

636877

Report Number: 208-VRIC-03-002

Safety Compliance Testing for FMVSS 208
Occupant Crash Protection
Suppression and Driver Low Risk Deployment Tests

General Motors Corporation
2003 Chevrolet Tahoe
NHTSA Number: C30103

Vehicle Research and Test Center
10820 State Route 347
East Liberty, OH 43319



Report Date: July 8, 2003

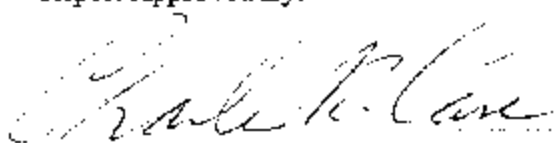
Final Report

Prepared By:
U. S. Department of Transportation
National Highway Traffic Safety Administration
Office of Enforcement
Office of Vehicle Safety Compliance (NVS-220)
400 Seventh Street, S.W., Room No. 6115
Washington, DC 20590

This publication is distributed by the U.S. Department of Transportation, National Highway Traffic Safety Administration, in the interest of information exchange. The opinions, findings and conclusions expressed in this publication are those of the author(s) and not necessarily those of the Department of Transportation or the National Highway Traffic Safety Administration. The United States Government assumes no liability for its contents or use thereof. If trade or manufacturers' names or products are mentioned, it is only because they are considered essential to the object of the publication and should not be construed as an endorsement. The United States Government does not endorse products or manufacturers.

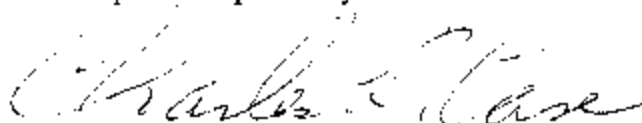
Tests Performed By: Brian Smith, NHTSA, Safety Compliance Engineer
Charles Case, NHTSA, Safety Compliance Engineer
Allison Loudon, TRC, Engineer
Gene Fout, TRC, Engineering Technician

Report Approved By:

 Date 7/8/03

Charles Case, Safety Compliance Engineer
NHTSA, Office of Vehicle Safety Compliance

Final Report Acceptance By OVSC:

 Date 7/8/03

Contracting Officer's Technical Representative (COTR),
NHTSA, Office of Vehicle Safety Compliance

Technical Report Documentation Page

1. Report No. 208-VRTC-03-002	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle Final Report of FMVSS 208 Compliance Testing of a 2003 Chevrolet Tahoe NHTSA No. C30103		5. Report Date June , 2003	
		6. Performing Organization Code VRTC	
7. Author(s) Charles Case, Safety Compliance Engineer NHTSA, Office of Vehicle Safety Compliance		8. Performing Organization Report No. _____	
9. Performing Organization Name and Address Vehicle Research and Test Center 10820 State Route 347 East Liberty, OH 43319		10. Work Unit No.	
		11. Contract or Grant No. DTNH22-02-D-08062 T.O. VRTC-DCF2525	
12. Sponsoring Agency Name and Address U.S. Department of Transportation National Highway Traffic Safety Administration Office of Enforcement Office of Vehicle Safety Compliance (NVS-220) 400 Seventh Street, S.W., Room 6115 Washington, DC 20590		13. Type of Report and Period Covered Final Report October 2002	
		14. Sponsoring Agency Code NVS-220	
15. Supplemental Notes None			
16. Abstract Suppression and Low Risk Deployment compliance tests were conducted on a 2003 Chevrolet Tahoe, NHTSA No. C30103, in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP208-1 for the determination of FMVSS 208 compliance. Possible test failures identified were as follows: None			
17. Key Words Compliance Testing Safety Engineering FMVSS 208		18. Distribution Statement Copies of this report are available from: NHTSA Technical Information Services (TIS) NPO-230 400 Seventh Street, S.W., Room 5108 Washington, DC 20590 Telephone: 202-366-4946	
19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. Number of Pages	22. Price

Table of Contents

<u>Section</u>	<u>Description</u>	<u>Page</u>
Section 1	Purpose of Compliance Test	1-1
Section 2	Tests Performed	2-1
Section 3	Injury Result Summary	3-1
Section 4	Discussion of Test	4-1
Section 5	Test Data Sheets	5-1
Section 6	Test Data	6-1
Section 7	Photographs	7-1

List of Data Sheets

Data Sheet Number	Description	Page No.
1	COTR Work Order	5-2
14	Britax Handle w/Care, 12-month, Suppression, Mid Track	5-6
14	Britax Handle w/Care, 12-month, Suppression, Rearmost Track	5-9
14	Britax Handle w/Care, 12-month, Suppression, Foremost Track	5-12
25	Reactivation of Air Bag w/5 th Female, Rearmost Track	5-15
14	Evenflo first Choice, 12-month, Suppression, Foremost Track	5-17
14	Evenflo first Choice, 12-month, Suppression, Mid Track	5-20
14	Evenflo first Choice, 12-month, Suppression, Rearmost Track	5-23
25	Reactivation of Air Bag w/5 th Female, Rearmost Track	5-26
14	Graco Snug Ride (Infant 8457) w/Base, 12-month, Suppression, Rearmost Track	5-28
14	Graco Snug Ride (Infant 8457) w/Base, 12-month, Suppression, Mid Track	5-31
14	Graco Snug Ride (Infant 8457) w/Base, 12-month, Suppression, Foremost Track	5-34
14	Graco Snug Ride (Infant 8457) w/o Base, 12-month, Suppression, Foremost Track	5-37
14	Graco Snug Ride (Infant 8457) w/o Base, 12-month, Suppression, Rearmost Track	5-40
14	Graco Snug Ride (Infant 8457) w/o Base, 12-month, Suppression, Mid Track	5-43
14	Britax Roundabout, 12-month, Suppression, Foremost Track	5-46
14	Britax Roundabout, 12-month, Suppression, Rearmost Track	5-49
14	Britax Roundabout, 12-month, Suppression, Mid Track	5-52
14	Century Encore, 12-month, Suppression, Mid Track	5-55
14	Century Encore, 12-month, Suppression, Foremost Track	5-58
14	Century Encore, 12-month, Suppression, Rearmost Track	5-61

Data Sheet Number	Description	Page No.
14	Evenflo Medallion, 12-month, Suppression, Rearmost Track	5-64
14	Evenflo Medallion, 12-month, Suppression, Mid Track	5-67
14	Evenflo Medallion, 12-month, Suppression, Foremost Track	5-70
15	Cosco Dream Ride, Newborn infant, Foremost Track	5-73
25	Reactivation of Air Bag w/5 th Female, Rearmost Track	5-74
17	Britax Roundabout, 3-Year-Old Suppression	5-76
17	Century Encore, 3-Year-Old Suppression	5-77
17	Evenflo Medallion, 3-Year-Old Suppression	5-78
16	Century Next Step, 3-Year-Old Suppression	5-79
16	Cosco High Back Booster, 3-Year-Old Suppression	5-80
18	Suppression Tests with 3-year-old	5-81
25	Reactivation of Air Bag w/5 th Female, Rearmost Track	5-82
19	Century Next Step, 6-Year-Old Suppression	5-84
19	Cosco High Back Booster, 6-Year-Old Suppression	5-85
19	Evenflo Right Fit, 6-Year-Old Suppression	5-86
20	6-Year-Old Dummy Suppression	5-87
24	Low Risk Deployment, 5 th Female Driver, Chin on Rim	5-88

Section 1

Purpose of Compliance Test

PURPOSE

This Federal Motor Vehicle Safety Standard 208 compliance test is part of a program conducted for the National Highway Traffic Safety Administration by Transportation research Center (TRC Inc.) under contract DTNH22-02-D-08062, Task Order VRTC-DCF2525. The purpose of the test was to determine whether the subject vehicle, a 2003 Chevrolet Tahoe, NHTSA No. C30103 meets the suppression and low risk deployment performance requirements of FMVSS 208, "Occupant Crash Protection". The compliance test was conducted in accordance with OVSC Laboratory Test Procedure No. TP-208-11 dated August 22, 2002.

