120	1128.0	PASS
Passenger Seat Assembly	Forward	Wa = 44	20 x Wa = 880	889.1	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	Forward	Wb = 14	20 x Wb = 280	294.1	N/A	PASS
Seat Back Right	Forward	Wb = 28	20 x Wb = 560	566.4	N/A	PASS
Seat Cushion	Forward	Wc = 16	20 x Wc = 320	327.8	N/A	PASS
Seat Back Left	Rearward	Wb = 14	20 x Wb = 280	282.0	N/A	PASS
Seat Back Right	Rearward	Wb = 28	20 x Wb = 560	566.5	N/A	PASS
Seat Cushion	Rearward	Wc = 16	20 x Wc = 320	336.7	N/A	PASS
Seat Back Moment Left	Rearward	N/A	3275 in-lb/Z	204.9	3278.4	PASS
Seat Back Moment Right	Rearward	N/A	3275 in-lb/Z	205.1	3281.6	PASS

RECORDED BY: Mark Kratzke DATE: 7/6/10

APPROVED BY: Michael L. Dunlap DATE: 7/6/10

DATA SHEET NO. 3
SEAT BACK ANGLES

TEST VEHICLE INFORMATION			
YEAR	2010	MAKE	Ford
MODEL	Taurus	BODY STYLE	4-Door
NHTSA NO.	CA0211	VIN	1FAHP2DW1AG132689
BUILD DATE	12/09	TEST DATE	7/1/10 – 7/6/10
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	60	60	YES
	Center	30 to 75 degrees	N/A	N/A	N/A
	Right	30 to 75 degrees	60	60	YES
REAR	Left	30 to 75 degrees	N/A	N/A	YES
	Center	30 to 75 degrees	N/A	N/A	YES
	Right	30 to 75 degrees	N/A	N/A	YES

SHOULDER BELT ANCHORAGES:

SEAT	SEATING POSITION	SPECIFIED ANGLE RANGE ABOVE OR BELOW HORIZONTAL	MEASURED ANGLE
FRONT	Left	0 – 80 degrees above	12.0°
		0 – 40 degrees below	
	Right	0 – 80 degrees above	14.0°
		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: 7/6/10

APPROVED BY: Michael L. Dunlap DATE: 7/6/10

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**

TEST VEHICLE INFORMATION			
NHTSA NO.	CA0211	TEST DATE	7/1/10-7/6/10
CONTRACT NO.	DTNH22-01-C-31025	VIN	1FAHP2DW1AG132689
VEHICLE OR SEAT MANUFACTURER		Ford Motor Corporation	
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	Ford Motor Corporation	VIN	1FAHP2DW1AG132689
Manufacturing Date	12/09	Delivery Date	7/29/08
Dealer	U/N	NHTSA No.	CA0211
Odometer Reading (mi.)	454.3	Fuel Type	GAS
Engine Displacement	3.5 LITER	Cylinders	V-6
Transmission	4-Speed Automatic	Final Drive	Front
Engine Placement	Transverse	Color	White
Tire Press./Max. Cap. Front	44 PSI	Cold Tire Press. Front	38 PSI
Tire Press./Max. Cap. Rear	44 PSI	Cold Tire Press. Rear	38 PSI
Recommend Tire Size	P235/60R17	Type of Spare	T155/70D17
Tire Size on Vehicle	P235/60R17	Manufacturer	Hankook
GVWR	2386 Kg.	Cargo Capacity	431
GAWR Front	1279 Kg.	GAWR Rear	1143 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)	YES	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: 7/6/10

APPROVED BY: Michael L. Dunlap DATE: 7/6/10

APPENDIX A
PHOTOGRAPHS



FIGURE 1. Right Front ¾ View, As Received



FIGURE 2. Right Side, As Received



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



FIGURE 4. Left Side, As Received

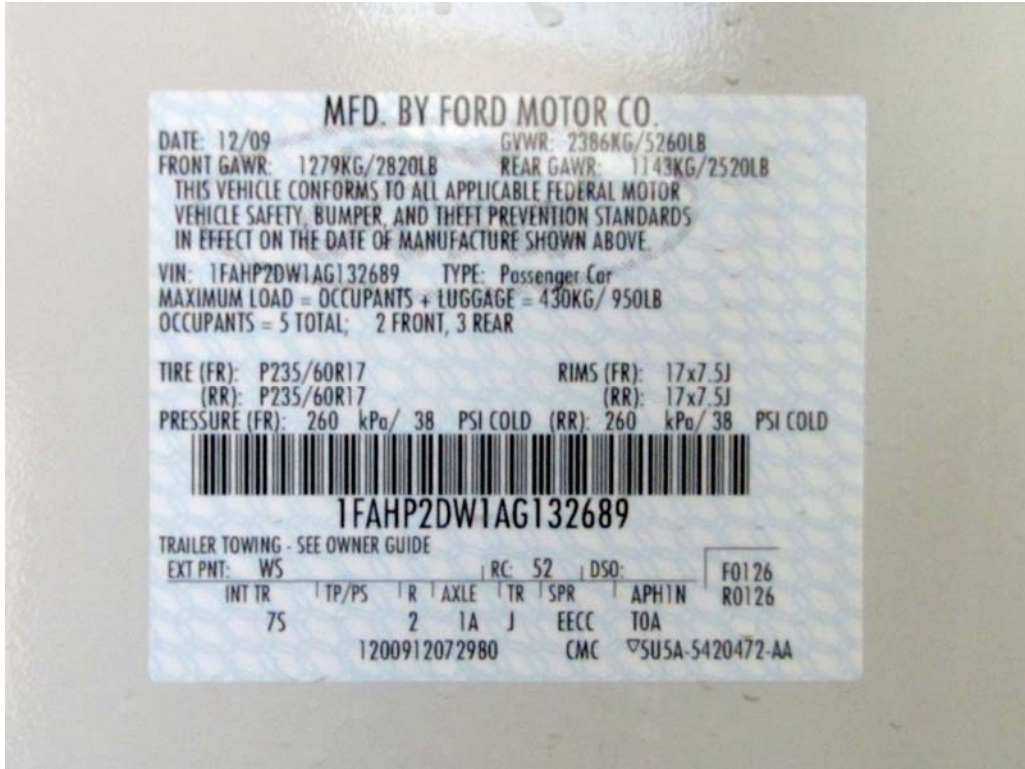


FIGURE 5. Manufacturer's Label



FIGURE 6. Vehicle Tire Placard



FIGURE 7. Vehicle Mounted in Test Fixture

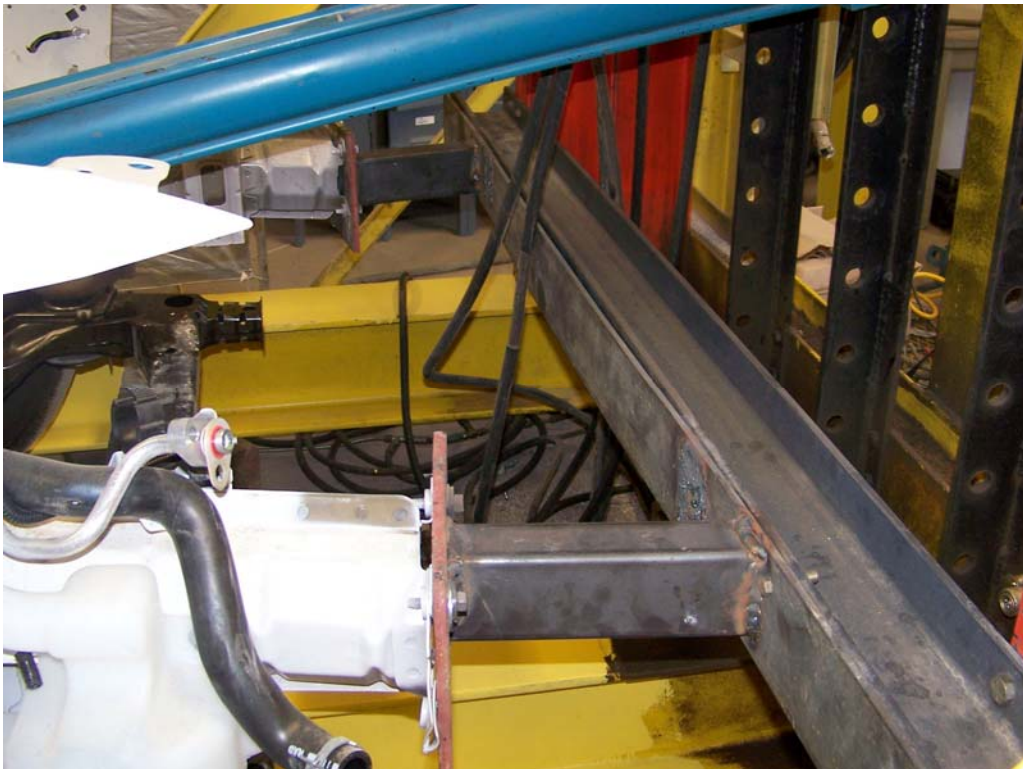


FIGURE 8. Vehicle Mounted in Test Fixture



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 on Seat Back, P4, Pre-Test



FIGURE 28. Aft Moment on 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. Aft Load Seat Back and Seat Cushion, P4, Pre-Test



