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Report No.: P44238-01

FMVSS 207 & 210 S4.2 – Seat Belt Assembly Anchorages on SKU 025 & SKU 027

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07/29/2024

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12/05/2024

This report contains 17 pages.

The results refer exclusively to the sample tested.

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1 OBJECTIVE

Report of FMVSS 207 and 210 S4.2 Seat Belt Assembly Anchorages on Front and Rear Seats according to the FMVSS 207 and 210 protocol

2 CONCLUSIONS

The test was satisfactory from the testing point of view.

The samples provided by Amazing Auto were tested in accordance with the requirements of Federal Motor Vehicle Safety Standards No. 207 and No. 210, and the results of the tests performed are shown in the following pages.

3 TEST CONDITIONS

3.1 Test description

IDIADA Test No.:	P44238-01
Test type:	FMVSS 207 + 210 Seat Belt Assembly Anchorages
Test date:	07/29/2024
IDIADA KARCO Test engineer:	Daniel Ortiz
Vehicle:	

4 TEST SAMPLES

4.1 Sample features

General	
Manufacturer	Sprinter Swivel
Model	SKU 025 & SKU 027

5 SKU 025

FMVSS 207 Aft Moment Force (lbf)

Max: 3325.5 lbf at 10.2 s

Min: -71.0 lbf at 19.1 s

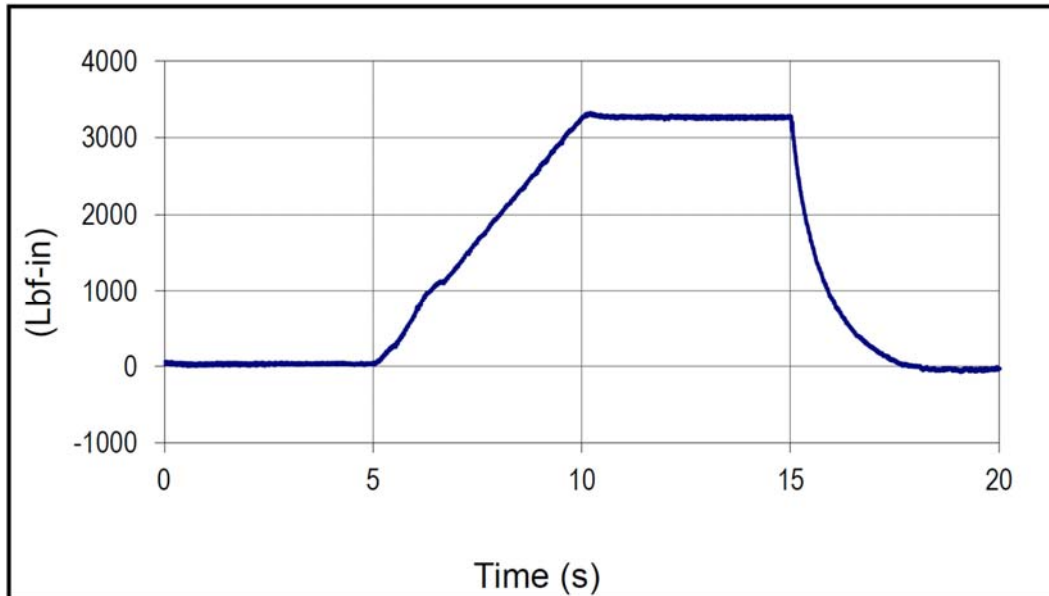


Figure 1: Data Plot of FMVSS 207 Aft Moment Force



Figure 2: Post-Test Photograph of FMVSS 207 Aft Moment Force

FMVSS 207 Aft Seat Force (lbf)