Section 2

Tests Performed

TESTS PERFORMED

The following checked items indicate the tests that were performed:

- ☐ 1. Rear outboard seating position seat belts (S4.1.4.2(b) & (S4.2.4)
- ☐ 2. Air bag labels (S4.5.1)
- ☐ 3. Readiness indicator (S4.5.2)
- ☐ 4. Passenger Air Bag Manual Cut-Off Device (S4.5.4)
- ☐ 5. Lap belt lockability (S7.1.1.5)
- ☐ 6. Seat belt warning system (S7.3)
- ☐ 7. Seat belt contact force (S7.4.3)
- ☐ 8. Seat belt latch plate access (S7.4.4)
- ☐ 9. Seat belt retraction (S7.4.5)
- ☐ 10. Seat belt guides and hardware (S7.4.6)
- ☒ 11. Suppression tests with 12-month-old CRABI dummy (Part 572, Subpart N)
- ☒ 12. Suppression tests with Newborn infant Subpart K dummy (Part 572, Subpart N)
- ☒ 13. Suppression tests with 3-year-old dummy (Part 572, Subpart P)
- ☒ 14. Suppression tests with 6-year-old dummy (Part 572, Subpart R)
- ☒ 15. Test of Reactivation of the passenger Air Bag system with an Unbelted 5th Percentile female dummy
- ☐ 16. Low risk deployment test with 12-month-old dummy (Part 572, Subpart N)
- ☐ 17. Low risk deployment test with 3 year old dummy (Part 572, Subpart P)
- ☐ 18. Low risk deployment test with 6-year-old dummy (Part 572, Subpart R)
- ☒ 19. Low risk deployment test with 5th female dummy (Part 572, Subpart O)
- ☐ 20. Impact tests
 - ☐ Frontal Oblique
 - ☐ Belted 50th male dummy driver and passenger (0 to 48 km/h) (S5.1.1.(a))
 - ☐ Unbelted 50th male dummy driver and passenger (0 to 48 km/h) (S5.1.2(a)(1))
 - ☐ Unbelted 50th male dummy driver and passenger (32 to 40 km/h) (S5.1.2(a)(1) or S5.1.2(b))
 - ☐ Frontal 0°
 - ☐ Belted 50th male dummy driver (0 to 48 km/h) (S5.1.1(b)(1) or S5.1.1(a))
 - ☐ Belted 50th male dummy passenger (0 to 48 km/h) (S5.1.1(b)(1) or S5.1.1(a))
 - ☐ Belted 5th female dummy driver (0 to 48 km/h) (S16.1(a))
 - ☐ Belted 5th female dummy passenger (0 to 48 km/h) (S16.1(a))
 - ☐ Belted 50th male dummy driver and passenger (0 to 56 km/h) (S5.1.1(b)(2))
 - ☐ Unbelted 50th male dummy driver and passenger (0 to 48 km/h) (S5.1.2(a)(1))
 - ☐ Unbelted 50th male dummy driver (32 to 40 km/h) (S5.1.2(a)(2) or S5.1.2(b))
 - ☐ Unbelted 50th male dummy passenger (32 to 40 km/h) (S5.1.2(a)(2) or S5.1.2(b))
 - ☐ Unbelted 5th female dummy driver (32 to 40 km/h) (S16.1(b))
 - ☐ Unbelted 5th female dummy passenger (32 to 40 km/h) (S16.1(b))
 - ☐ 40% Offset 0° Belted 5th female dummy driver and passenger (0 to 40 km/h) (S18.1)
- ☐ 21. Sled test: Unbelted 50th male dummy driver and passenger (S13)

- ____ 22. FMVSS 204 indicant test
- ____ 23. FMVSS 212 test
- ____ 24. FMVSS 219 indicant test
- ____ 25 FMVSS 301 frontal test

For the low risk deployment tests, the accelerometer data from the dummies were sampled at 17,500 samples per second and processed as specified in SAE J211/1 MAR95 and FMVSS 208, S4.13.

The low risk deployment tests were recorded using high-speed digital motion picture cameras.

The vehicle appears to meet the performance requirements to which it was tested

Section 3

Injury Result Summary

**INJURY RESULT SUMMARY FOR CRASH TESTS AND/OR
LOW RISK DEPLOYMENT TESTS**

NHTSA No.: C30103

Test Date: 10/30/02

VIN: 1GNEK13ZX3R106320

Frontal Crash ☐ Offset Crash ☐ Low Risk Deployment ☒

Impact Angle: 0

Belted Dummies: ☐ Yes ☒ No

Speed Range: ☐ 32 to 40 km/h ☐ 0 to 40 km/h ☐ 0 to 48 km/h ☐ 0 to 56 km/h

Test Speed: N/A

Driver Dummy: ☒ 5th female ☐ 50th male

Passenger Dummy: ☐ 5th female ☐ 50th male

Test weight: N/A

**5th Percentile Female Low Risk Deployment Test
Vehicles certified to S25.3**

Injury Criteria	Max. Allowable Injury Assessment Values	Position 1* Chin on Module	Position 2 Chin on Rim
HIC15	700	N/A	8
N _{te}	1.0	N/A	0.4
N _{tf}	1.0	N/A	0.2
N _{ce}	1.0	N/A	0.0
N _{cf}	1.0	N/A	0.2
Neck tension	2070 N	N/A	717
Neck compression	2520 N	N/A	139
Chest g	60 g	N/A	23
Chest displacement	52 mm	N/A	29
Left femur	6805 N	N/A	45
Right femur	6805 N	N/A	29

*Position 1 not tested

Section 4

Discussion of Test

DISCUSSION OF TEST

Suppression Tests

There have been two Appendix A child restraint lists published. The Federal Register publish dates were May 12, 2000 and December 18, 2001. There were ten child restraints common to both lists. These ten restraints were the ones used, when the suppression testing required use of a child restraint. The following is a list of those restraints:

1. Britax Handle with Care 191
2. Britax Roundabout 161
3. Century Encore 4612
4. Century Next Step 4920
5. Cosco Dream Ride 02-719
6. Cosco High Back Booster 02-442
7. Evenflo First Choice 204
8. Evenflo Medallion 254
9. Evenflo Right Fit 245
10. Graco Infant 8457

The following table shows the break down by category of restraints tested:

	May 12	December 18	Tested
Car bed	1	1	1
Convertibles	11	10	3
Forward Facing	7	7	3
Boosters	4	4	3
Total	23	22	10

The suppression system in this truck was weight based. Therefore, neither the fore-aft seat position nor the child seat variations (blanket, handle, and sun shield) had an effect on suppression of the air bag. In addition, since the vehicle had seat belts integral to the seat, the seat belt load did not have to be adjusted after the original setting when the seat was moved to a different fore-aft seat position. A 2003 Chevrolet Silverado with the same suppression system was tested previously using the foremost, middle and forward most seat track positions. Therefore, it was not necessary to perform suppression test in all 3 seat track positions on this vehicle. In the suppression tests with the 6 year old dummy only the rearmost seat track position was used.

The child restraint and child suppression tests were performed using data sheets from test procedure TP208-11. These data sheets are up to 16 pages in length. Considering that there were no suppression test failures it would only add volume to the report to include each page of the data sheet. In addition, some efficiencies in the procedure were found during these tests, and some part of the forms were not always applicable. (These efficiencies have been incorporated into the most current version of the test procedure, TP208-12.) Therefore, only a summary of the results is included in the data sheet section of this report.

5th Female Driver Low Risk Deployment Tests

There are two 5th female driver low risk deployment tests specified for advanced air bags. Position 1 is chin on module and position 2 is chin on rim. Position 2 was the position used for this vehicle. After the low risk deployment test, the vehicle was repaired at a dealership and then barrier crash tested. The crash test is in a separate report.

Section 5

Test Data Sheets

DATA SHEET 1

COTR Vehicle Work Order

Vehicle model year, make, and model: 2003 Chevrolet Tahoe

NHTSA No.: C30103 Test Date: 10/10/02 to 10/28/02

COTR signature: Charles R. Case

Tests to be performed for this vehicle are checked below.

- ☐ 1. Rear outboard seating position seat belts (S4.1.4.2(h) & (S4.2.4)
- ☐ 2. Air bag labels (S4.5.1)
- ☐ 3. Readiness indicator (S4.5.2)
- ☐ 4. Passenger air bag manual cut-off device (S4.5.4)
- ☐ 5. Lap belt lockability (S7.1.1.5)
- ☐ 6. Seat belt warning system (S7.3)
- ☐ 7. Seat belt contact force (S7.4.3)
- ☐ 8. Seat belt latch plate access (S7.4.4)
- ☐ 9. Seat belt retraction (S7.4.5)
- ☐ 10. Seat belt guides and hardware (S7.4.6)
- ☐ 11. Suppression tests with 12-month-old CRABI dummy (Part 572, Subpart R) using the following indicated child restraints.