FIGURE 36. Aft Load on Seat Back and Seat Cushion, P4, Post-Test



FIGURE 37. Aft Load on Seat Back and Seat Cushion, P3, Pre-Test



FIGURE 38. Aft Load on Seat Back and Seat Cushion, P3, Post-Test



FIGURE 39. Floor Pan Anchors, P1 Overall, Pre-Test



FIGURE 40. Floor Pan Anchors, P1 Overall, Post-Test

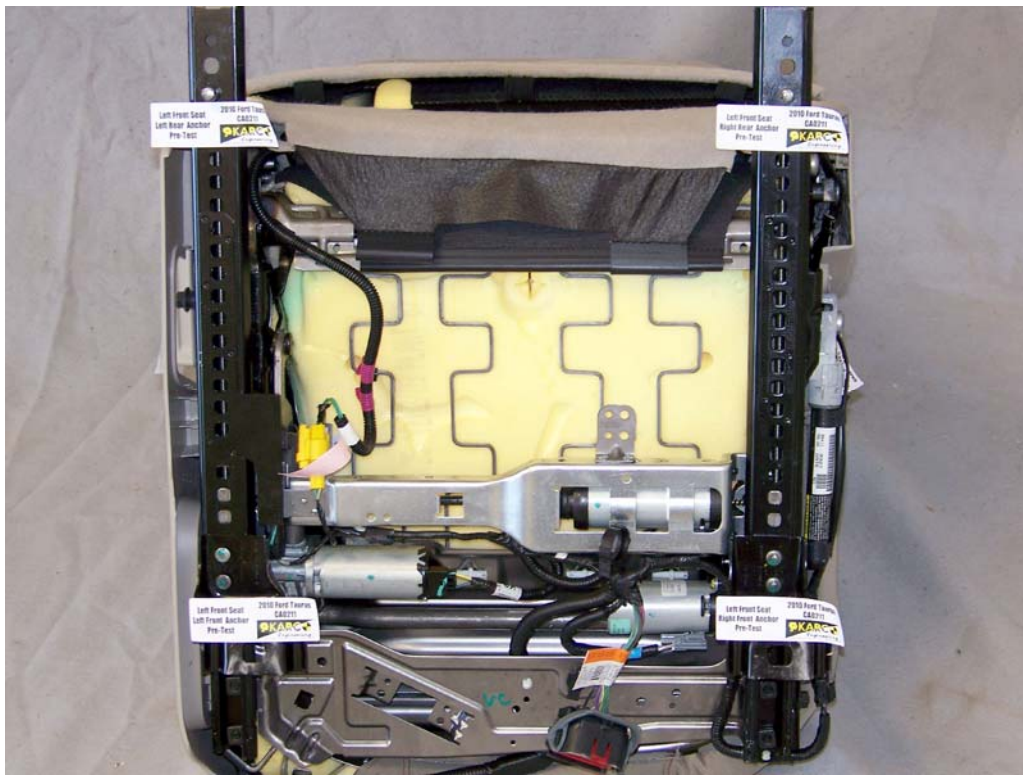


FIGURE 41. Seat Anchors, P1 Overall, Pre-Test

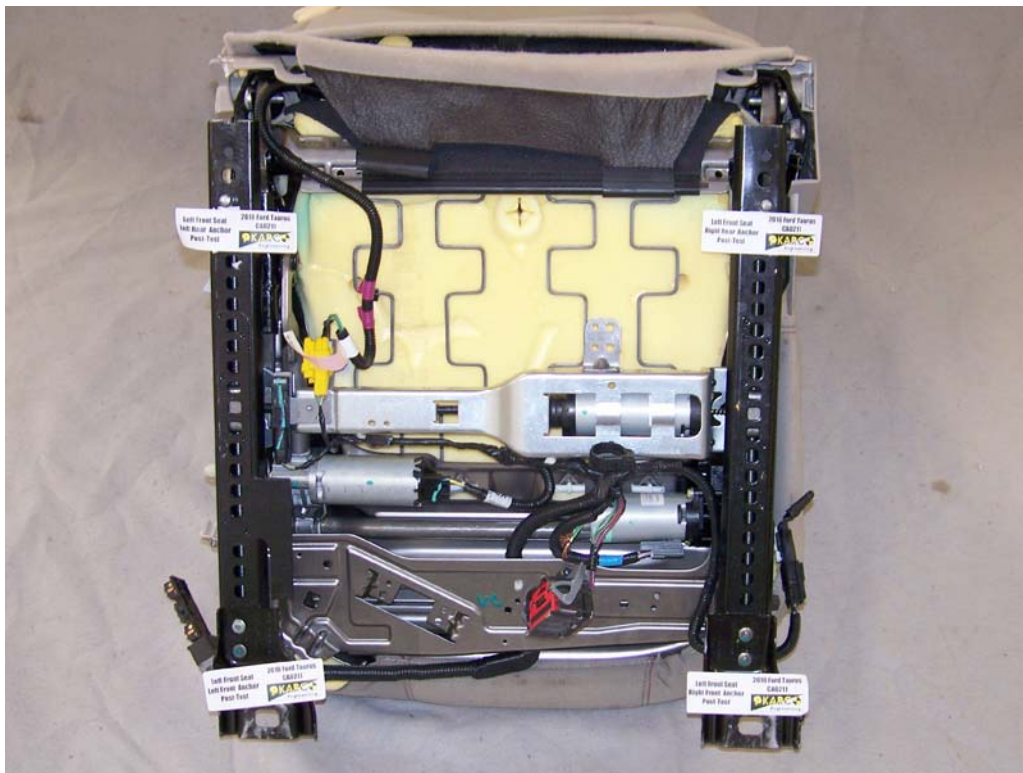


FIGURE 42. Seat Anchors, P1 Overall, Post-Test



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



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



FIGURE 45. Seat Anchors, 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. Floor Pan Anchor, P1, Pre-Test



FIGURE 56. Floor Pan Anchor, P1, Post-Test



FIGURE 57. Seat Anchor, P1, Pre-Test



FIGURE 58. Seat Anchor, P1, Post-Test



FIGURE 59. Shoulder Belt Anchor, P1, Pre-Test



FIGURE 60. Shoulder Belt Anchor, P1, Post-Test



FIGURE 61. Shoulder Belt Anchor, P1, Pre-Test



FIGURE 62. Shoulder Belt Anchor, P1, Post-Test



FIGURE 63. Belt Anchor, P1, Pre-Test



FIGURE 64. Belt Anchor, P1, Post-Test



FIGURE 65. Belt Anchor, P1, Pre-Test



FIGURE 66. Belt Anchor, P1, Post-Test



FIGURE 67. Floor Pan Anchors, P2 Overall, Pre-Test



FIGURE 68. Floor Pan Anchors, P2 Overall, Post-Test

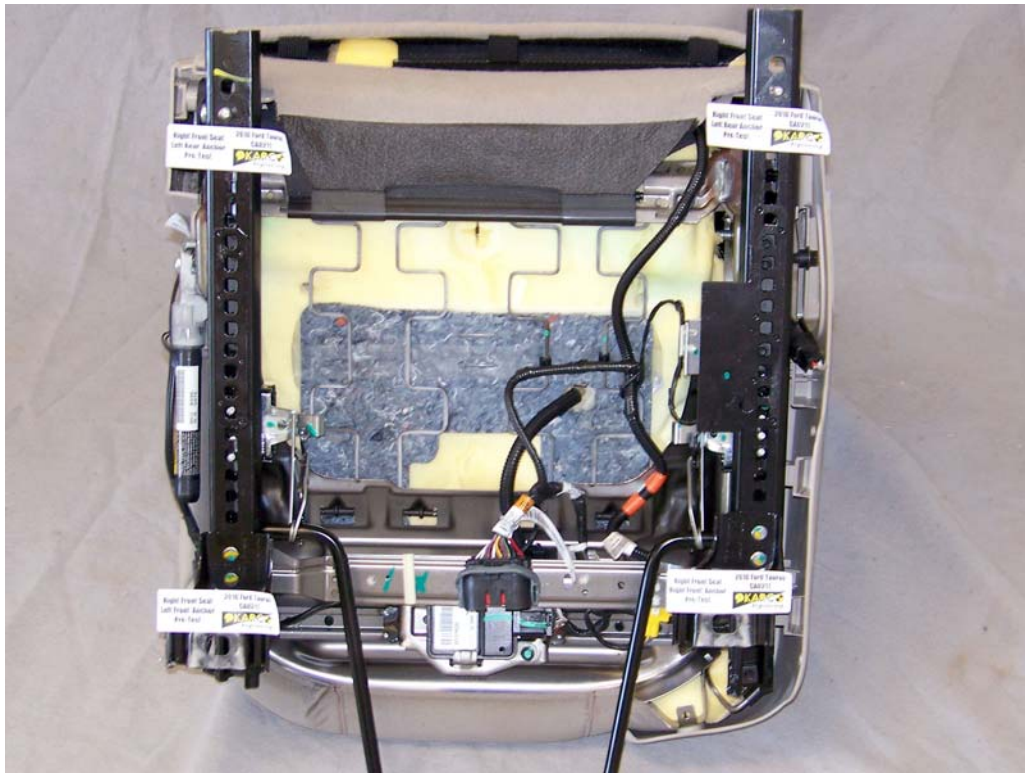


FIGURE 69. Seat Anchors, P2 Overall, Pre-Test

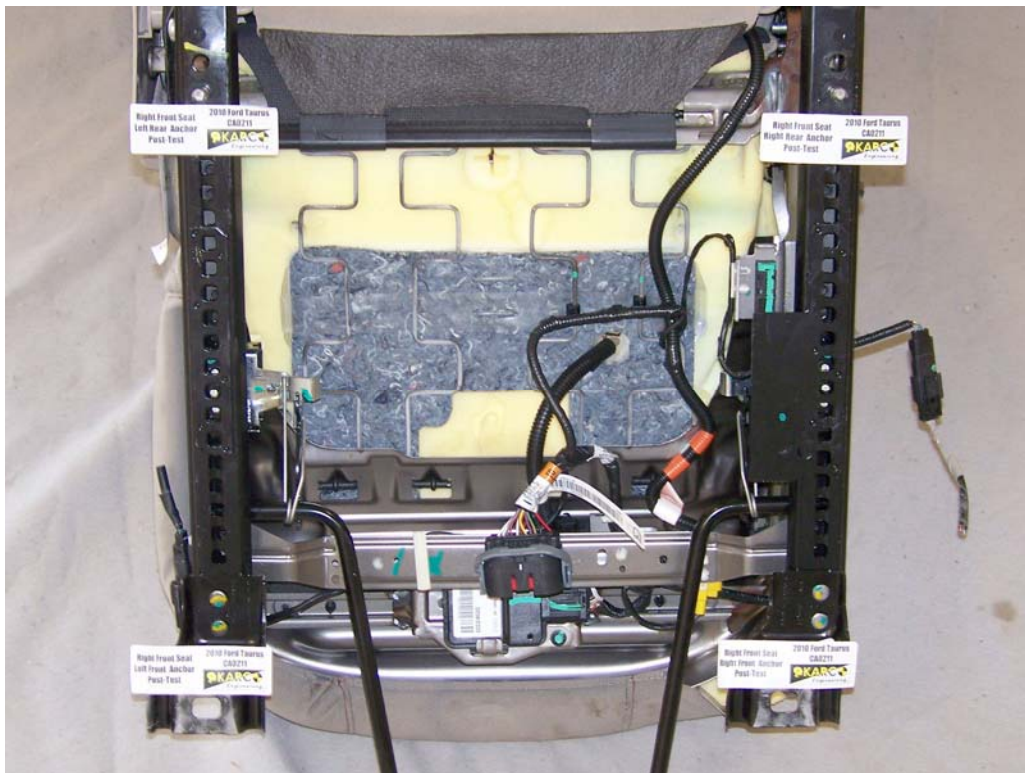


FIGURE 70. Seat Anchors, P2 Overall, Post-Test



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. Floor Pan Anchor, P2, Pre-Test



FIGURE 84. Floor Pan Anchor, P2, Post-Test



FIGURE 85. Seat Anchor, P2, Pre-Test



FIGURE 86. Seat Anchor, P2, Post-Test



FIGURE 87. Shoulder Belt Anchor, P2, Pre-Test



FIGURE 88. Shoulder Belt Anchor, P2, Post-Test



FIGURE 89. Shoulder Belt Anchor, P2, Pre-Test



FIGURE 90. Shoulder Belt Anchor, P2, Post-Test



FIGURE 91. Belt Anchor, P2, Pre-Test



FIGURE 92. Belt Anchor, P2, Post-Test



FIGURE 93. Belt Anchor, P2, Pre-Test



FIGURE 94. Belt Anchor, P2, Post-Test



FIGURE 95. Floor Pan Anchors, P3-P4 Overall, Pre-Test



FIGURE 96. Floor Pan Anchors, P3-P4 Overall, Post-Test



FIGURE 97. Seat Back Anchors, P3-P4 Overall, Pre-Test



FIGURE 98. Seat Back Anchors, P3-P4 Overall, 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. Floor Pan Anchor, P3, Pre-Test