Max: 1684.4 lbf at 14.6 s

Min: -19.7 lbf at 19.7 s

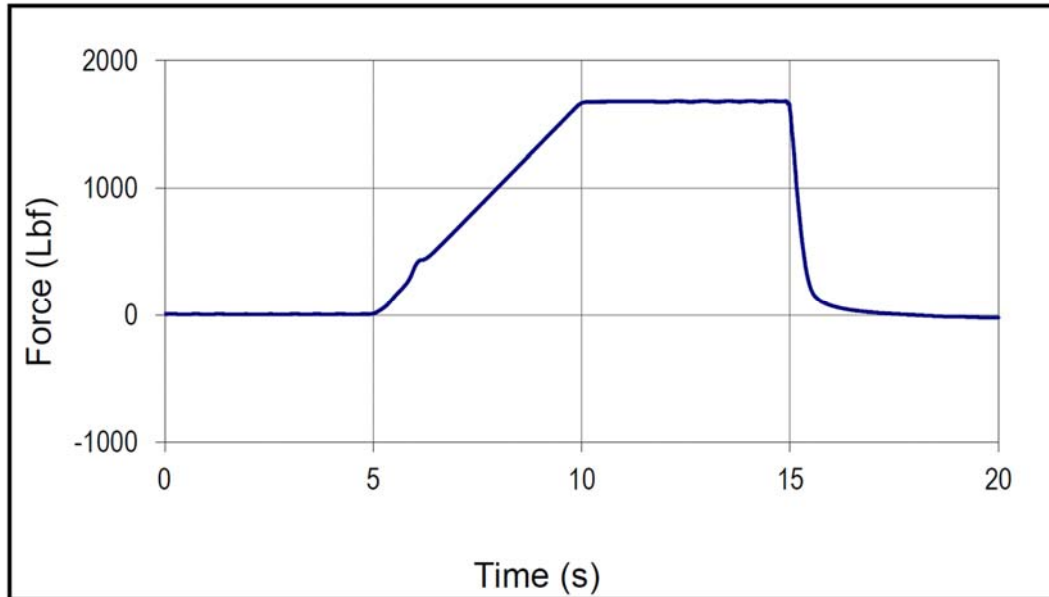


Figure 3: Data Plot of FMVSS 207 Aft Seat Force



Figure 4: Post-Test Photograph of FMVSS 207 Aft Seat Force

FMVSS 207 Forward Seat Force (lbf)

Max: 1671.9 lbf at 14.9 s

Min: 34.9 lbf at 20.0 s

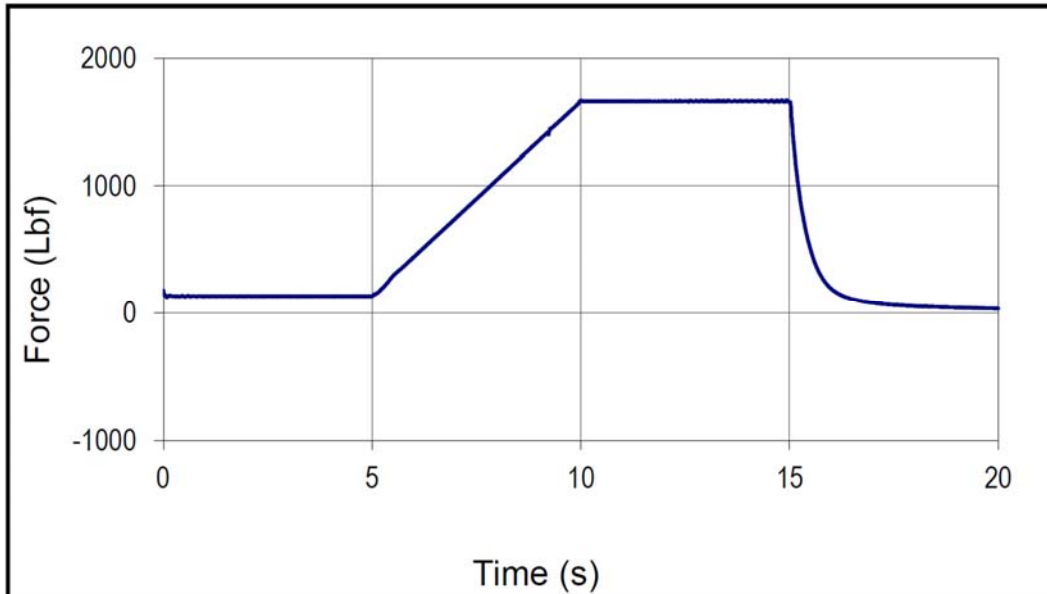


Figure 5: Data Plot of FMVSS 207 Forward Seat Force



Figure 6: Post-Test Photograph of FMVSS 207 Forward Seat Force

FMVSS 207 Seat Force (lbf)