Section A

☒ Cosco Dream Ride 02-719 ☐ Full rearward ☐ Mid position ☒ Full forward

Section B

☒ Britax Handle with Care 191 ☒ Full rearward ☒ Mid position ☒ Full forward

☐ Century Assura 4553 ☐ Full rearward ☐ Mid position ☐ Full forward

☐ Century Avanta SE 41530 ☐ Full rearward ☐ Mid position ☐ Full forward

☐ Century Smart Fit 4543 ☐ Full rearward ☐ Mid position ☐ Full forward

☐ Cosco Arriva 02727 ☐ Full rearward ☐ Mid position ☐ Full forward

☐ Cosco Opus 35 02603 ☐ Full rearward ☐ Mid position ☐ Full forward

☐ Evenflo Discovery Adjust Right 212 ☐ Full rearward ☐ Mid position ☐ Full forward

☒ Evenflo First Choice 204 ☒ Full rearward ☒ Mid position ☒ Full forward

☐ Evenflo On My Way Position Right V 282 ☐ Full rearward ☐ Mid position ☐ Full forward

☒ Graco Infant 8457 ☒ Full rearward ☒ Mid position ☒ Full forward

Section C

☒ Britax Roundabout 161 ☒ Full rearward ☒ Mid position ☒ Full forward

☒ Century Encore 4612 ☒ Full rearward ☒ Mid position ☒ Full forward

☐ Century STE 1000 4416 ☐ Full rearward ☐ Mid position ☐ Full forward

☐ Cosco Olympian 02803 ☐ Full rearward ☐ Mid position ☐ Full forward

☐ Cosco Touriva 02519 ☐ Full rearward ☐ Mid position ☐ Full forward

☐ Evenflo Horizon V 425 ☐ Full rearward ☐ Mid position ☐ Full forward

☒ Evenflo Medallion 254 ☒ Full rearward ☒ Mid position ☒ Full forward

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

Section C

☒ Britax Roundabout 161 ☒ Full rearward ☒ Mid position ☒ Full forward

☒ Century Encore 4612 ☒ Full rearward ☒ Mid position ☒ Full forward

☐ Century STE 1000 4416 ☐ Full rearward ☐ Mid position ☐ Full forward

☐ Cosco Olympian 02803 ☐ Full rearward ☐ Mid position ☐ Full forward

☐ Cosco Touriva 02519 ☐ Full rearward ☐ Mid position ☐ Full forward

☐ Evenflo Horizon V 425 ☐ Full rearward ☐ Mid position ☐ Full forward

☒ Evenflo Medallion 254 ☒ Full rearward ☒ Mid position ☒ Full forward

Section D

☐ Britax Roadster 9004	☐ Full rearward	☐ Mid position	☐ Full forward
☒ Century Next Step 4920	☒ Full rearward	☒ Mid position	☒ Full forward
☒ Cosco High Back Booster 02-442	☒ Full rearward	☒ Mid position	☒ Full forward
☐ Evenflo Right Fit 245	☐ Full rearward	☐ Mid position	☐ Full forward

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

Section C

☐ Britax Roundabout 161	☐ Full rearward	☐ Mid position	☐ Full forward
☐ Century Encore 4612	☐ Full rearward	☐ Mid position	☐ Full forward
☐ Century STE 1000 4116	☐ Full rearward	☐ Mid position	☐ Full forward
☐ Cosco Olympian 02303	☐ Full rearward	☐ Mid position	☐ Full forward
☐ Cosco Touriva 02519	☐ Full rearward	☐ Mid position	☐ Full forward
☐ Evenflo Horizon V 425	☐ Full rearward	☐ Mid position	☐ Full forward
☐ Evenflo Medallion 254	☐ Full rearward	☐ Mid position	☐ Full forward

Section D

☐ Britax Roadster 9004	☐ Full rearward	☐ Mid position	☐ Full forward
☐ Century Next Step 4920	☐ Full rearward	☐ Mid position	☐ Full forward
☐ Cosco High Back Booster 02-442	☐ Full rearward	☐ Mid position	☐ Full forward
☐ Evenflo Right Fit 245	☐ Full rearward	☐ Mid position	☐ Full forward

14. Suppression tests with 3 year-old dummy (Part 572, Subpart P) in the following positions

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

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

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

16. 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

☐ Britax Roadster 9004	☐ Full rearward	☐ Mid position	☐ Full forward
☒ Century Next Step 4920	☒ Full rearward	☐ Mid position	☐ Full forward
☒ Cosco High Back Booster 02-442	☒ Full rearward	☐ Mid position	☐ Full forward
☒ Evenflo Right Fit 245	☒ Full rearward	☐ Mid position	☐ Full forward

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

Section D

☐ Britax Roadster 9004	☐ Full rearward	☐ Mid position	☐ Full forward
☐ Century Next Step 4920	☐ Full rearward	☐ Mid position	☐ Full forward
☐ Cosco High Back Booster 02-442	☐ Full rearward	☐ Mid position	☐ Full forward
☐ Evenflo Right Fit 245	☐ Full rearward	☐ Mid position	☐ Full forward

18. Suppression tests with 6-year old dummy (Part 572, Subpart N) 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 dummy's side (S22.2.2.4)

- ☒ Sitting back in the seat and leaning on the right front passenger door (S24.2.3)
19. 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 dummy's side (S22.2.2.4)
 - ☐ Sitting back in the seat and leaning on the right front passenger door (S24.2.3)
20. Low risk deployment test with 12-month-old dummy (Part 572, Subpart R) using the following indicated child restraints.

Section B

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

Section C

☐ Britax Roundabout 161	☐ Full rearward	☐ Mid position	☐ Full forward
☐ Century Encore 4612	☐ Full rearward	☐ Mid position	☐ Full forward
☐ Century STE 1000 4416	☐ Full rearward	☐ Mid position	☐ Full forward
☐ Cosco Olympian 02803	☐ Full rearward	☐ Mid position	☐ Full forward
☐ Cosco Touriva 02519	☐ Full rearward	☐ Mid position	☐ Full forward
☐ Evenflo Horizon V 425	☐ Full rearward	☐ Mid position	☐ Full forward
☐ Evenflo Medallion 254	☐ Full rearward	☐ Mid position	☐ Full forward

- ☒ 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 test(s):

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 test(s):

23. Low risk deployment test with 3-year-old dummy (Part 572, Subpart P) in the following positions

- ☐ Position 1
- ☐ Position 2

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

- ☐ Position 1
- ☐ Position 2

- ☒ 25. Low risk deployment test with 5th female dummy (Part 572, Subpart O) in the following positions

- ☐ Position 1
- ☒ Position 2

26. Impact tests

- ☐ Frontal Oblique Test Speed _____
- ☐ Belted 50th male dummy driver and passenger ((0 to 48 km/h) (S5.1.1(a))
 - ☐ Unbelted 50th male dummy driver and passenger ((0 to 48 km/h) (S5.1.2(a)(1))
 - ☐ Unbelted 50th male dummy driver and passenger ((32 to 40 km/h) (S5.1.2(a)(1) or S5.1.2(b))
- ☐ Frontal 0° Test Speed _____
- ☐ Belted 50th male dummy driver ((0 to 48 km/h) (S5.1.1(b)(1) or S5.1.1(a))
 - ☐ Belted 50th male dummy passenger ((0 to 48 km/h) (S5.1.1(h)(1) or S5.1.1(a))
 - ☐ Belted 5th female dummy driver ((0 to 48 km/h) (S16.1(a))
 - ☐ Belted 5th female dummy passenger ((0 to 48 km/h) (S16.1(a))

- _____ Belted 50th male dummy driver and passenger ((0 to 56 km/h) (S5.1.1(b)(2))
- _____ Unbelted 50th male dummy driver and passenger ((0 to 48 km/h) (S5.1.2(a)(1))
- _____ Unbelted 50th male dummy driver ((32 to 40 km/h) (S5.1.2(a)(2) or S5.1.2(b))
- _____ Unbelted 50th male dummy passenger (32 to 40 km/h) (S5.1.2(a)(2) or S5.1.2(b))
- _____ Unbelted 5th female dummy driver (32 to 40 km/h) (S16.1(b))
- _____ Unbelted 5th female dummy passenger (32 to 40 km/h) (S16.1(b))
- _____ 40% Offset 0" Belted 5th female dummy driver and passenger (0 to 40 km/h) (S18.1)
- _____ Test Speed 40 km/h see test procedure for speed tolerance
- _____ 27. Sled test: Unbelted 50th male dummy driver and passenger (S13)
- _____ 28. FMVSS 204 indicant test
- _____ 29. FMVSS 212 test
- _____ 30. FMVSS 219 indicant test
- _____ 31. FMVSS 301 frontal test