FIGURE 108. Floor Pan Anchor, P3, Post-Test



FIGURE 109. Seat Back Anchor, P3, Pre-Test



FIGURE 110. Seat Back Anchor, P3, Post-Test



FIGURE 111. Floor Pan Anchor, P3, Pre-Test



FIGURE 112. Floor Pan Anchor, P3, Post-Test



FIGURE 113. Seat Back Anchor, P3, Pre-Test



FIGURE 114. Seat Back Anchor, P3, Post-Test



FIGURE 115. Floor Pan Anchor, P3, Pre-Test



FIGURE 116. Floor Pan Anchor, P3, Post-Test



FIGURE 117. Seat Back Anchor, P3, Pre-Test



FIGURE 118. Seat Back Anchor, P3, Post-Test



FIGURE 119. Seat Cushion Anchors, P3-P4 Overall, Pre-Test



FIGURE 120. Seat Cushion Anchors, P3-P4 Overall, Post-Test



FIGURE 121. Floor Pan Anchor, P4, Pre-Test



FIGURE 122. Floor Pan Anchor, P4, Post-Test



FIGURE 123. Seat Cushion Anchor, P4, Pre-Test



FIGURE 124. Seat Cushion Anchor, P4, Post-Test



FIGURE 125. Floor Pan Anchor, P3, Pre-Test



FIGURE 126. Floor Pan Anchor, P3, Post-Test

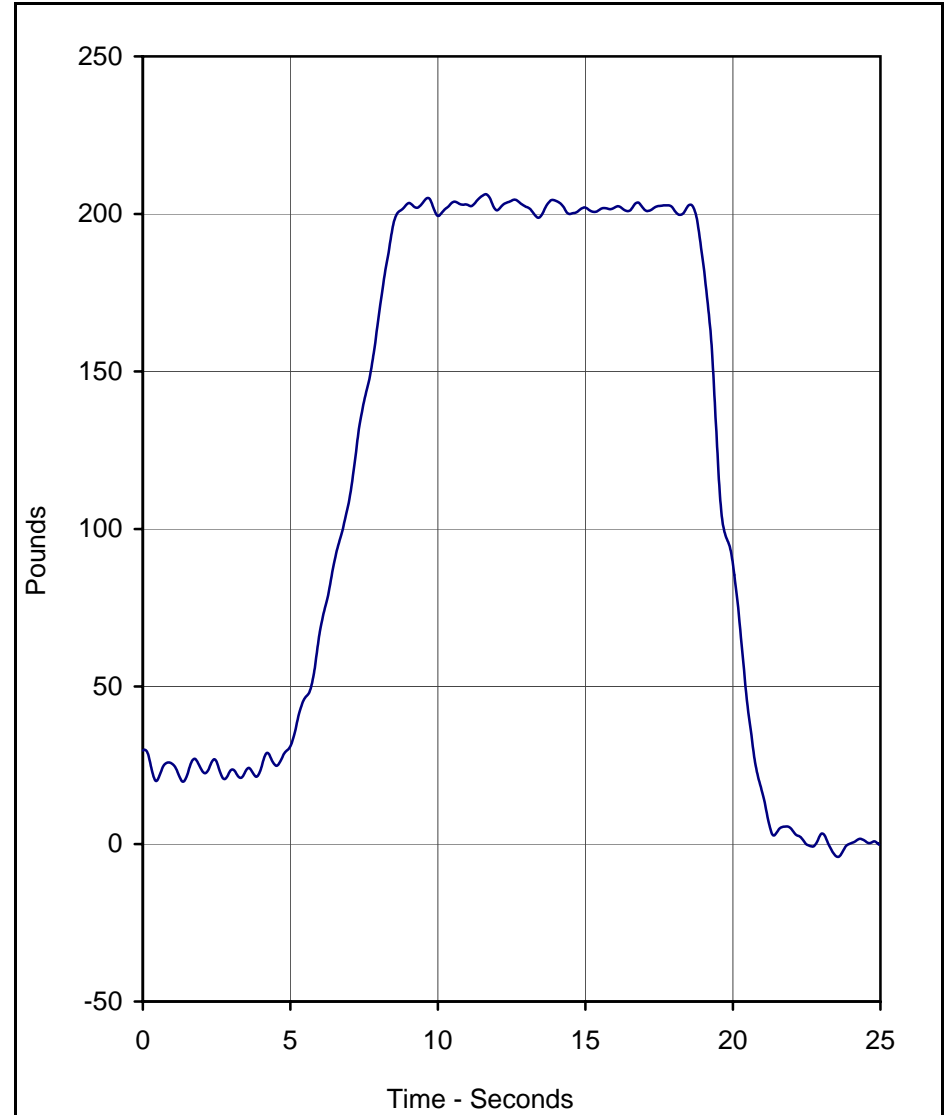
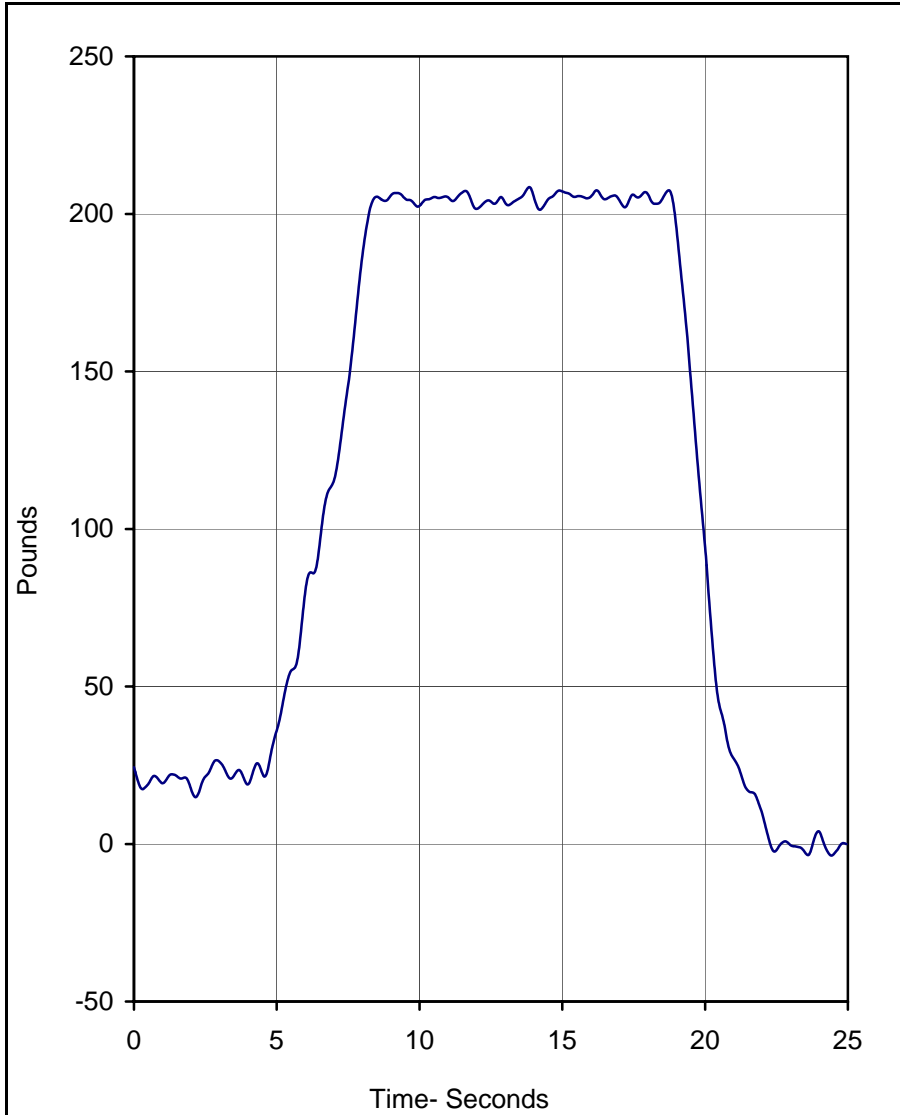