Max: 1715.6 lbf at 39.2 s

Min: 160.0 lbf at 0.0 s

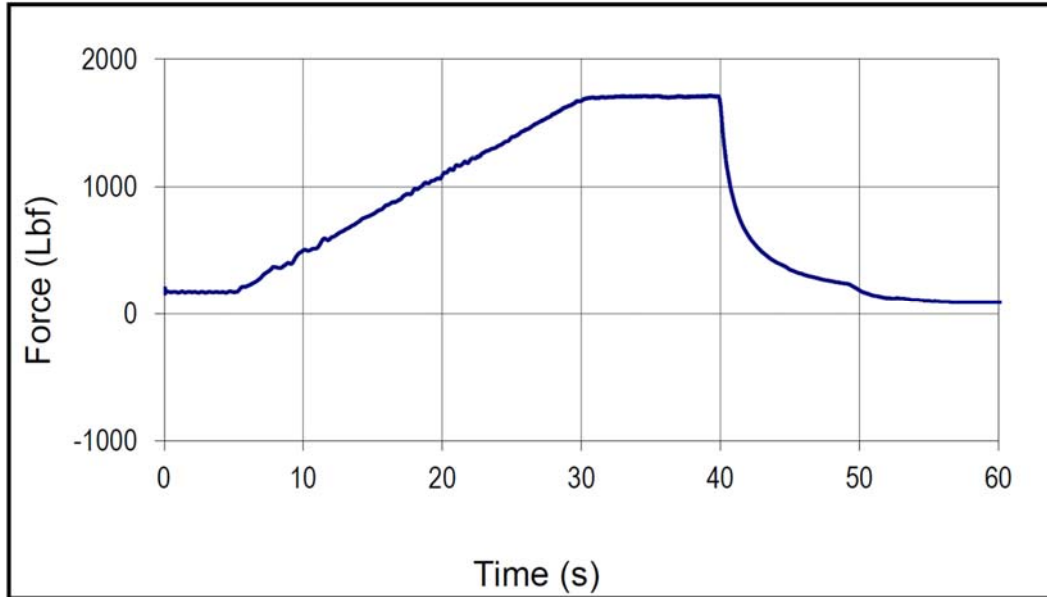


Figure 7: Data Plot of FMVSS 207 Seat Force



Figure 8: Post-Test Photograph of FMVSS 207 Seat Force

FMVSS 210 Lap Belt Force (lbf)

Max: 3053.5 lbf at 39.2 s

Min: 296.7 lbf at 0.1 s

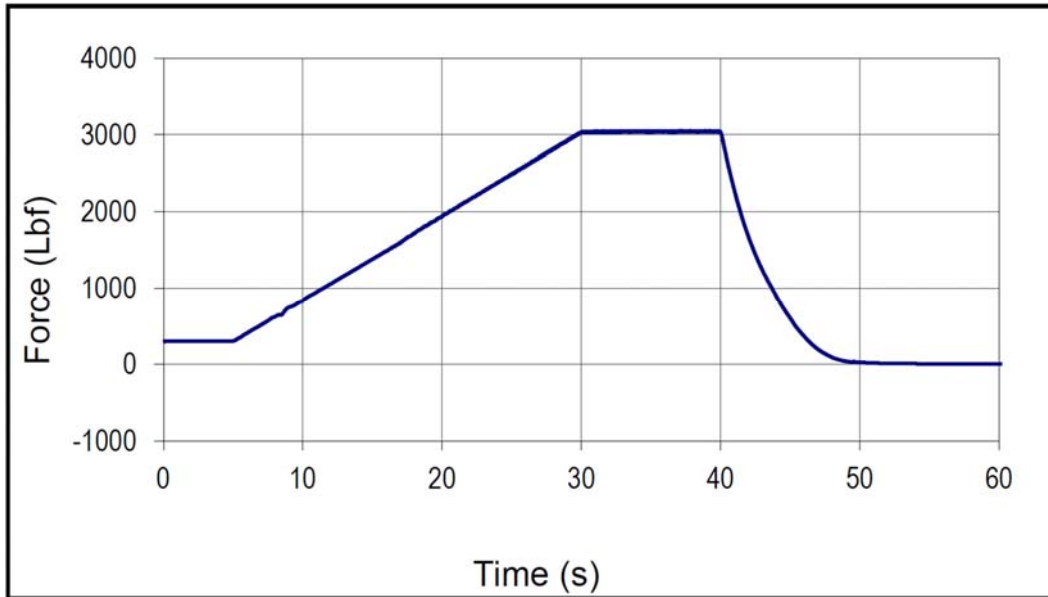


Figure 9: Data Plot of FMVSS 210 Lap Belt Force



Figure 10: Post-Test Photograph of FMVSS 210 Lap Belt Force

FMVSS 210 Shoulder Belt Force (lbf)