RESULTS FROM DATA SHEET 14

Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20)

NHTSA No. C3C103 Test Date: 10/10/02
 Laboratory: VRTC Test Technician(s): C. Case, B. Smith, G. Fout
 Child Restraint Name, Model, Date of Manufacture: Britax Handle with Care
 Base: On Off X N/A-Restraint does not have a removable base
 Seat Position: Rearmost, mid-height X Mid-position, mid-height Foremost, mid-height

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
1	Belted	Rear	Down	In-use	None	N/A	N/A
2	Belted	Rear	Down	Stowed	None	N/A	Suppressed
3	Belted	Rear	Upright	In-use	None	N/A	Suppressed
4	Belted	Rear	Upright	Stowed	None	N/A	Suppressed
5	Belted	Rear	Down	In-use	On	N/A	N/A
6	Belted	Rear	Down	Stowed	On	N/A	Suppressed
7	Belted	Rear	Upright	In-use	On	N/A	Suppressed
8	Belted	Rear	Upright	Stowed	On	N/A	Suppressed
9	Belted	Rear	Down	In-use	N/A	On	N/A
10	Belted	Rear	Down	Stowed	N/A	On	Suppressed
11	Belted	Rear	Upright	In-use	N/A	On	Suppressed
12	Belted	Rear	Upright	Stowed	N/A	On	Suppressed
13	Unbelted	Rear	Down	In-use	None	N/A	N/A
14	Unbelted	Rear	Down	Stowed	None	N/A	Suppressed
15	Unbelted	Rear	Upright	In-use	None	N/A	Suppressed
16	Unbelted	Rear	Upright	Stowed	None	N/A	Suppressed
17	Unbelted	Rear	Down	In-use	On	N/A	N/A
18	Unbelted	Rear	Down	Stowed	On	N/A	Suppressed
19	Unbelted	Rear	Upright	In-use	On	N/A	Suppressed
20	Unbelted	Rear	Upright	Stowed	On	N/A	Suppressed
21	Unbelted	Rear	Down	In-use	N/A	On	N/A
22	Unbelted	Rear	Down	Stowed	N/A	On	Suppressed
23	Unbelted	Rear	Upright	In-use	N/A	On	Suppressed
24	Unbelted	Rear	Upright	Stowed	N/A	On	Suppressed
25	225	Rear	Down	In-use	None	N/A	N/A
26	225	Rear	Down	Stowed	None	N/A	N/A
27	225	Rear	Upright	In-use	None	N/A	N/A
28	225	Rear	Upright	Stowed	None	N/A	N/A
29	225	Rear	Down	In-use	On	N/A	N/A
30	225	Rear	Down	Stowed	On	N/A	N/A
31	225	Rear	Upright	In-use	On	N/A	N/A
32	225	Rear	Upright	Stowed	On	N/A	N/A
33	225	Rear	Down	In-use	N/A	On	N/A
34	225	Rear	Down	Stowed	N/A	On	N/A
35	225	Rear	Upright	In-use	N/A	On	N/A
36	225	Rear	Upright	Stowed	N/A	On	N/A

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
37	Belted	Forward ⁵	Down	In-use	None	N/A	N/A
38	Belted	Forward ⁵	Down	Stowed	None	N/A	N/A
39	Belted	Forward ⁵	Upright	In-use	None	N/A	N/A
40	Belted	Forward ⁵	Upright	Stowed	None	N/A	N/A
41	Belted	Forward ⁵	Down	In-use	On	N/A	N/A
42	Belted	Forward ⁵	Down	Stowed	On	N/A	N/A
43	Belted	Forward ⁵	Upright	In-use	On	N/A	N/A
44	Belted	Forward ⁵	Upright	Stowed	On	N/A	N/A
45	Belted	Forward ⁵	Down	In-use	N/A	On	N/A
46	Belted	Forward ⁵	Down	Stowed	N/A	On	N/A
47	Belted	Forward ⁵	Upright	In-use	N/A	On	N/A
48	Belted	Forward ⁵	Upright	Stowed	N/A	On	N/A
49	Unbelted	Forward	Down	In-use	None	N/A	N/A
50	Unbelted	Forward	Down	Stowed	None	N/A	N/A
51	Unbelted	Forward	Upright	In-use	None	N/A	N/A
52	Unbelted	Forward	Upright	Stowed	None	N/A	N/A
53	Unbelted	Forward	Down	In-use	On	N/A	N/A
54	Unbelted	Forward	Down	Stowed	On	N/A	N/A
55	Unbelted	Forward	Upright	In-use	On	N/A	N/A
56	Unbelted	Forward	Upright	Stowed	On	N/A	N/A
57	Unbelted	Forward	Down	In-use	N/A	On	N/A
58	Unbelted	Forward	Down	Stowed	N/A	On	N/A
59	Unbelted	Forward	Upright	In-use	N/A	On	N/A
60	Unbelted	Forward	Upright	Stowed	N/A	On	N/A
61	225	Forward ⁵	Down	In-use	None	N/A	N/A
62	225	Forward ⁵	Down	Stowed	None	N/A	N/A
63	225	Forward ⁵	Upright	In-use	None	N/A	N/A
64	225	Forward ⁵	Upright	Stowed	None	N/A	N/A
65	225	Forward ⁵	Down	In-use	On	N/A	N/A
66	225	Forward ⁵	Down	Stowed	On	N/A	N/A
67	225	Forward ⁵	Upright	In-use	On	N/A	N/A
68	225	Forward ⁵	Upright	Stowed	On	N/A	N/A
69	225	Forward ⁵	Down	In-use	N/A	On	N/A
70	225	Forward ⁵	Down	Stowed	N/A	On	N/A
71	225	Forward ⁵	Upright	In-use	N/A	On	N/A
72	225	Forward ⁵	Upright	Stowed	N/A	On	N/A

- 1 If there is no handle, place N/A in the Suppressed/FAIL column in the rows marked "Upright."
"Down" means the child restraint manufacturer's recommended position or there is no handle.
- 2 If there is no sunshield, place N/A in the Suppressed/FAIL column in the rows marked "In-use."
- 3 Blanket position 1 (S20.1.5(a)): Place a blanket on the child restraint so that the top and side edges of the restraint are covered. The vehicle seat shall not support the blanket.
- 4 Blanket position 2 (S20.1.5(b)): Place a blanket on the child restraint so that it rests on the top of the vehicle's seat back and the forward most (towards the instrument panel) edge of the child restraint.
- 5 Convertible restraints ONLY (S20.2.1.5) (Appendix A, section C)

Record the weight of the blanket. (Cannot be more than 1 kg (2.2 lb).) _____ 0.2 kg for
lines 6,7,8,11, and 12. 0.3kg for all other blanket positions. (S20:1.5)

Comments (Record any position readjustments or problems by first stating the row
number to which the comment applies.):

The seat belt tension was 99.6 N for all belted positions

RESULTS FROM DATA SHEET 14

Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20)

NHTSA No. C30103

Test Date: 10/10/02

Laboratory: VRTC

Test Technician(s): C. Case, B. Smith, G. Fout

Child Restraint Name, Model, Date of Manufacture: Britax Handle with Care

Base: On Off X N/A-Restraint does not have a removable base

Seat Position: X Rearmost, mid-height Mid-position, mid-height Foremost, mid-height