FIGURE 127. Seat Cushion Anchor, P3, Pre-Test



FIGURE 128. 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

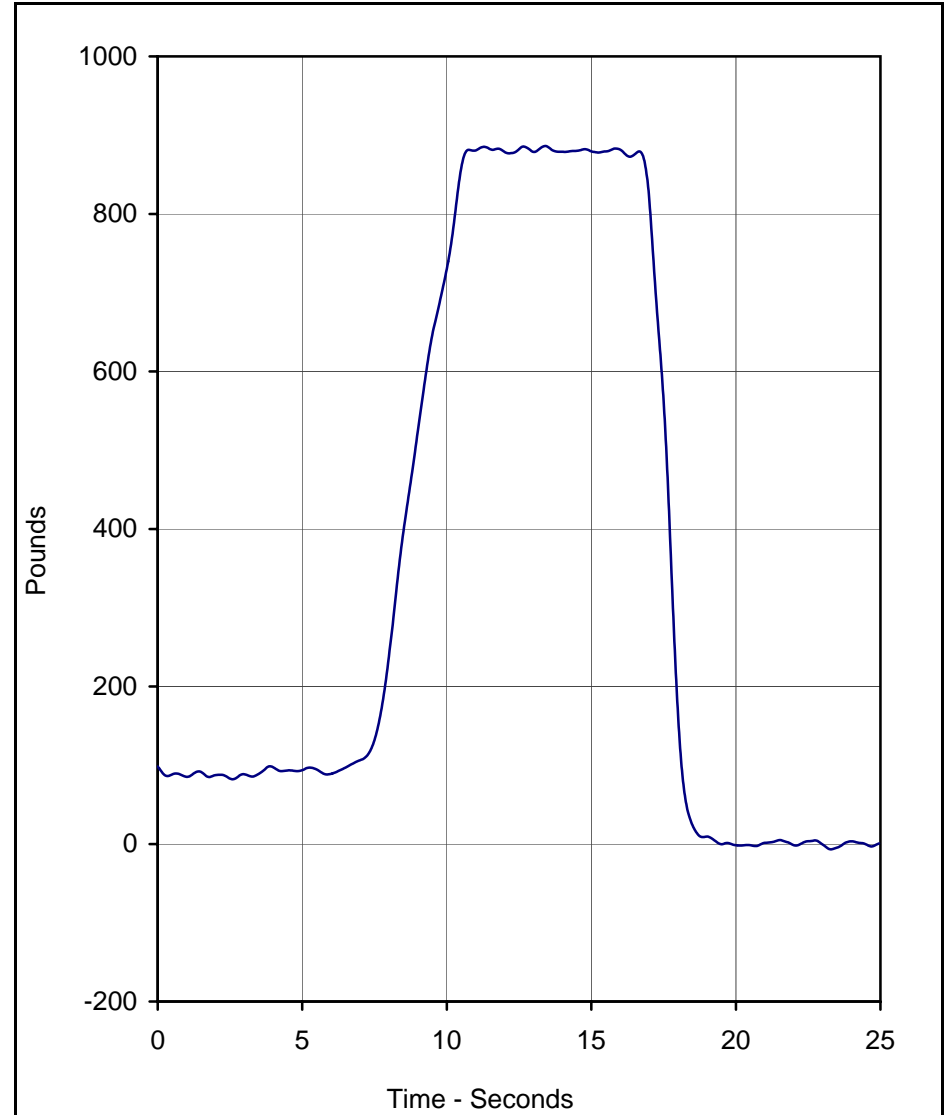
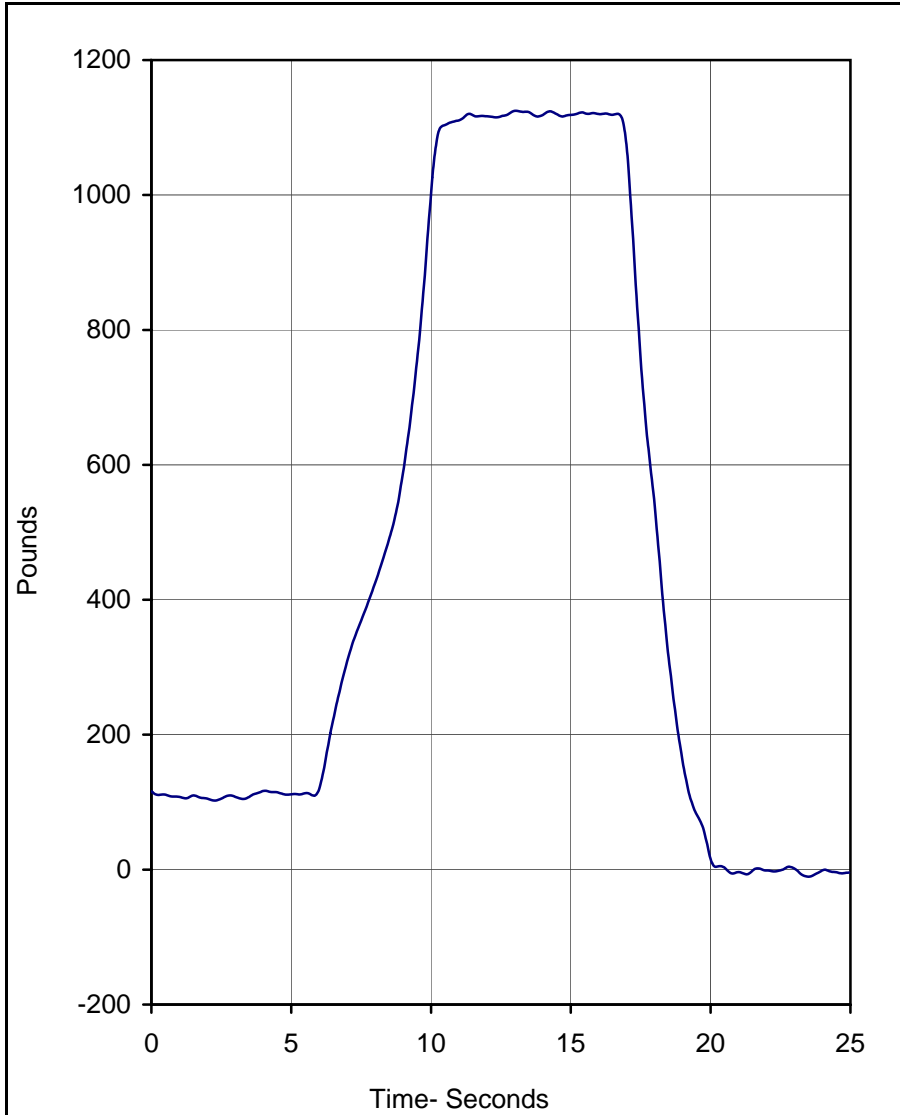
Units	Max	Time	Min	Time	Filter (Hz)
Pounds	208.5	13.9	-3.6	24.5	1

Units	Max	Time	Min	Time	Filter (Hz)
Pounds	206.2	11.6	-4.1	23.6	1

Test Program: FMVSS 207 Aft Moment (Front)
 Test Vehicle: 2010 Ford Taurus 4-Door Sedan

Test Date: 7/1/10
 Project No.: CA0211





Curve Description	CURNO	Type
Driver Seat	001	FIL

Curve Description	CURNO	Type
Passenger Seat	002	FIL

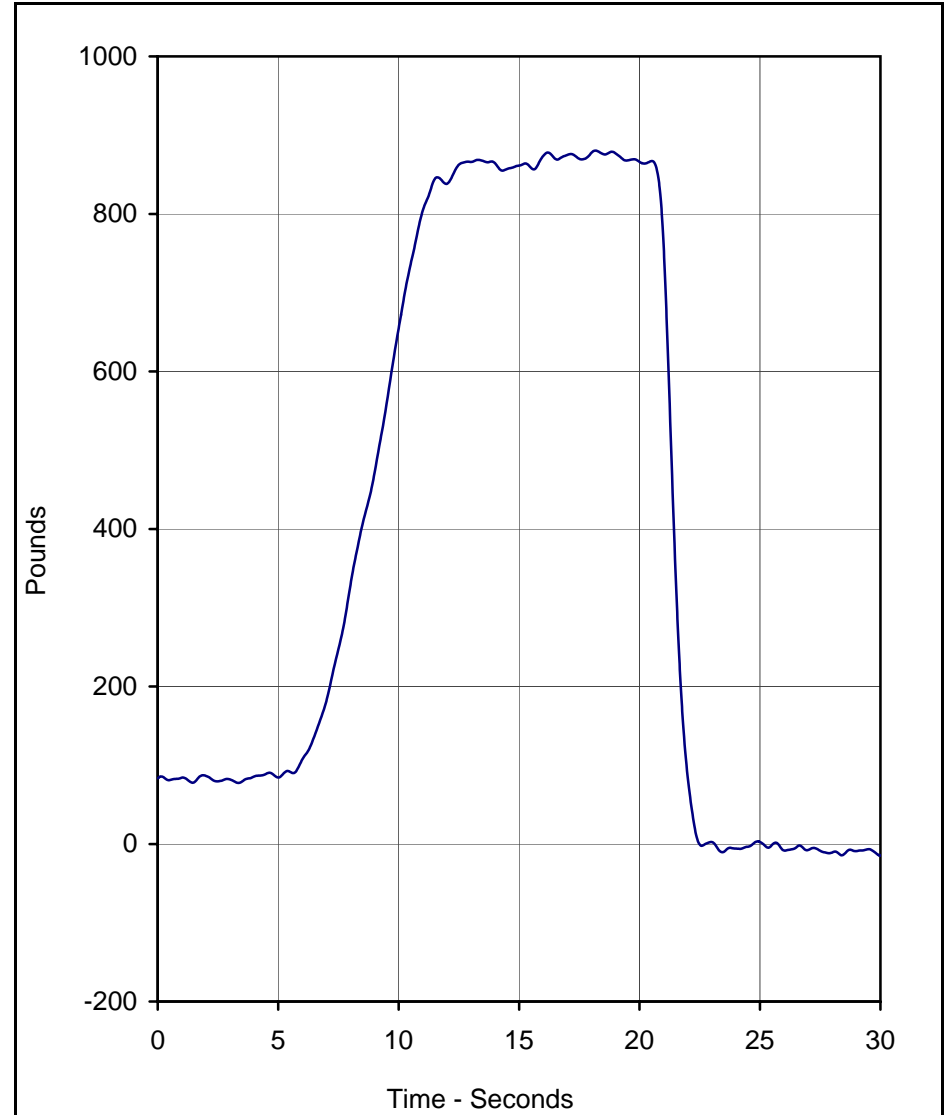
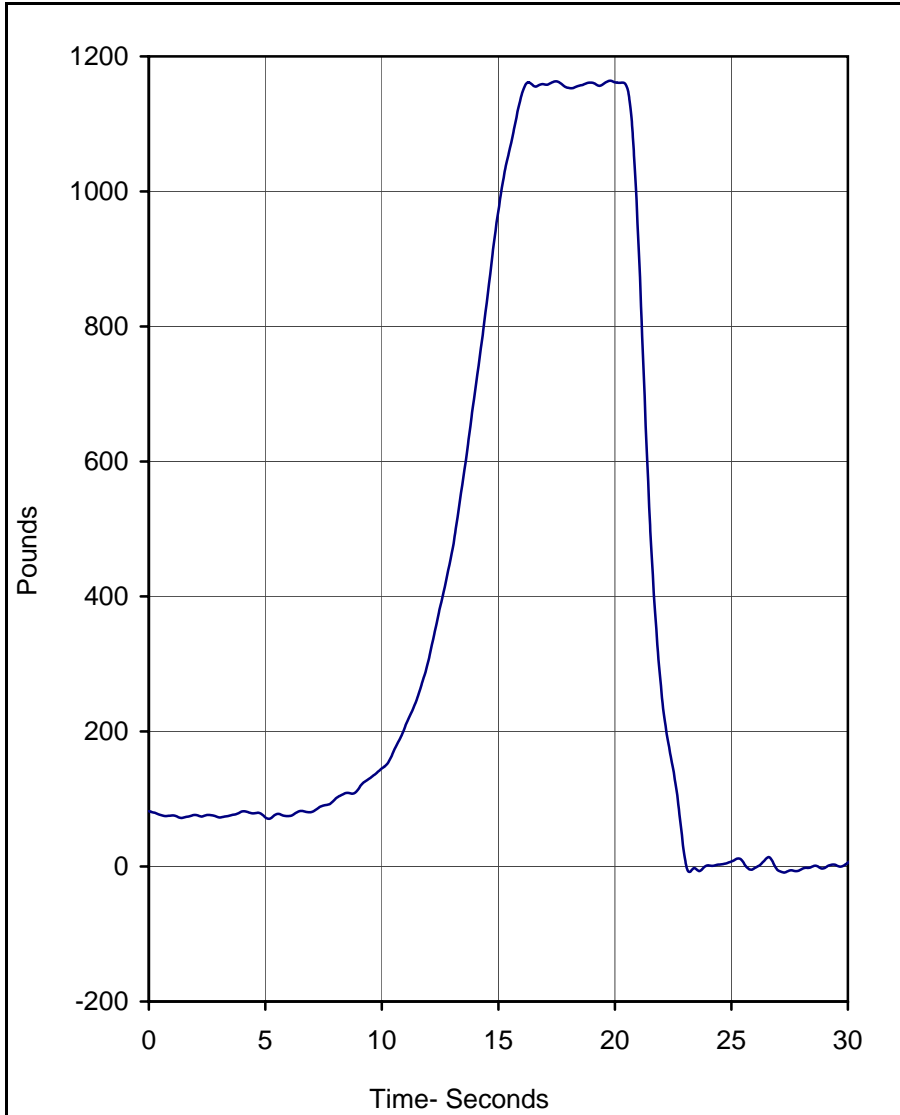
Units	Max	Time	Min	Time	Filter (Hz)
Pounds	1124.8	13.1	-10.4	23.5	1

Units	Max	Time	Min	Time	Filter (Hz)
Pounds	886.2	13.4	-6.8	23.3	1

Test Program: FMVSS Aft Seat Frame and Adj. (Front)
 Test Vehicle: 2010 Ford Taurus 4-Door Sedan