Max: 3038.6 lbf at 39.2 s

Min: 303.7 lbf at 0.0 s

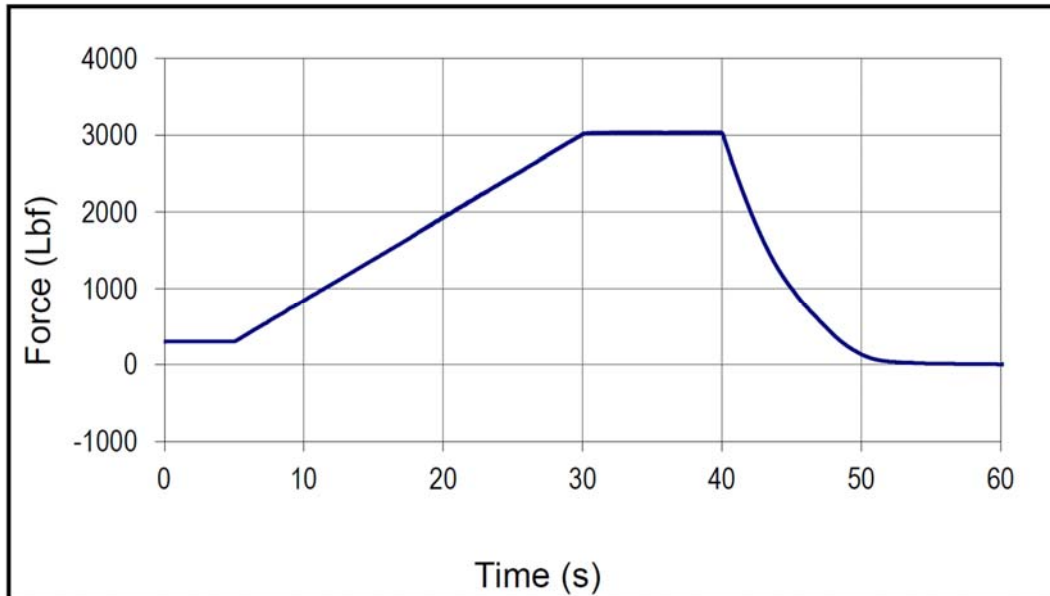


Figure 11: Data Plot of FMVSS 210 Shoulder Belt Force



Figure 12: Post-Test Photograph of FMVSS 210 Shoulder Belt Force

6 SKU 027

FMVSS 207 Aft Moment Force (lbf)

Max: 6764.9 lbf at 14.8 s

Min: 76.1 lbf at 24.7 s

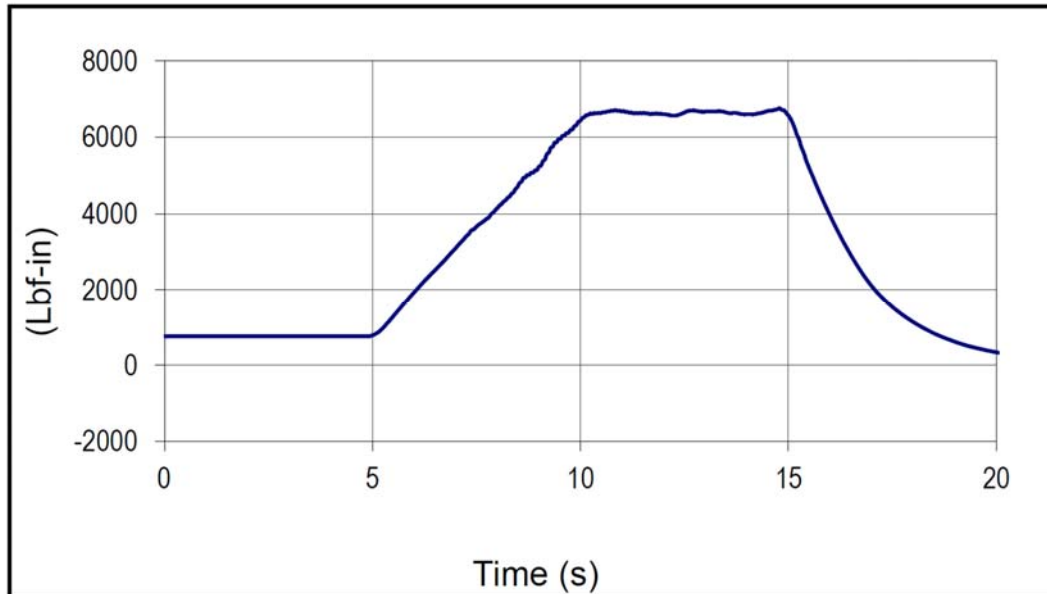


Figure 13: Data Plot of FMVSS 207 Aft Moment Force



Figure 14: Post-Test Photograph of FMVSS 207 Aft Moment Force

FMVSS 207 Aft Seat Force (lbf)