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ² (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ² Position 1 (S20.1.5(a))	Blanket ² Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
1	Belted	Rear	Down	In-use	None	N/A	N/A
2	Belted	Rear	Down	Stowed	None	N/A	Suppressed
3	Belted	Rear	Upright	In-use	None	N/A	Suppressed
4	Belted	Rear	Upright	Stowed	None	N/A	Suppressed
5	Belted	Rear	Down	In-use	On	N/A	N/A
6	Belted	Rear	Down	Stowed	On	N/A	Suppressed
7	Belted	Rear	Upright	In-use	On	N/A	Suppressed
8	Belted	Rear	Upright	Stowed	On	N/A	Suppressed
9	Belted	Rear	Down	In-use	N/A	On	N/A
10	Belted	Rear	Down	Stowed	N/A	On	Suppressed
11	Belted	Rear	Upright	In-use	N/A	On	Suppressed
12	Belted	Rear	Upright	Stowed	N/A	On	Suppressed
13	Unbelted	Rear	Down	In-use	None	N/A	N/A
14	Unbelted	Rear	Down	Stowed	None	N/A	Suppressed
15	Unbelted	Rear	Upright	In-use	None	N/A	Suppressed
16	Unbelted	Rear	Upright	Stowed	None	N/A	Suppressed
17	Unbelted	Rear	Down	In-use	On	N/A	N/A
18	Unbelted	Rear	Down	Stowed	On	N/A	Suppressed
19	Unbelted	Rear	Upright	In-use	On	N/A	Suppressed
20	Unbelted	Rear	Upright	Stowed	On	N/A	Suppressed
21	Unbelted	Rear	Down	In-use	N/A	On	N/A
22	Unbelted	Rear	Down	Stowed	N/A	On	Suppressed
23	Unbelted	Rear	Upright	In-use	N/A	On	Suppressed
24	Unbelted	Rear	Upright	Stowed	N/A	On	Suppressed
25	225	Rear	Down	In-use	None	N/A	N/A
26	225	Rear	Down	Stowed	None	N/A	N/A
27	225	Rear	Upright	In-use	None	N/A	N/A
28	225	Rear	Upright	Stowed	None	N/A	N/A
29	225	Rear	Down	In-use	On	N/A	N/A
30	225	Rear	Down	Stowed	On	N/A	N/A
31	225	Rear	Upright	In-use	On	N/A	N/A
32	225	Rear	Upright	Stowed	On	N/A	N/A
33	225	Rear	Down	In-use	N/A	On	N/A
34	225	Rear	Down	Stowed	N/A	On	N/A
35	225	Rear	Upright	In-use	N/A	On	N/A
36	225	Rear	Upright	Stowed	N/A	On	N/A

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
37	Belted	Forward ⁵	Down	In-use	None	N/A	N/A
38	Belted	Forward ⁵	Down	Stowed	None	N/A	N/A
39	Belted	Forward ⁵	Upright	In-use	None	N/A	N/A
40	Belted	Forward ⁵	Upright	Stowed	None	N/A	N/A
41	Belted	Forward ⁵	Down	In-use	On	N/A	N/A
42	Belted	Forward ⁵	Down	Stowed	On	N/A	N/A
43	Belted	Forward ⁵	Upright	In-use	On	N/A	N/A
44	Belted	Forward ⁵	Upright	Stowed	On	N/A	N/A
45	Belted	Forward ⁵	Down	In-use	N/A	On	N/A
46	Belted	Forward ⁵	Down	Stowed	N/A	On	N/A
47	Belted	Forward ⁵	Upright	In-use	N/A	On	N/A
48	Belted	Forward ⁵	Upright	Stowed	N/A	On	N/A
49	Unbelted	Forward	Down	In-use	None	N/A	N/A
50	Unbelted	Forward	Down	Stowed	None	N/A	N/A
51	Unbelted	Forward	Upright	In-use	None	N/A	N/A
52	Unbelted	Forward	Upright	Stowed	None	N/A	N/A
53	Unbelted	Forward	Down	In-use	On	N/A	N/A
54	Unbelted	Forward	Down	Stowed	On	N/A	N/A
55	Unbelted	Forward	Upright	In-use	On	N/A	N/A
56	Unbelted	Forward	Upright	Stowed	On	N/A	N/A
57	Unbelted	Forward	Down	In-use	N/A	On	N/A
58	Unbelted	Forward	Down	Stowed	N/A	On	N/A
59	Unbelted	Forward	Upright	In-use	N/A	On	N/A
60	Unbelted	Forward	Upright	Stowed	N/A	On	N/A
61	225	Forward ⁵	Down	In-use	None	N/A	N/A
62	225	Forward ⁵	Down	Stowed	None	N/A	N/A
63	225	Forward ⁵	Upright	In-use	None	N/A	N/A
64	225	Forward ⁵	Upright	Stowed	None	N/A	N/A
65	225	Forward ⁵	Down	In-use	On	N/A	N/A
66	225	Forward ⁵	Down	Stowed	On	N/A	N/A
67	225	Forward ⁵	Upright	In-use	On	N/A	N/A
68	225	Forward ⁵	Upright	Stowed	On	N/A	N/A
69	225	Forward ⁵	Down	In-use	N/A	On	N/A
70	225	Forward ⁵	Down	Stowed	N/A	On	N/A
71	225	Forward ⁵	Upright	In-use	N/A	On	N/A
72	225	Forward ⁵	Upright	Stowed	N/A	On	N/A

- 1 If there is no handle, place N/A in the Suppressed/FAIL column in the rows marked "Upright."
- 2 "Down" means the child restraint manufacturer's recommended position or there is no handle.
- 3 Blanket position 1 (S20.1.5(a)): Place a blanket on the child restraint so that the top and side edges of the restraint are covered. The vehicle seat shall not support the blanket.
- 4 Blanket position 2 (S20.1.5(b)): Place a blanket on the child restraint so that it rests on the top of the vehicle's seat back and the forward most (towards the instrument panel) edge of the child restraint.
- 5 Convertible restraints ONLY (S20.2.1.5) (Appendix A, section C)

Record the weight of the blanket. (Cannot be more than 1 kg (2.2 lb).) 0.3 kg
(S20.1.5)

Comments (Record any position readjustments or problems by first stating the row number to which the comment applies.): _____

The seat belt tension was 99.6 N for all belted positions _____

RESULTS FROM DATA SHEET 14
Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20)

NHTSA No. C30103 Test Date: 10/10/02
 Laboratory: VRTC Test Technician(s): C. Case, B. Smith, G. Fout
 Child Restraint Name, Model, Date of Manufacture: Britax Handle with Care
 Base: On Off X N/A-Restraint does not have a removable base
 Seat Position: Rearmost, mid-height Mid-position, mid-height X Foremost, mid-height

	Bolted, Unbolted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ³ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
1	Bolted	Rear	Down	In-use	None	N/A	N/A
2	Bolted	Rear	Down	Stowed	None	N/A	Suppressed
3	Bolted	Rear	Upright	In-use	None	N/A	Suppressed
4	Bolted	Rear	Upright	Stowed	None	N/A	Suppressed
5	Bolted	Rear	Down	In-use	On	N/A	N/A
6	Bolted	Rear	Down	Stowed	On	N/A	Suppressed
7	Bolted	Rear	Upright	In-use	On	N/A	Suppressed
8	Bolted	Rear	Upright	Stowed	On	N/A	Suppressed
9	Bolted	Rear	Down	In-use	N/A	On	N/A
10	Bolted	Rear	Down	Stowed	N/A	On	Suppressed
11	Bolted	Rear	Upright	In-use	N/A	On	Suppressed
12	Bolted	Rear	Upright	Stowed	N/A	On	Suppressed
13	Unbolted	Rear	Down	In-use	None	N/A	N/A
14	Unbolted	Rear	Down	Stowed	None	N/A	Suppressed
15	Unbolted	Rear	Upright	In-use	None	N/A	Suppressed
16	Unbolted	Rear	Upright	Stowed	None	N/A	Suppressed
17	Unbolted	Rear	Down	In-use	On	N/A	N/A
18	Unbolted	Rear	Down	Stowed	On	N/A	Suppressed
19	Unbolted	Rear	Upright	In-use	On	N/A	Suppressed
20	Unbolted	Rear	Upright	Stowed	On	N/A	Suppressed
21	Unbolted	Rear	Down	In-use	N/A	On	N/A
22	Unbolted	Rear	Down	Stowed	N/A	On	Suppressed
23	Unbolted	Rear	Upright	In-use	N/A	On	Suppressed
24	Unbolted	Rear	Upright	Stowed	N/A	On	Suppressed
25	225	Rear	Down	In-use	None	N/A	N/A
26	225	Rear	Down	Stowed	None	N/A	N/A
27	225	Rear	Upright	In-use	None	N/A	N/A
28	225	Rear	Upright	Stowed	None	N/A	N/A
29	225	Rear	Down	In-use	On	N/A	N/A
30	225	Rear	Down	Stowed	On	N/A	N/A
31	225	Rear	Upright	In-use	On	N/A	N/A
32	225	Rear	Upright	Stowed	On	N/A	N/A
33	225	Rear	Down	In-use	N/A	On	N/A
34	225	Rear	Down	Stowed	N/A	On	N/A
35	225	Rear	Upright	In-use	N/A	On	N/A
36	225	Rear	Upright	Stowed	N/A	On	N/A