Test Date: 7/2/10
 Project No.: CA0211





Curve Description	CURNO	Type
Driver Seat	001	FIL

Curve Description	CURNO	Type
Passenger Seat	002	FIL

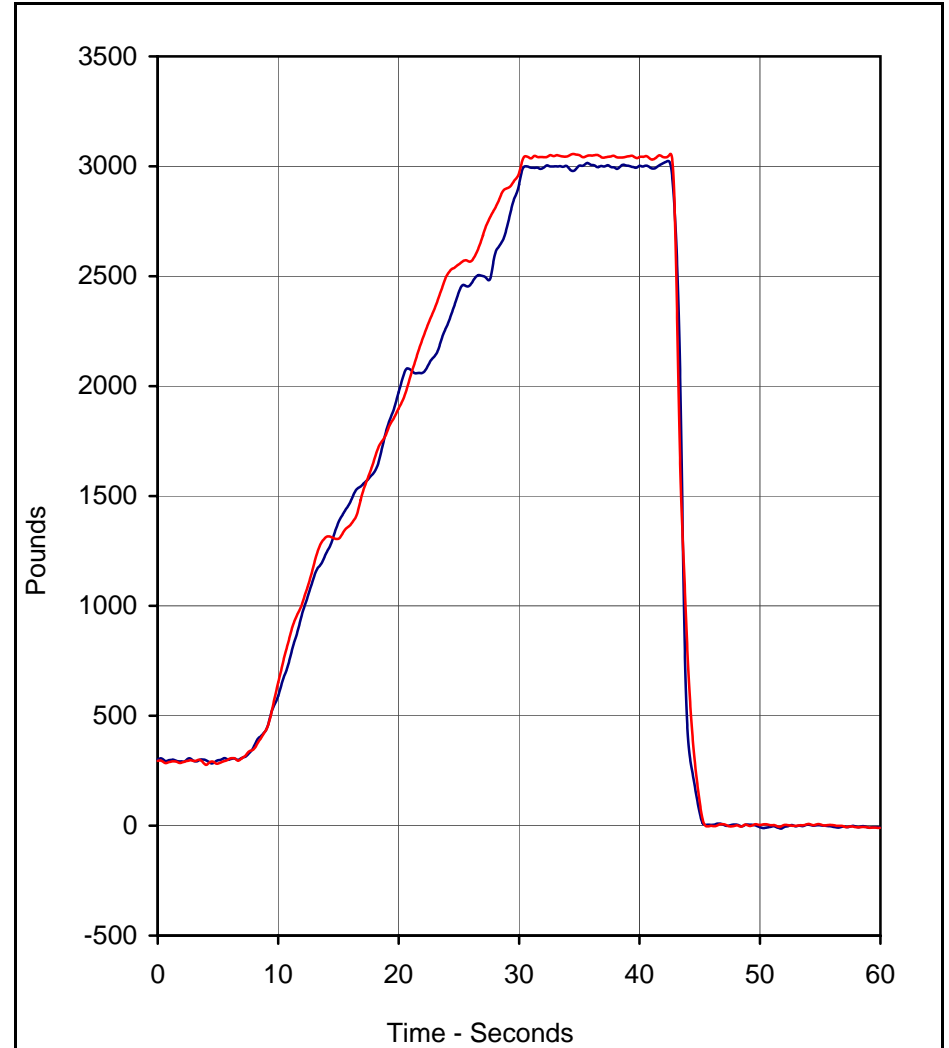
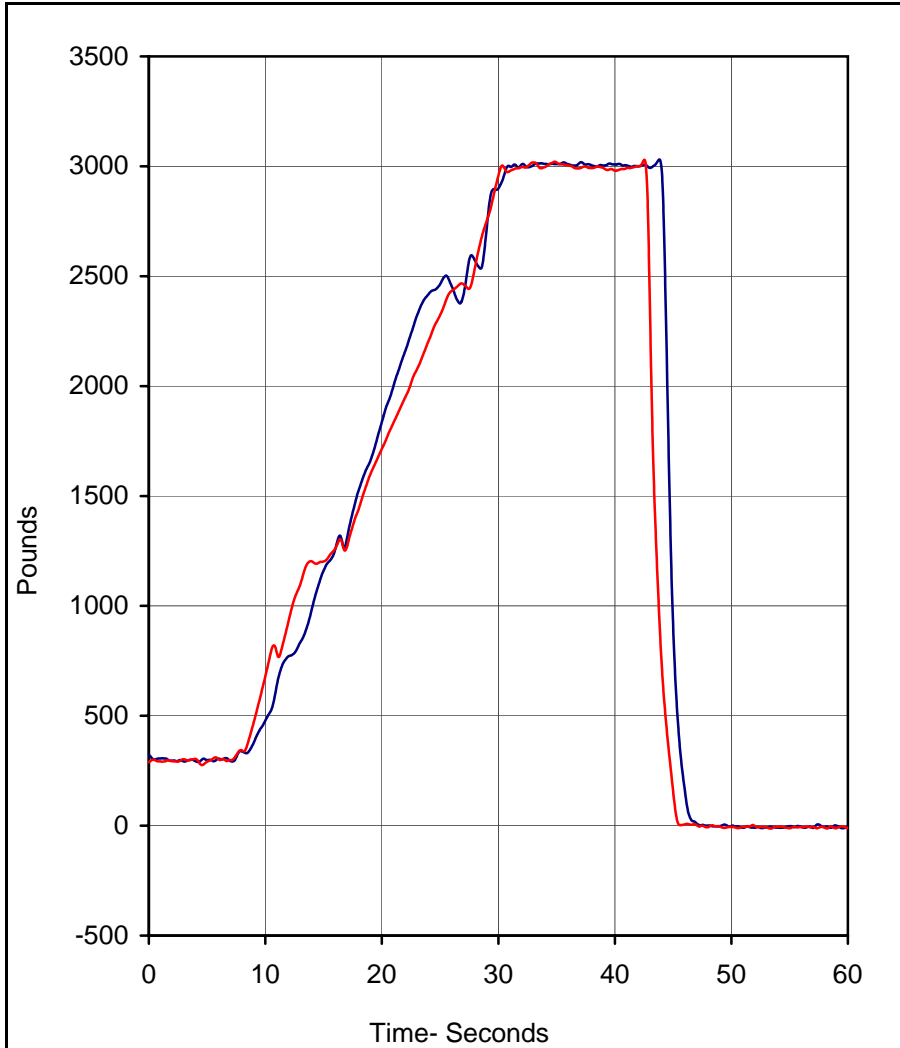
Units	Max	Time	Min	Time	Filter (Hz)
Pounds	1163.9	19.8	-8.1	23.2	1

Units	Max	Time	Min	Time	Filter (Hz)
Pounds	880.3	18.2	-10.5	23.5	1

Test Program: FMVSS 207 Fwd Seat Frame and Adj. (Front)
 Test Vehicle: 2010 Ford Taurus 4-Door Sedan

Test Date: 7/2/10
 Project No.: CA0211





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

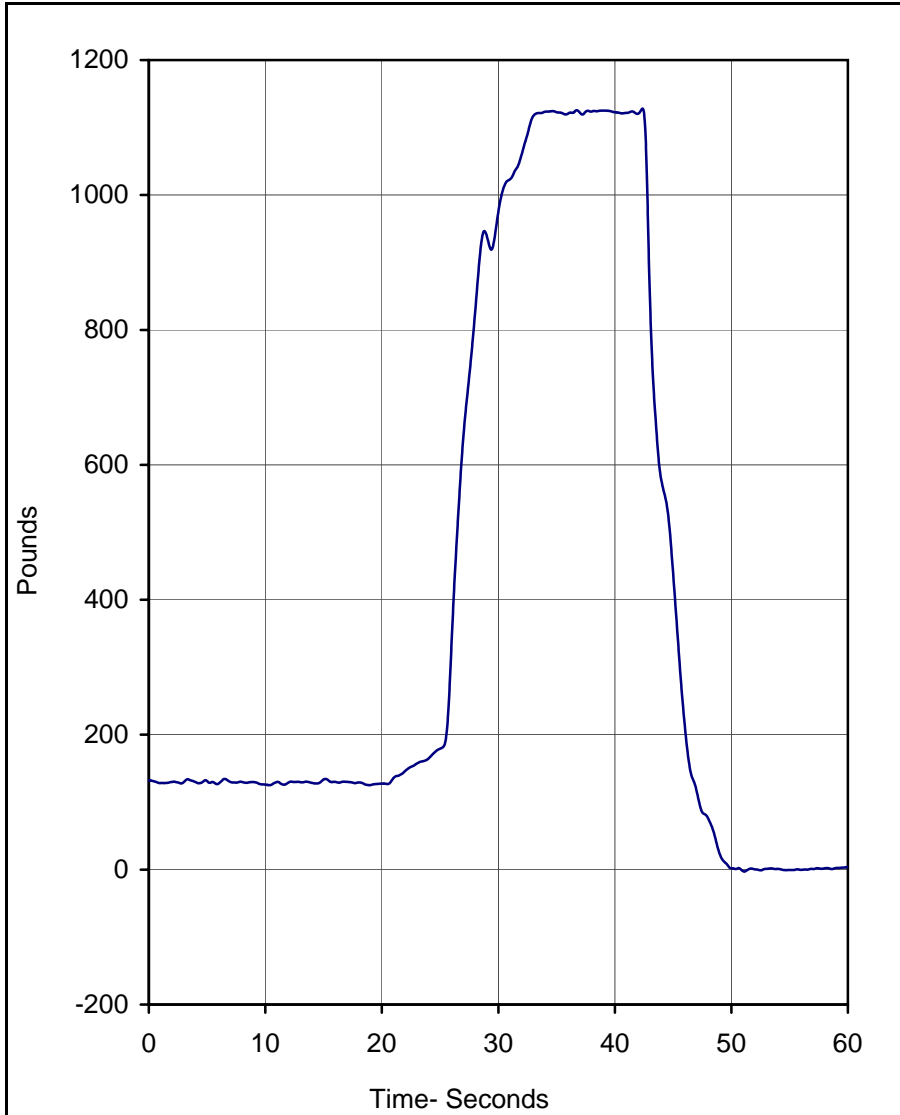
Units	Max	Time	Min	Time	Filter (Hz)
Pounds	3030.3	43.9	-11.2	52.6	1
Pounds	3029.6	42.6	-13.3	53.4	1

Units	Max	Time	Min	Time	Filter (Hz)
Pounds	3023.7	42.4	-13.3	51.8	1
Pounds	3056.1	34.5	-5.6	51.6	1

Test Program: FMVSS 207/210 Front Seats
 Test Vehicle: 2010 Ford Taurus 4-Door Sedan