Max: 2429.6 lbf at 13.1 s

Min: 19.4 lbf at 25.0 s

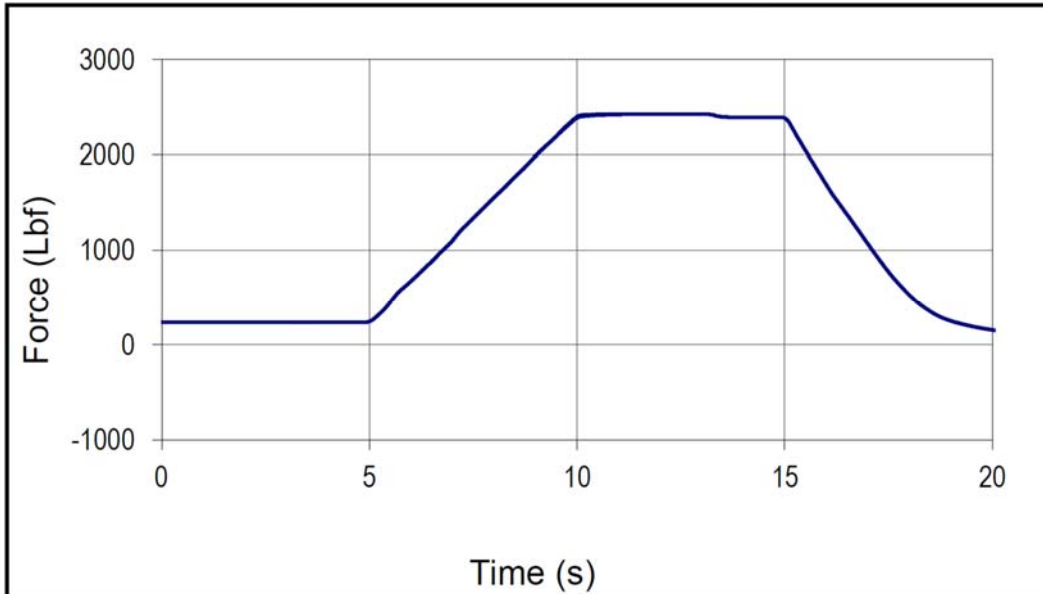


Figure 15: Data Plot of FMVSS 207 Aft Seat Force



Figure 16: Post-Test Photograph of FMVSS 207 Aft Seat Force

FMVSS 207 Forward Seat Force (lbf)