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
37	Belted	Forward ⁵	Down	In-use	None	N/A	N/A
38	Belted	Forward ⁵	Down	Stowed	None	N/A	N/A
39	Belted	Forward ⁵	Upright	In-use	None	N/A	N/A
40	Belted	Forward ⁵	Upright	Stowed	None	N/A	N/A
41	Belted	Forward ⁵	Down	In-use	On	N/A	N/A
42	Belted	Forward ⁵	Down	Stowed	On	N/A	N/A
43	Belted	Forward ⁵	Upright	In-use	On	N/A	N/A
44	Belted	Forward ⁵	Upright	Stowed	On	N/A	N/A
45	Belted	Forward ⁵	Down	In-use	N/A	On	N/A
46	Belted	Forward ⁵	Down	Stowed	N/A	On	N/A
47	Belted	Forward ⁵	Upright	In-use	N/A	On	N/A
48	Belted	Forward ⁵	Upright	Stowed	N/A	On	N/A
49	Unbelted	Forward	Down	In-use	None	N/A	N/A
50	Unbelted	Forward	Down	Stowed	None	N/A	N/A
51	Unbelted	Forward	Upright	In-use	None	N/A	N/A
52	Unbelted	Forward	Upright	Stowed	None	N/A	N/A
53	Unbelted	Forward	Down	In-use	On	N/A	N/A
54	Unbelted	Forward	Down	Stowed	On	N/A	N/A
55	Unbelted	Forward	Upright	In-use	On	N/A	N/A
56	Unbelted	Forward	Upright	Stowed	On	N/A	N/A
57	Unbelted	Forward	Down	In-use	N/A	On	N/A
58	Unbelted	Forward	Down	Stowed	N/A	On	N/A
59	Unbelted	Forward	Upright	In-use	N/A	On	N/A
60	Unbelted	Forward	Upright	Stowed	N/A	On	N/A
61	225	Forward ⁵	Down	In-use	None	N/A	N/A
62	225	Forward ⁵	Down	Stowed	None	N/A	N/A
63	225	Forward ⁵	Upright	In-use	None	N/A	N/A
64	225	Forward ⁵	Upright	Stowed	None	N/A	N/A
65	225	Forward ⁵	Down	In-use	On	N/A	N/A
66	225	Forward ⁵	Down	Stowed	On	N/A	N/A
67	225	Forward ⁵	Upright	In-use	On	N/A	N/A
68	225	Forward ⁵	Upright	Stowed	On	N/A	N/A
69	225	Forward ⁵	Down	In-use	N/A	On	N/A
70	225	Forward ⁵	Down	Stowed	N/A	On	N/A
71	225	Forward ⁵	Upright	In-use	N/A	On	N/A
72	225	Forward ⁵	Upright	Stowed	N/A	On	N/A

- 1 If there is no handle, place N/A in the Suppressed/FAIL column in the rows marked "Upright."
"Down" means the child restraint manufacturer's recommended position or there is no handle.
- 2 If there is no sunshield, place N/A in the Suppressed/FAIL column in the rows marked "In-use."
- 3 Blanket position 1 (S20.1.5(a)): Place a blanket on the child restraint so that the top and side edges of the restraint are covered. The vehicle seat shall not support the blanket.
- 4 Blanket position 2 (S20.1.5(b)): Place a blanket on the child restraint so that it rests on the top of the vehicle's seat back and the forward most (towards the instrument panel) edge of the child restraint.
- 5 Convertible restraints ONLY (S20.2.1.5) (Appendix A, section C)

Record the weight of the blanket. (Cannot be more than 1 kg (2.2 lb).) 0.3 kg
(S20.1.5)

Comments (Record any position readjustments or problems by first stating the row number to which the comment applies.):

The seat belt tension was 99.6 N for all belted positions.

Rows 2, 6, and 10: The seat was 12.7 mm rear of full forward.

Rows 14, 18, and 22: The seat was 82.6 mm rear of foremost.

Rows 15, 16, 19, 20, 23, and 24: The seat was 15.9 mm rear of foremost.

DATA SHEET 25

Test of Reactivation of the Passenger Air Bag System with an
Unbelted 5th Percentile Female Dummy (S20.3, 22.3, S24.3)

NHTSA No. C30103

Test Date: 10/10/02

Laboratory: VRTC

Test Technician(s): C. Case, B. Smith, G. Fout

Seat Position: X Full rearward Mid position Full forward (Use a separate sheet for each of the three fore-aft positions tested.) (S20.3.1, 22.3.1, S24.3.1)

Do NOT use seat belts for these tests.

1. This reactivation test is being performed after the following suppression test:
 - X Suppression Test Using 12-Month-Old CRABI Dummy (S20)
After section 2 of the data sheet (This was performed after all the belted suppression tests on the Britax Handle with Care in the rear, mid, and forward positions.)
 - Suppression Test Using Newborn Infant Dummy (S20)
After section of the data sheet
 - Suppression Test Using 3-Year-Old Dummy and Booster Seats (S22)
After section of the data sheet
 - Suppression Test Using 3-Year-Old Dummy and Forward Facing Convertible Child Restraints (S22)
After section of the data sheet
 - Suppression Test Using an Unbelted 3-Year-Old Dummy (S22)
After section of the data sheet
 - Suppression Test Using 6 Year-Old-Dummy and Booster Seats (S24.2.1)
After section of the data sheet
 - Suppression Test Using 6 Year-Old-Dummy (S24.2.1)
After section of the data sheet
- X 2. Leave the seat in the position used for the suppression test. (Do NOT recline the seat back as it would be for positioning for a crash test.)
- X 3. 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 4. Position the dummy midsagittal plane vertical and coincident with the seating position centerline. (S16.3.3.1.3 or S16.3.3.1.4)
- X 5. Hold down the dummy's thighs and push rearward on the upper torso to maximize the pelvic angle. (S16.3.3.1.5)
- X 6. Set the angle between the legs and the thighs to 120 degrees. (S16.3.3.1.6)
- X 7. 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 seat centerline. (S16.3.3.1.6)
Record Knee Separation 165.1 mm
- X 8. 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 9. Gently rock the upper torso +/- 5 degrees (approximately 51 mm (2 inches)) side to side three times to reduce the friction between the dummy and the seat. (S16.3.3.1.7)
- N/A 10. 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 11. 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 which does not cause dummy contact. (S16.3.3.1.8)
 - X N/A No contact
 - Dummy contact. Clearance set at maximum of 5mm
Measured Clearance mm
 - Dummy Contact. Seat set at nearest detent position.

Seat position ____ detent positions rearward of full forward
(full forward is position zero)

- ☒ 12. Verify the pelvis is not interfering with the seat bight. (S16.3.3.1.9)
- ☒ 13. Verify the dummy abdomen is properly installed. (S16.3.3.1.9)
- ☒ 14. 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 20 degrees, minimize the angular difference. (S16.3.3.1.11)
- ☒ 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. 18.5 degrees
- ☒ 15. Check the dummy for contact with the interior after completing adjustments. (S16.3.3.1.12)
- ☒ No contact.
- ☐ Dummy in contact with interior.
- ☐ Seat moved Aft ____ mm from the previous position.
- ☐ Seat moved Aft ____ detent positions from the previous position.
- ☒ 16. Foot positioning. (Indicate final position achieved) (S16.3.3.2)
- ☐ 16.1 Place feet flat on the toe board. OR
- ☒ 16.2 If the foot will not 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
- ☐ 16.3 If the heels do not touch the floor pan, set the legs to vertical and set the feet parallel to the floor pan
- ☒ 17. Passenger arm/hand positioning. (S16.3.3.3)
- ☒ 17.1 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)
- ☒ 17.2 Place the palms of the dummy in contact with the outer part of the thighs (S16.3.3.3.2)
- ☒ 17.3 Place the little fingers in contact with the seat cushion. (S16.3.3.3.3)
- ☒ 18. Start the vehicle engine or place the ignition in the "on" position, whichever will turn on the suppression system, and close all vehicle doors. (S22.2.1.7) Wait 10 seconds, and then check whether the air bag is suppressed. (S22.2.1.8)
- ☐ Air Bag Suppressed – **FAIL**
- ☒ Air Bag Not Suppressed – Pass
- ☒ 19. Return the ignition switch to the "off" position.