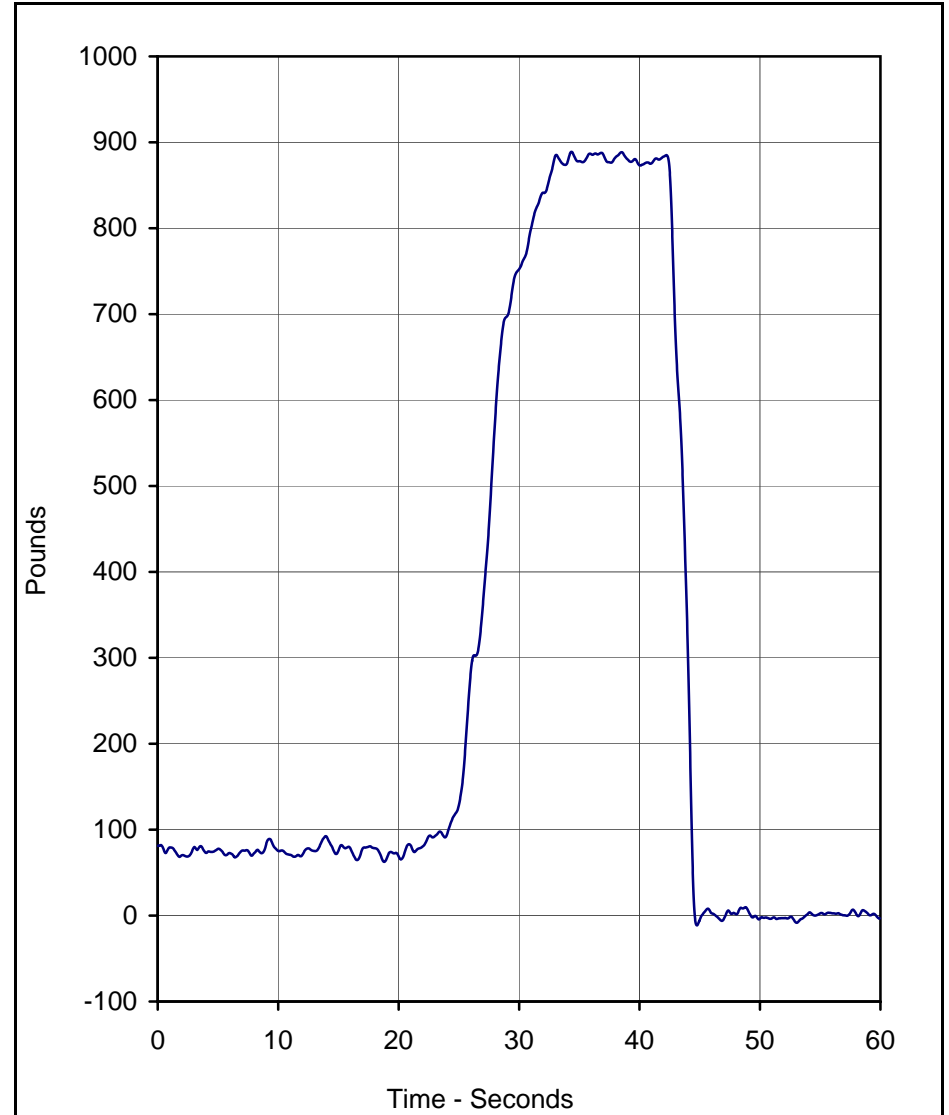
Test Date: 7/2/10
 Project No.: CA0211





Curve Description	CURNO	Type
Driver Seat Force	003	FIL

Units	Max	Time	Min	Time	Filter (Hz)
Pounds	1128.0	42.4	-2.9	51.1	1



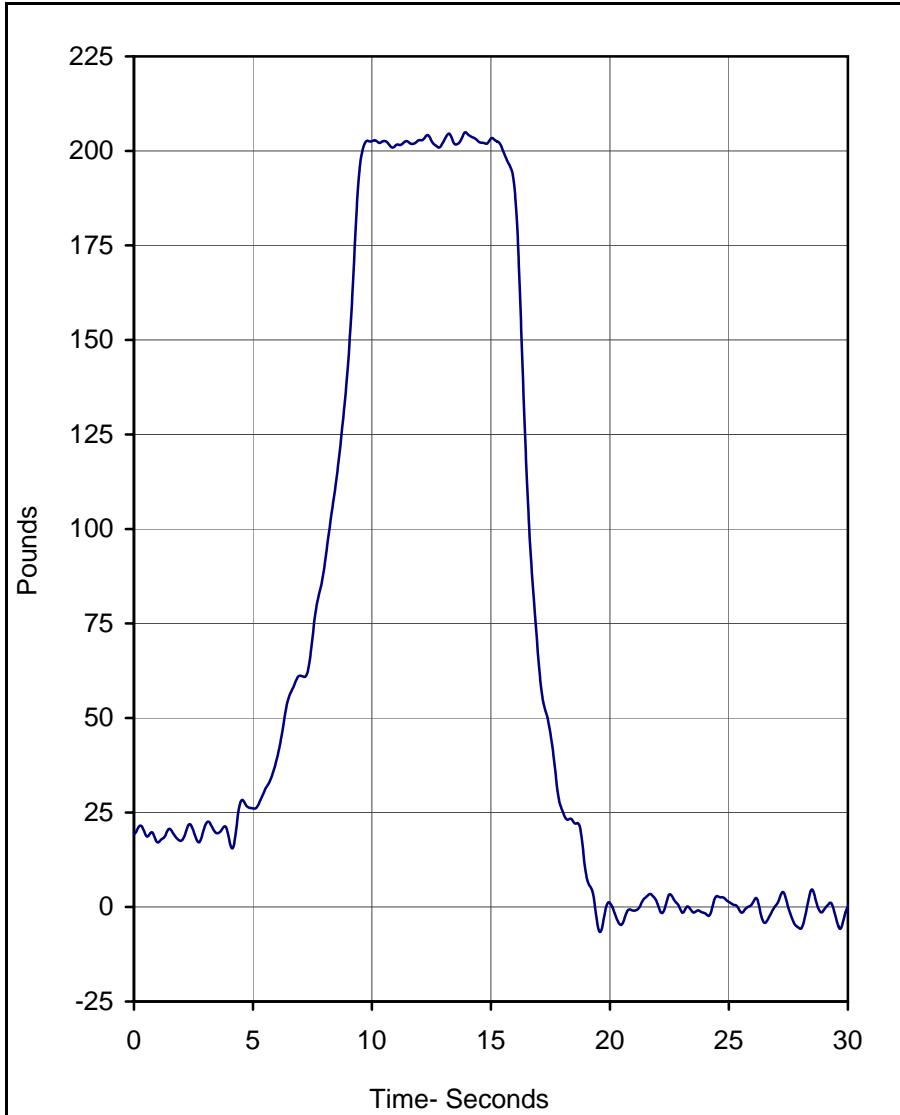
Curve Description	CURNO	Type
Passenger Seat Force	006	FIL

Units	Max	Time	Min	Time	Filter (Hz)
Pounds	889.1	34.4	-11.4	44.8	1

Test Program: FMVSS 207/210 Front Seats
 Test Vehicle: 2010 Ford Taurus 4-Door Sedan