Max: 2393.4 lbf at 14.8 s

Min: 75.4 lbf at 24.9 s

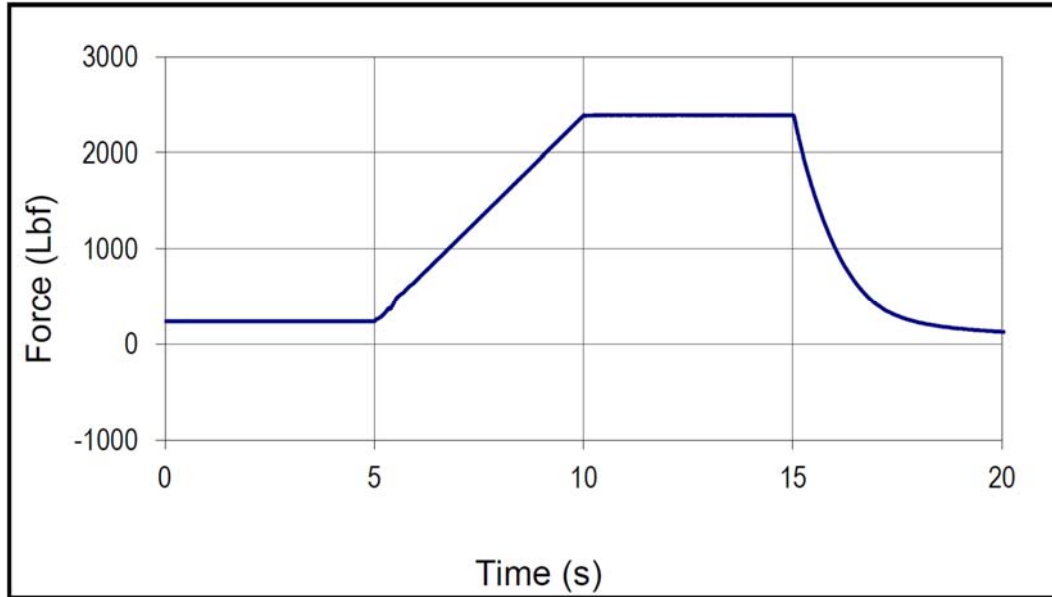


Figure 17: Data Plot of FMVSS 207 Forward Seat Force



Figure 18: Post-Test Photograph of FMVSS 207 Forward Seat Force

FMVSS 207 Seat Force (lbf)

Max: 2448.1 lbf at 38.7 s

Min: 27.5 lbf at 0.2 s

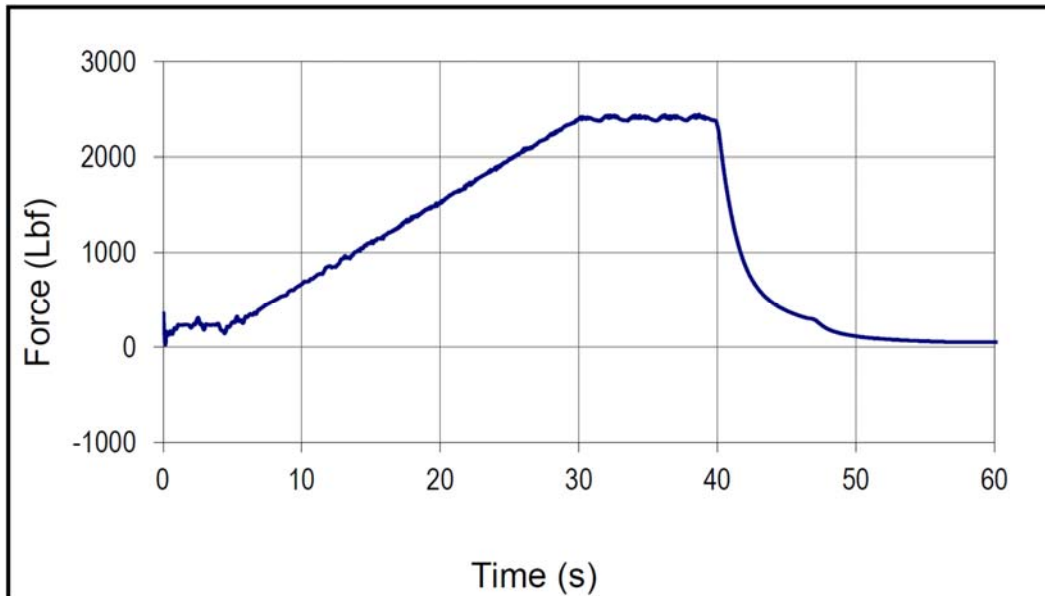


Figure 19: Data Plot of FMVSS 207 Seat Force



Figure 20: Post-Test Photograph of FMVSS 207 Seat Force

FMVSS 210 Lap Belt Force (Left Side) (lbf)