C. Case, B. Smith, G. Fout
I certify that I have read and performed each instruction.

10/10/02
Date

RESULTS FROM DATA SHEET 14

Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20)

NHTSA No. C30103

Test Date: 10/10/02

Laboratory: VRIC

Test Technician(s): C. Case, B. Smith, G. Fout

Child Restraint Name, Model, Date of Manufacture: Evenflo First Choice

Base: ☐ On ☐ Off ☒ N/A-Restraint does not have a removable base

Seat Position: ☐ Rearmost, mid-height ☐ Mid-position, mid-height ☒ Foremost, mid-height

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
1	Belted	Rear	Down	In-use	None	N/A	N/A
2	Belted	Rear	Down	Stowed	None	N/A	Suppressed
3	Belted	Rear	Upright	In-use	None	N/A	N/A
4	Belted	Rear	Upright	Stowed	None	N/A	Suppressed
5	Belted	Rear	Down	In-use	On	N/A	N/A
6	Belted	Rear	Down	Stowed	On	N/A	Suppressed
7	Belted	Rear	Upright	In-use	On	N/A	N/A
8	Belted	Rear	Upright	Stowed	On	N/A	Suppressed
9	Belted	Rear	Down	In-use	N/A	On	N/A
10	Belted	Rear	Down	Stowed	N/A	On	Suppressed
11	Belted	Rear	Upright	In-use	N/A	On	N/A
12	Belted	Rear	Upright	Stowed	N/A	On	Suppressed
13	Unbelted	Rear	Down	In-use	None	N/A	N/A
14	Unbelted	Rear	Down	Stowed	None	N/A	Suppressed
15	Unbelted	Rear	Upright	In-use	None	N/A	N/A
16	Unbelted	Rear	Upright	Stowed	None	N/A	Suppressed
17	Unbelted	Rear	Down	In-use	On	N/A	N/A
18	Unbelted	Rear	Down	Stowed	On	N/A	Suppressed
19	Unbelted	Rear	Upright	In-use	On	N/A	N/A
20	Unbelted	Rear	Upright	Stowed	On	N/A	Suppressed
21	Unbelted	Rear	Down	In-use	N/A	On	N/A
22	Unbelted	Rear	Down	Stowed	N/A	On	Suppressed
23	Unbelted	Rear	Upright	In-use	N/A	On	N/A
24	Unbelted	Rear	Upright	Stowed	N/A	On	Suppressed
25	225	Rear	Down	In-use	None	N/A	N/A
26	225	Rear	Down	Stowed	None	N/A	N/A
27	225	Rear	Upright	In-use	None	N/A	N/A
28	225	Rear	Upright	Stowed	None	N/A	N/A
29	225	Rear	Down	In-use	On	N/A	N/A
30	225	Rear	Down	Stowed	On	N/A	N/A
31	225	Rear	Upright	In-use	On	N/A	N/A
32	225	Rear	Upright	Stowed	On	N/A	N/A
33	225	Rear	Down	In-use	N/A	On	N/A
34	225	Rear	Down	Stowed	N/A	On	N/A
35	225	Rear	Upright	In-use	N/A	On	N/A
36	225	Rear	Upright	Stowed	N/A	On	N/A

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
37	Belted	Forward ⁵	Down	In-use	None	N/A	N/A
38	Belted	Forward ⁵	Down	Stowed	None	N/A	N/A
39	Belted	Forward ⁵	Upright	In-use	None	N/A	N/A
40	Belted	Forward ⁵	Upright	Stowed	None	N/A	N/A
41	Belted	Forward ⁵	Down	In-use	On	N/A	N/A
42	Belted	Forward ⁵	Down	Stowed	On	N/A	N/A
43	Belted	Forward ⁵	Upright	In-use	On	N/A	N/A
44	Belted	Forward ⁵	Upright	Stowed	On	N/A	N/A
45	Belted	Forward ⁵	Down	In-use	N/A	On	N/A
46	Belted	Forward ⁵	Down	Stowed	N/A	On	N/A
47	Belted	Forward ⁵	Upright	In-use	N/A	On	N/A
48	Belted	Forward ⁵	Upright	Stowed	N/A	On	N/A
49	Unbelted	Forward	Down	In-use	None	N/A	N/A
50	Unbelted	Forward	Down	Stowed	None	N/A	N/A
51	Unbelted	Forward	Upright	In-use	None	N/A	N/A
52	Unbelted	Forward	Upright	Stowed	None	N/A	N/A
53	Unbelted	Forward	Down	In-use	On	N/A	N/A
54	Unbelted	Forward	Down	Stowed	On	N/A	N/A
55	Unbelted	Forward	Upright	In-use	On	N/A	N/A
56	Unbelted	Forward	Upright	Stowed	On	N/A	N/A
57	Unbelted	Forward	Down	In-use	N/A	On	N/A
58	Unbelted	Forward	Down	Stowed	N/A	On	N/A
59	Unbelted	Forward	Upright	In-use	N/A	On	N/A
60	Unbelted	Forward	Upright	Stowed	N/A	On	N/A
61	225	Forward ⁵	Down	In-use	None	N/A	N/A
62	225	Forward ⁵	Down	Stowed	None	N/A	N/A
63	225	Forward ⁵	Upright	In-use	None	N/A	N/A
64	225	Forward ⁵	Upright	Stowed	None	N/A	N/A
65	225	Forward ⁵	Down	In-use	On	N/A	N/A
66	225	Forward ⁵	Down	Stowed	On	N/A	N/A
67	225	Forward ⁵	Upright	In-use	On	N/A	N/A
68	225	Forward ⁵	Upright	Stowed	On	N/A	N/A
69	225	Forward ⁵	Down	In-use	N/A	On	N/A
70	225	Forward ⁵	Down	Stowed	N/A	On	N/A
71	225	Forward ⁵	Upright	In-use	N/A	On	N/A
72	225	Forward ⁵	Upright	Stowed	N/A	On	N/A

- 1 If there is no handle, place N/A in the Suppressed/FAIL column in the rows marked "Upright."
"Down" means the child restraint manufacturer's recommended position or there is no handle.
- 2 If there is no sunshield, place N/A in the Suppressed/FAIL column in the rows marked "In-use."
- 3 Blanket position 1 (S20.1.5(a)): Place a blanket on the child restraint so that the top and side edges of the restraint are covered. The vehicle seat shall not support the blanket.
- 4 Blanket position 2 (S20.1.5(b)): Place a blanket on the child restraint so that it rests on the top of the vehicle's seat back and the forward most (towards the instrument panel) edge of the child restraint.
- 5 Convertible restraints ONLY (S20.2.1.5) (Appendix A, section C)

Record the weight of the blanket. (Cannot be more than 1 kg (2.2 lb).) 0.3 kg
(S20.1.5)

Comments (Record any position readjustments or problems by first stating the row number to which the comment applies.):

The seat belt tension was 79.1 N for all belted positions.

Rows 2, 6, & 10: The seat was 117.4 mm rear of full forward.

Rows 14, 18, & 22: The seat was 1180.9 mm back from full forward.

Rows 16, 20, & 24: The seat was 104.7 mm back from full forward.

RESULTS FROM DATA SHEET 14

Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20)

NHTSA No. C30103

Test Date: 10/10/02

Laboratory: VRTC

Test Technician(s): C. Case, B. Smith, G. Fout

Child Restraint Name, Model, Date of Manufacture: Evenflo First Choice

Base: On Off X N/A-Restraint does not have a removable base

Seat Position: Rearmost, mid-height X Mid-position, mid-height Foremost, mid-height

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Hand e ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
1	Belted	Rear	Down	In-use	None	N/A	N/A
2	Belted	Rear	Down	Stowed	None	N/A	Suppressed
3	Belted	Rear	Upright	In-use	None	N/A	N/A
4	Belted	Rear	Upright	Stowed	None	N/A	Suppressed
5	Belted	Rear	Down	In-use	On	N/A	N/A
6	Belted	Rear	Down	Stowed	On	N/A	Suppressed
7	Belted	Rear	Upright	In-use	On	N/A	N/A
8	Belted	Rear	Upright	Stowed	On	N/A	Suppressed
9	Belted	Rear	Down	In-use	N/A	On	N/A
10	Belted	Rear	Down	Stowed	N/A	On	Suppressed
11	Belted	Rear	Upright	In-use	N/A	On	N/A
12	Belted	Rear	Upright	Stowed	N/A	On	Suppressed
13	Unbelted	Rear	Down	In-use	None	N/A	N/A
14	Unbelted	Rear	Down	Stowed	None	N/A	Suppressed
15	Unbelted	Rear	Upright	In-use	None	N/A	N/A
16	Unbelted	Rear	Upright	Stowed	None	N/A	Suppressed
17	Unbelted	Rear	Down	In-use	On	N/A	N/A
18	Unbelted	Rear	Down	Stowed	On	N/A	Suppressed
19	Unbelted	Rear	Upright	In-use	On	N/A	N/A
20	Unbelted	Rear	Upright	Stowed	On	N/A	Suppressed
21	Unbelted	Rear	Down	In-use	N/A	On	N/A
22	Unbelted	Rear	Down	Stowed	N/A	On	Suppressed
23	Unbelted	Rear	Upright	In-use	N/A	On	N/A
24	Unbelted	Rear	Upright	Stowed	N/A	On	Suppressed
25	225	Rear	Down	In-use	None	N/A	N/A
26	225	Rear	Down	Stowed	None	N/A	N/A
27	225	Rear	Upright	In-use	None	N/A	N/A
28	225	Rear	Upright	Stowed	None	N/A	N/A
29	225	Rear	Down	In-use	On	N/A	N/A
30	225	Rear	Down	Stowed	On	N/A	N/A
31	225	Rear	Upright	In-use	On	N/A	N/A
32	225	Rear	Upright	Stowed	On	N/A	N/A
33	225	Rear	Down	In-use	N/A	On	N/A
34	225	Rear	Down	Stowed	N/A	On	N/A
35	225	Rear	Upright	In-use	N/A	On	N/A
36	225	Rear	Upright	Stowed	N/A	On	N/A