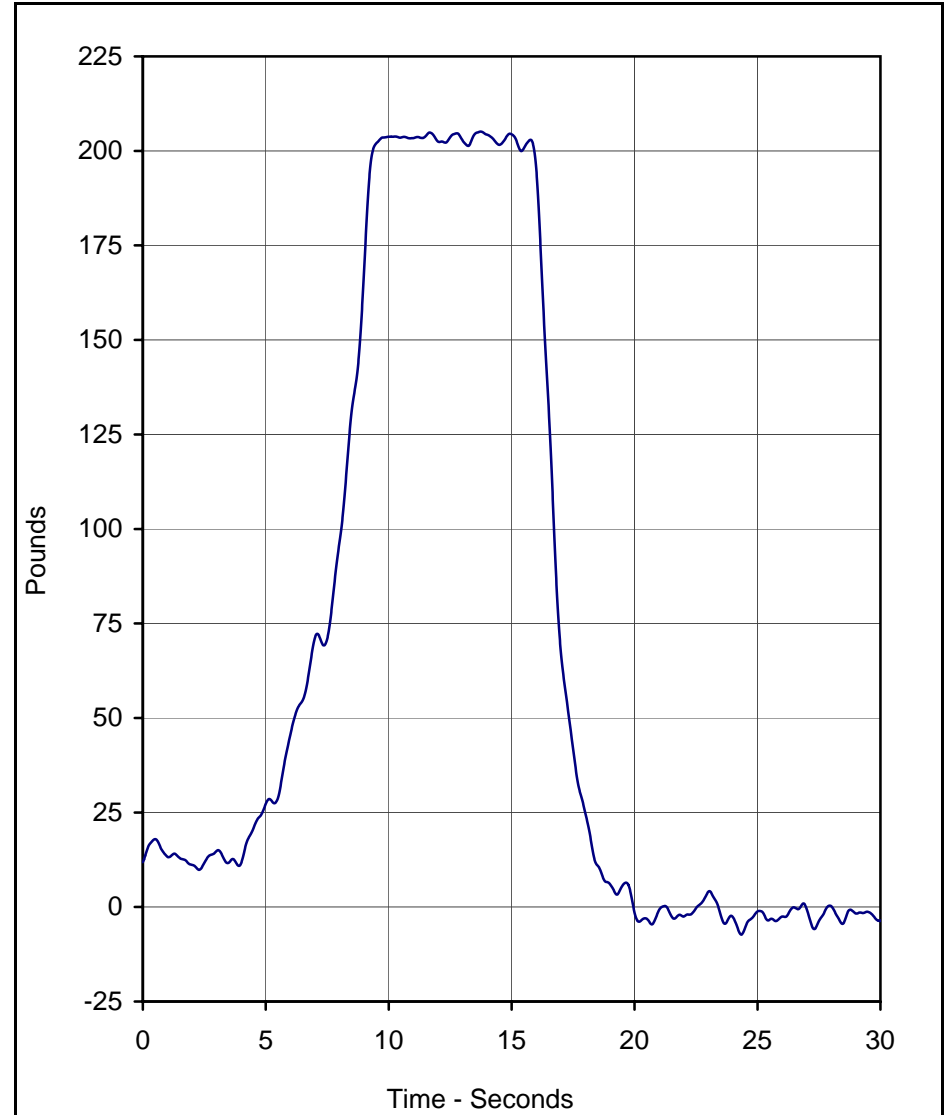
Test Date: 7/2/10
 Project No.: CA0211





Curve Description	CURNO	Type
Left Rear Seat	001	FIL

Units	Max	Time	Min	Time	Filter (Hz)
Pounds	204.9	14.0	-6.6	19.6	1



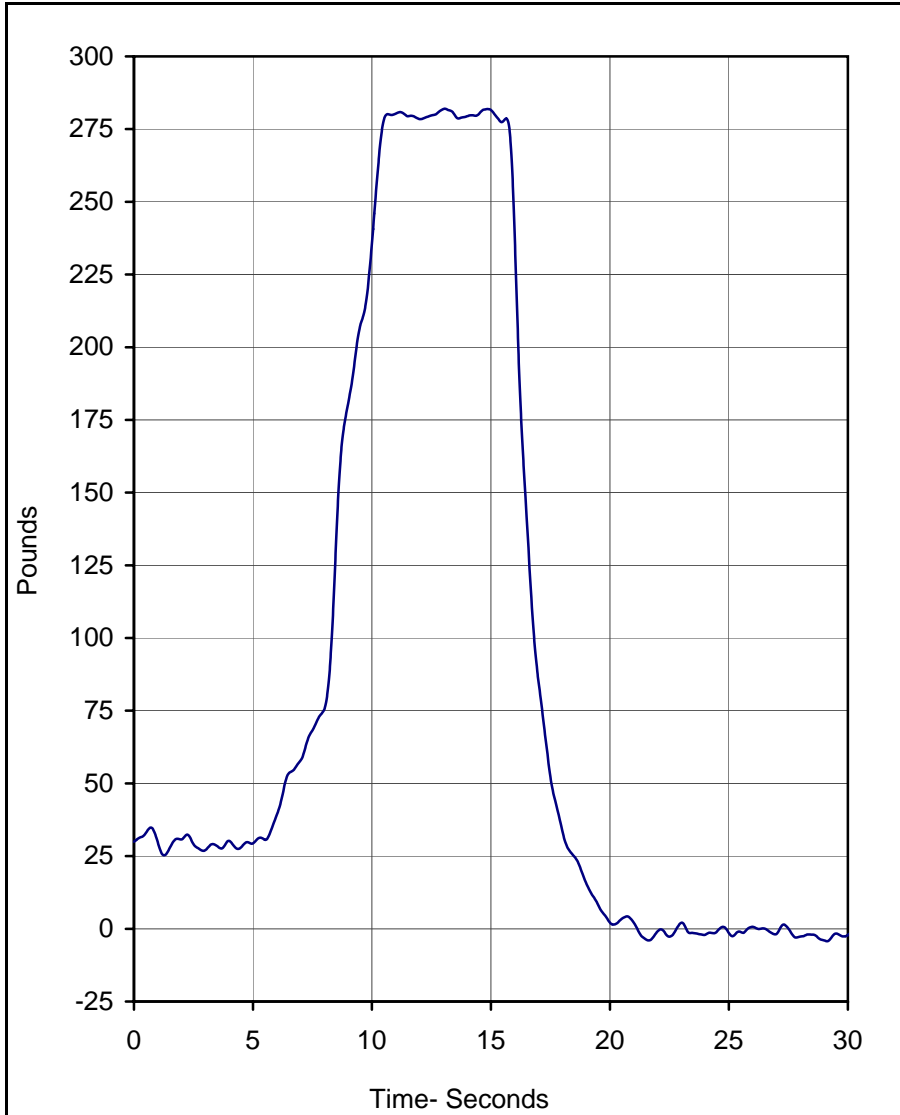
Curve Description	CURNO	Type
Right Rear Seat	002	FIL

Units	Max	Time	Min	Time	Filter (Hz)
Pounds	205.1	13.8	-7.3	24.4	1

Test Program: FMVSS 207 Aft Moment (Rear Seats)
 Test Vehicle: 2010 Ford Taurus 4-Door Sedan

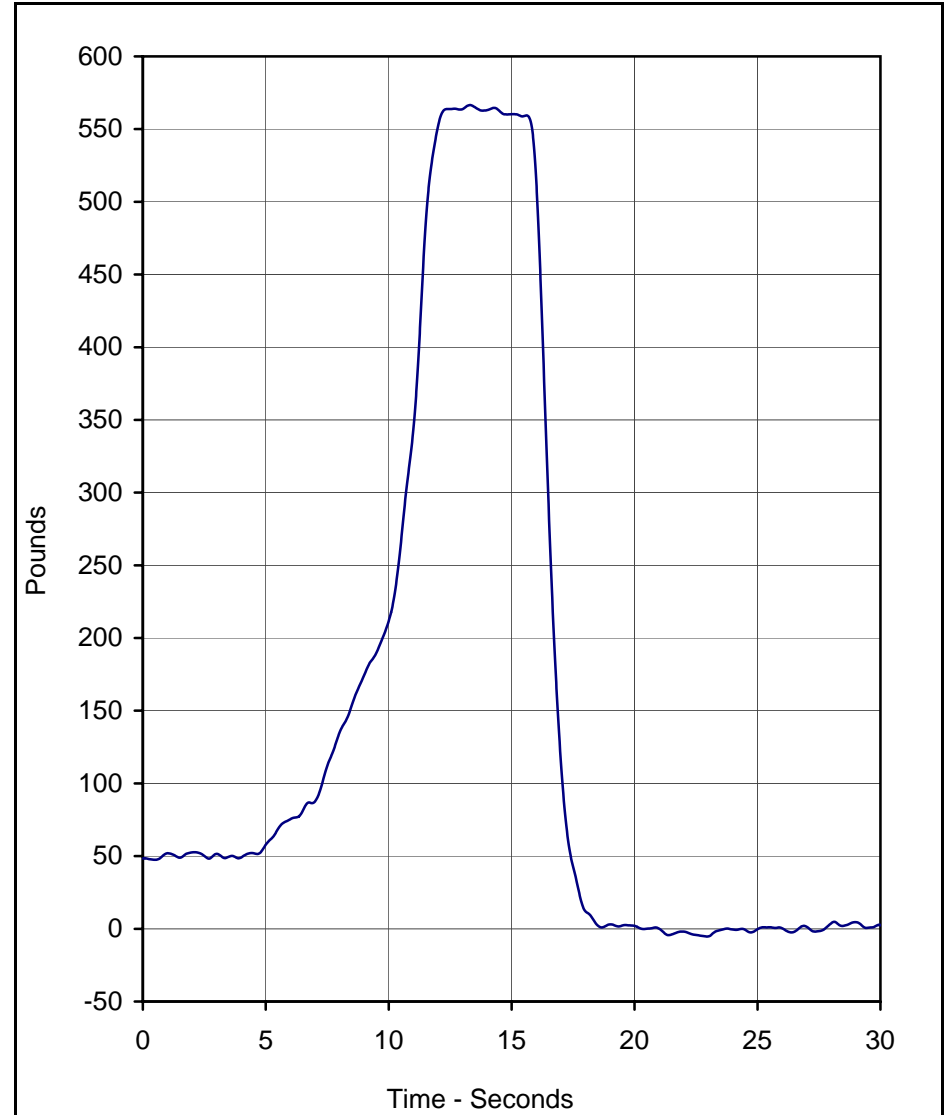
Test Date: 7/6/10
 Project No.: CA0211





Curve Description	CURNO	Type
Left Rear Aft Load Seat Back	001	FIL

Units	Max	Time	Min	Time	Filter (Hz)
Pounds	282.0	13.1	-4.0	21.7	1



Curve Description	CURNO	Type
Right Rear Seat	002	FIL

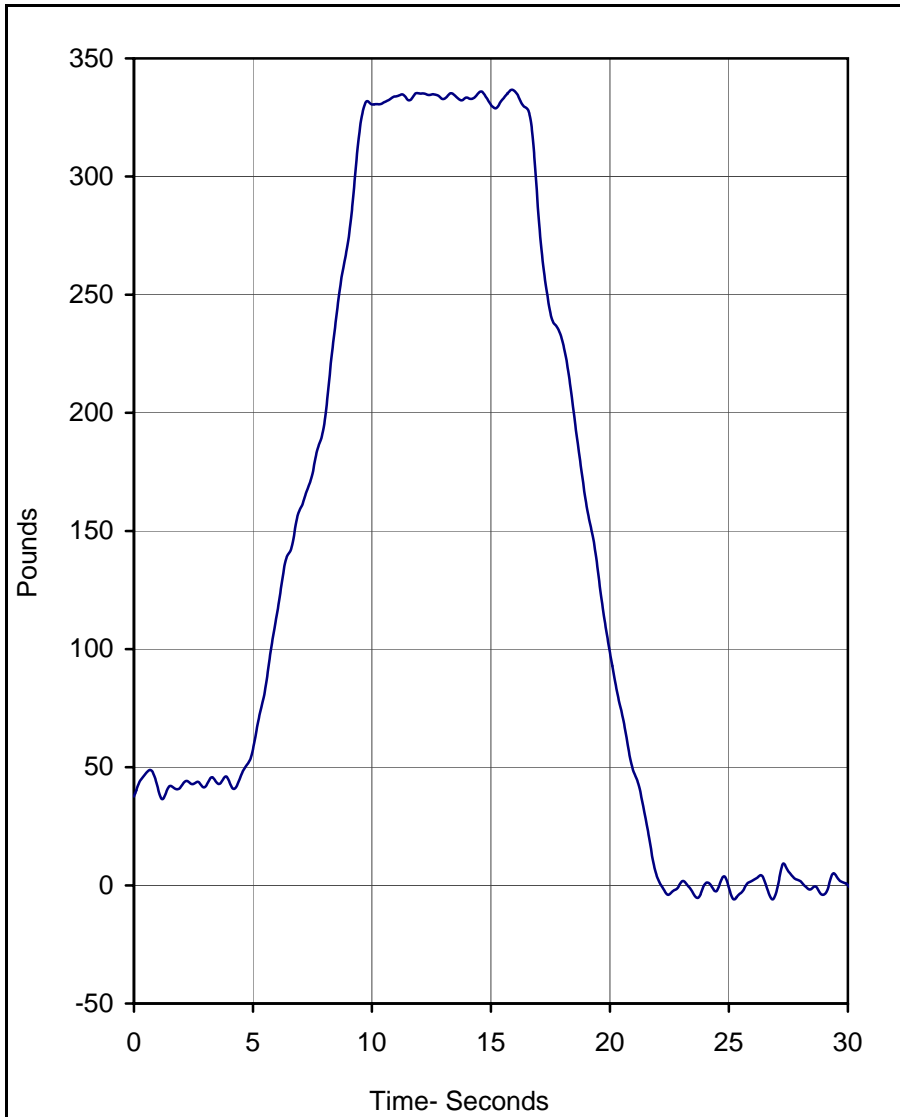
Units	Max	Time	Min	Time	Filter (Hz)
Pounds	566.5	13.3	-5.3	23.0	1

Test Program: FMVSS 207 Aft Load Seat Back (Rear)
 Test Vehicle: 2010 Ford Taurus 4-Door Sedan

Test Date: 7/6/10
 Project No.: CA0211



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Curve Description	CURNO	Type
Rear Seat Cushion	003	FIL