Max: 3243.4 lbf at 38.6 s

Min: 95.5 lbf at 1.1 s

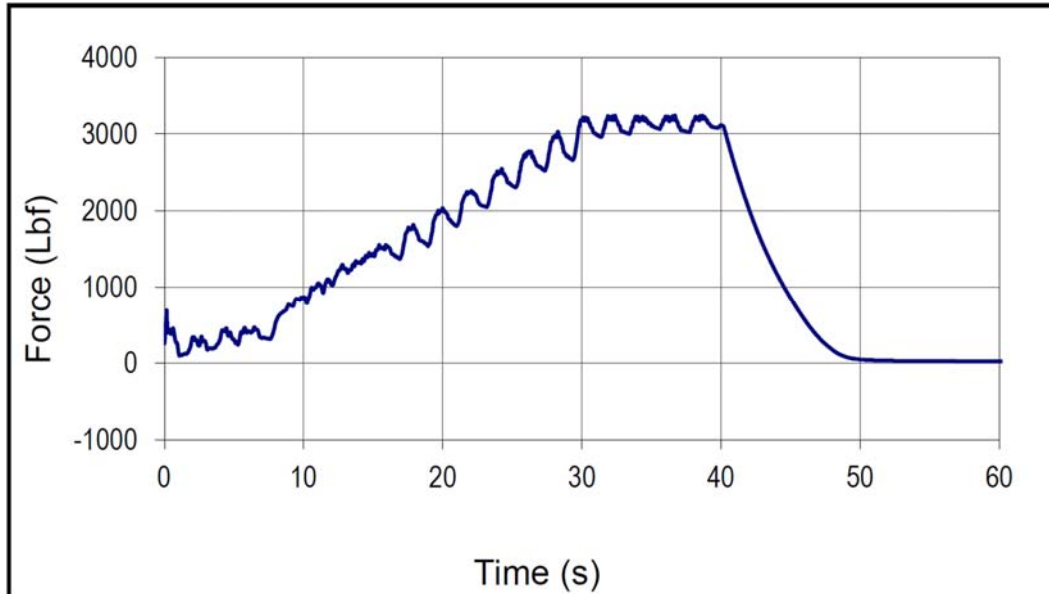


Figure 21: Data Plot of FMVSS 210 Lap Belt Force (Left Side)



Figure 22: Post-Test Photograph of FMVSS 210 Lap Belt Force (Left Side)

FMVSS 210 Shoulder Belt Force (Left Side) (lbf)

Max: 3144.4 lbf at 36.0 s

Min: 224.1 lbf at 0.1 s

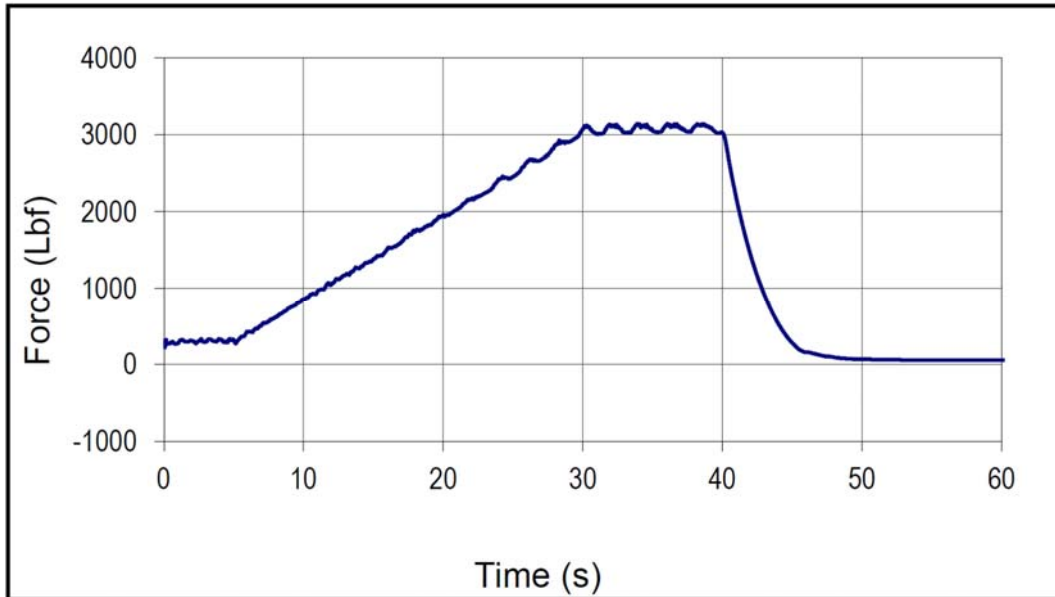


Figure 23: Data Plot of FMVSS 210 Shoulder Belt Force (Left Side)



Figure 24: Post-Test Photograph of FMVSS 210 Shoulder Belt Force (Left Side)

FMVSS 210 Lap Belt Force (Right Side) (lbf)

Max: 3244.9 lbf at 38.6 s

Min: 107.2 lbf at 1.2 s

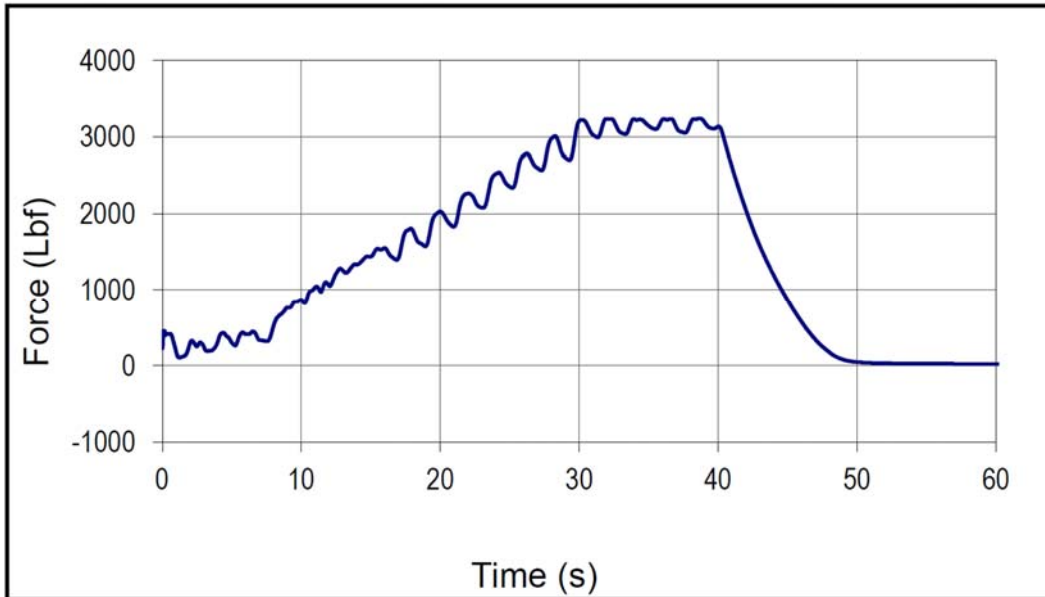


Figure 25: Data Plot of FMVSS 210 Lap Belt Force (Right Side)



Figure 26: Post-Test Photograph of FMVSS 210 Lap Belt Force (Right Side)

FMVSS 210 Shoulder Belt Force (Right Side) (lbf)

Max: 3049.6 lbf at 38.6 s

Min: 200.3 lbf at 0.1 s

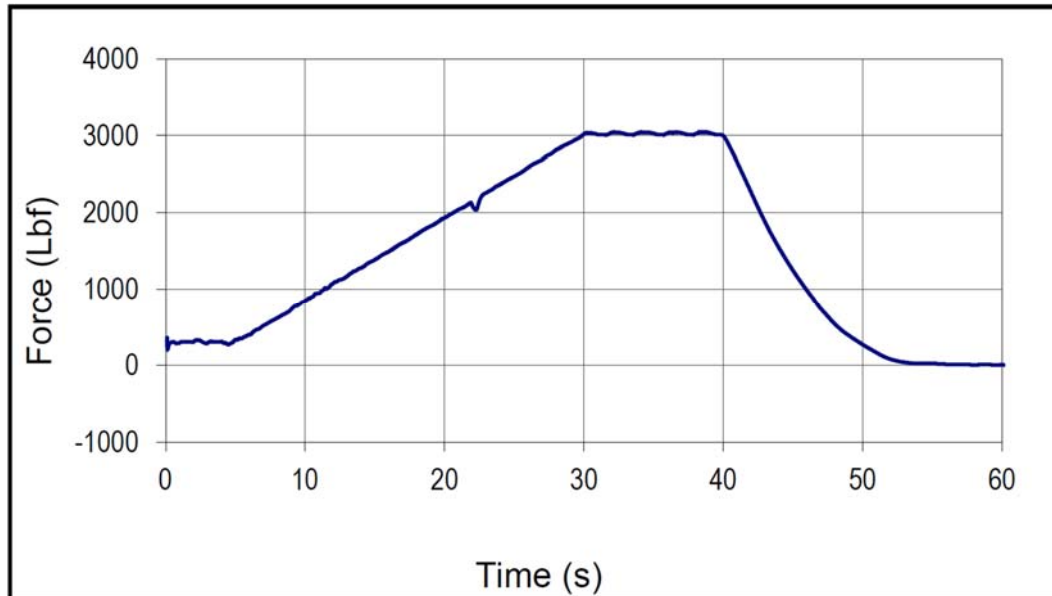


Figure 27: Data Plot of FMVSS 210 Shoulder Belt Force (Right Side)



Figure 28: Post-Test Photograph of FMVSS 210 Shoulder Belt Force (Right Side)