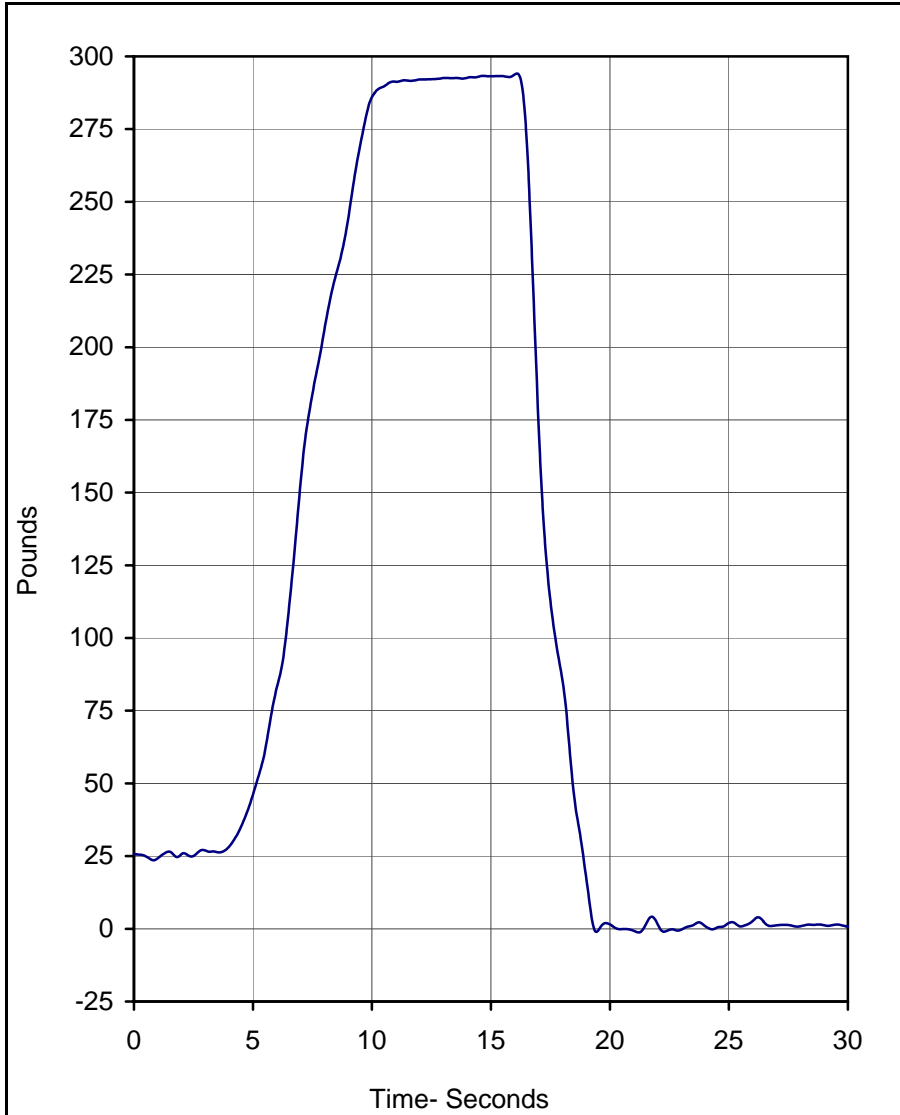
Units	Max	Time	Min	Time	Filter (Hz)
Pounds	336.7	15.9	-5.3	23.7	1

Test Program: FMVSS 207 Aft Load Seat Cushion (Rear)
 Test Vehicle: 2010 Ford Taurus 4-Door Sedan

Test Date: 7/6/10
 Project No.: CA0211

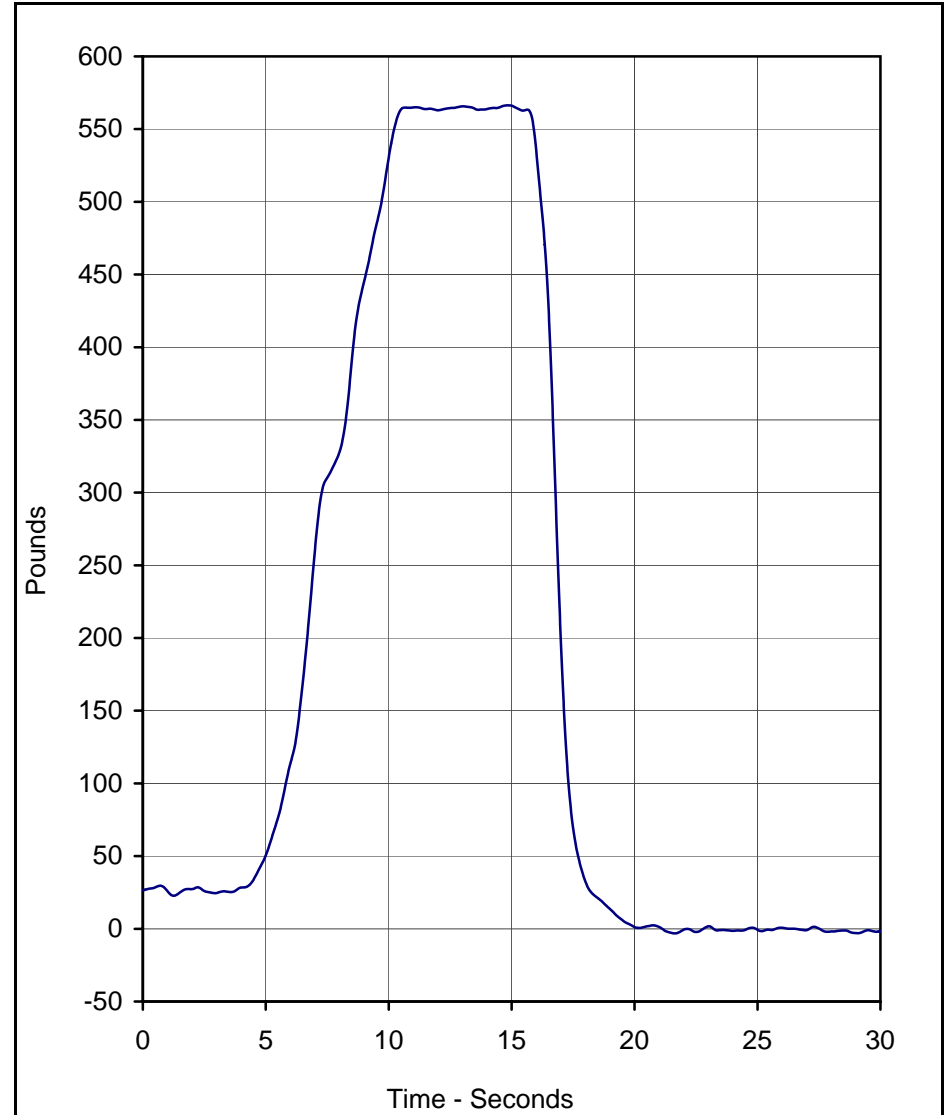


207-KAR-10-001-NC



Curve Description	CURNO	Type
Left Rear Seat	001	FIL

Units	Max	Time	Min	Time	Filter (Hz)
Pounds	294.1	16.1	-1.2	21.2	1



Curve Description	CURNO	Type
Right Rear Seat	002	FIL

Units	Max	Time	Min	Time	Filter (Hz)
Pounds	566.4	14.9	-3.2	21.7	1

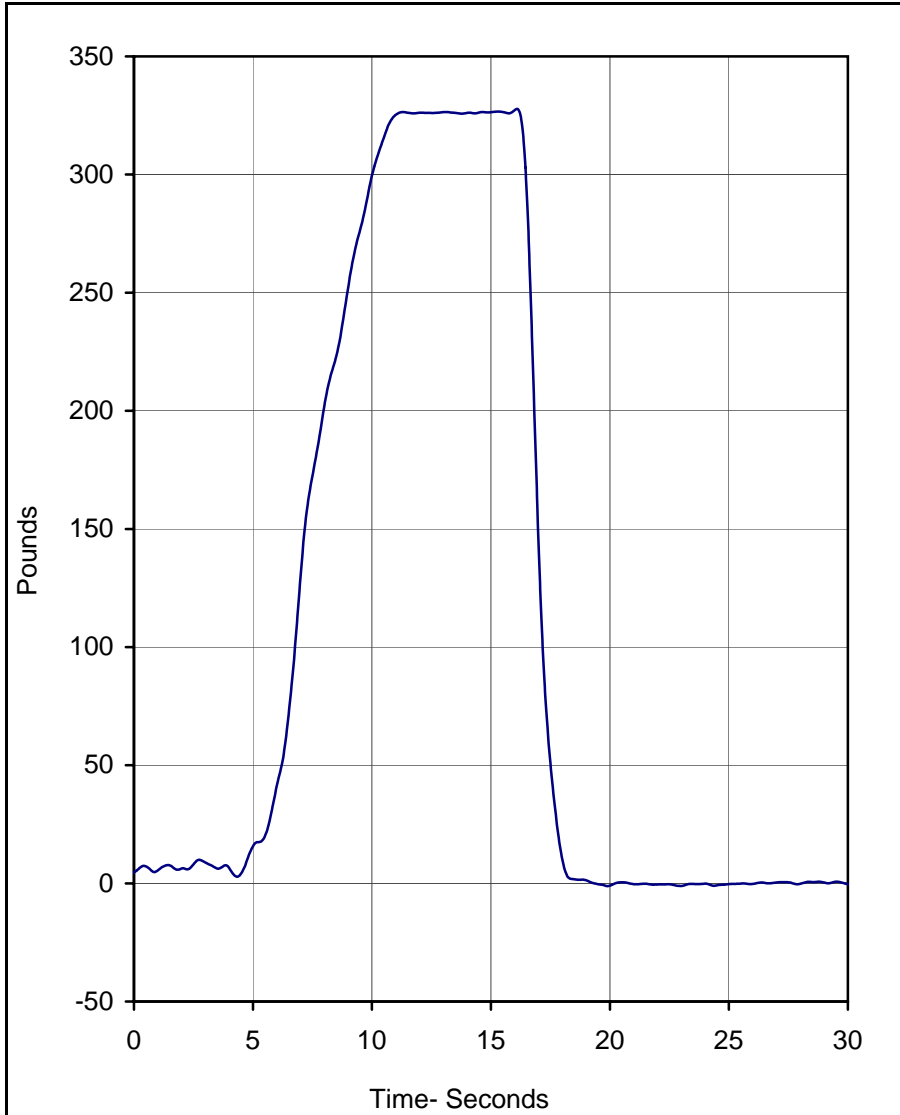
Test Program: FMVSS 207 Fwd Load Seat Back (Rear)
 Test Vehicle: 2010 Ford Taurus 4-Door Sedan

Test Date: 7/6/10
 Project No.: CA0211



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207-KAR-10-001-NC



Curve Description	CURNO	Type
Rear Seat Cushion	003	FIL

Units	Max	Time	Min	Time	Filter (Hz)
Pounds	327.8	16.1	-1.2	19.9	1

Test Program: FMVSS 207 Fwd Load Seat Cushion (Rear)
Test Vehicle: 2010 Ford Taurus 4-Door Sedan

Test Date: 7/6/10
Project No.: CA0211



APPENDIX C

TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

FMVSS 207
Test Equipment List
7/1/10 - 7/6/10
2010 Ford Taurus 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	11/10/09	11/10/10
Load Cell	BLH	U3G1	49296	3K	± 1.0%	4/5/10	10/4/10
Load Cell	BLH	U-1C	N873	6K	± 1.0%	4/5/10	10/4/10
Load Cell	BLH	U-1C	11139	12K	± 1.0%	4/5/10	10/4/10
Load Cell	Alinco	342-E	22438-B	10K	± 1.0%	4/5/10	10/4/10
Load Cell	Alinco	342-E	22440-A	10K	± 1.0%	4/5/10	10/4/10
Load Cell	BLH	U3G1	81711A	10K	± 1.0%	4/5/10	10/4/10

C-1

207-KAR-10-001-NC