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
37	Belted	Forward ⁵	Down	In-use	None	N/A	N/A
38	Belted	Forward ⁵	Down	Stowed	None	N/A	N/A
39	Belted	Forward ⁵	Upright	In-use	None	N/A	N/A
40	Belted	Forward ⁵	Upright	Stowed	None	N/A	N/A
41	Belted	Forward ⁵	Down	In-use	On	N/A	N/A
42	Belted	Forward ⁵	Down	Stowed	On	N/A	N/A
43	Belted	Forward ⁵	Upright	In-use	On	N/A	N/A
44	Belted	Forward ⁵	Upright	Stowed	On	N/A	N/A
45	Belted	Forward ⁵	Down	In-use	N/A	On	N/A
46	Belted	Forward ⁵	Down	Stowed	N/A	On	N/A
47	Belted	Forward ⁵	Upright	In-use	N/A	On	N/A
48	Belted	Forward ⁵	Upright	Stowed	N/A	On	N/A
49	Unbelted	Forward	Down	In-use	None	N/A	N/A
50	Unbelted	Forward	Down	Stowed	None	N/A	N/A
51	Unbelted	Forward	Upright	In-use	None	N/A	N/A
52	Unbelted	Forward	Upright	Stowed	None	N/A	N/A
53	Unbelted	Forward	Down	In-use	On	N/A	N/A
54	Unbelted	Forward	Down	Stowed	On	N/A	N/A
55	Unbelted	Forward	Upright	In-use	On	N/A	N/A
56	Unbelted	Forward	Upright	Stowed	On	N/A	N/A
57	Unbelted	Forward	Down	In-use	N/A	On	N/A
58	Unbelted	Forward	Down	Stowed	N/A	On	N/A
59	Unbelted	Forward	Upright	In-use	N/A	On	N/A
60	Unbelted	Forward	Upright	Stowed	N/A	On	N/A
61	225	Forward ⁵	Down	In-use	None	N/A	N/A
62	225	Forward ⁵	Down	Stowed	None	N/A	N/A
63	225	Forward ⁵	Upright	In-use	None	N/A	N/A
64	225	Forward ⁵	Upright	Stowed	None	N/A	N/A
65	225	Forward ⁵	Down	In-use	On	N/A	N/A
66	225	Forward ⁵	Down	Stowed	On	N/A	N/A
67	225	Forward ⁵	Upright	In-use	On	N/A	N/A
68	225	Forward ⁵	Upright	Stowed	On	N/A	N/A
69	225	Forward ⁵	Down	In-use	N/A	On	N/A
70	225	Forward ⁵	Down	Stowed	N/A	On	N/A
71	225	Forward ⁵	Upright	In-use	N/A	On	N/A
72	225	Forward ⁵	Upright	Stowed	N/A	On	N/A

- 1 If there is no handle, place N/A in the Suppressed/FAIL column in the rows marked "Upright."
"Down" means the child restraint manufacturer's recommended position or there is no handle.
- 2 If there is no sunshield, place N/A in the Suppressed/FAIL column in the rows marked "In-use."
- 3 Blanket position 1 (S20.1.5(a)): Place a blanket on the child restraint so that the top and side edges of the restraint are covered. The vehicle seat shall not support the blanket.
- 4 Blanket position 2 (S20.1.5(b)): Place a blanket on the child restraint so that it rests on the top of the vehicle's seat back and the forward most (towards the instrument panel) edge of the child restraint.
- 5 Convertible restraints ONLY (S20.2.1.5) (Appendix A, section C)

Record the **weight** of the blanket. (Cannot be more than **1 kg** (2.2 lb).) 0.3 kg
(S20.1.5)

Comments (Record any position readjustments or problems by first stating the row number to **which** the comment applies.):

The seat belt tension was 79.1 N for all belted positions.

Rows 2, 6, 10, 14, 16, 18, 20, 22, and 24 were the same as foremost.

RESULTS FROM DATA SHEET 14

Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20)

NHTSA No. C30103

Test Date: 10/10/02

Laboratory: VRTC

Test Technician(s): C. Case, B. Smith, G. Fout

Child Restraint Name, Model, Date of Manufacture: Evenflo First Choice

Base: On Off X N/A-Restraint does not have a removable base

Seat Position: X Rearmost, mid-height Mid-position, mid-height Foremost, mid-height

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
1	Belted	Rear	Down	In-use	None	N/A	N/A
2	Belted	Rear	Down	Stowed	None	N/A	Suppressed
3	Belted	Rear	Upright	In-use	None	N/A	N/A
4	Belted	Rear	Upright	Stowed	None	N/A	Suppressed
5	Belted	Rear	Down	In-use	On	N/A	N/A
6	Belted	Rear	Down	Stowed	On	N/A	Suppressed
7	Belted	Rear	Upright	In-use	On	N/A	N/A
8	Belted	Rear	Upright	Stowed	On	N/A	Suppressed
9	Belted	Rear	Down	In-use	N/A	On	N/A
10	Belted	Rear	Down	Stowed	N/A	On	Suppressed
11	Belted	Rear	Upright	In-use	N/A	On	N/A
12	Belted	Rear	Upright	Stowed	N/A	On	Suppressed
13	Unbelted	Rear	Down	In-use	None	N/A	N/A
14	Unbelted	Rear	Down	Stowed	None	N/A	Suppressed
15	Unbelted	Rear	Upright	In-use	None	N/A	N/A
16	Unbelted	Rear	Upright	Stowed	None	N/A	Suppressed
17	Unbelted	Rear	Down	In-use	On	N/A	N/A
18	Unbelted	Rear	Down	Stowed	On	N/A	Suppressed
19	Unbelted	Rear	Upright	In-use	On	N/A	N/A
20	Unbelted	Rear	Upright	Stowed	On	N/A	Suppressed
21	Unbelted	Rear	Down	In-use	N/A	On	N/A
22	Unbelted	Rear	Down	Stowed	N/A	On	Suppressed
23	Unbelted	Rear	Upright	In-use	N/A	On	N/A
24	Unbelted	Rear	Upright	Stowed	N/A	On	Suppressed
25	225	Rear	Down	In-use	None	N/A	N/A
26	225	Rear	Down	Stowed	None	N/A	N/A
27	225	Rear	Upright	In-use	None	N/A	N/A
28	225	Rear	Upright	Stowed	None	N/A	N/A
29	225	Rear	Down	In-use	On	N/A	N/A
30	225	Rear	Down	Stowed	On	N/A	N/A
31	225	Rear	Upright	In-use	On	N/A	N/A
32	225	Rear	Upright	Stowed	On	N/A	N/A
33	225	Rear	Down	In-use	N/A	On	N/A
34	225	Rear	Down	Stowed	N/A	On	N/A
35	225	Rear	Upright	In-use	N/A	On	N/A
36	225	Rear	Upright	Stowed	N/A	On	N/A

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
37	Belted	Forward ⁵	Down	In-use	None	N/A	N/A
38	Belted	Forward ⁵	Down	Stowed	None	N/A	N/A
39	Belted	Forward ⁵	Upright	In-use	None	N/A	N/A
40	Belted	Forward ⁵	Upright	Stowed	None	N/A	N/A
41	Belted	Forward ⁵	Down	In-use	On	N/A	N/A
42	Belted	Forward ⁵	Down	Stowed	On	N/A	N/A
43	Belted	Forward ⁵	Upright	In-use	On	N/A	N/A
44	Belted	Forward ⁵	Upright	Stowed	On	N/A	N/A
45	Belted	Forward ⁵	Down	In-use	N/A	On	N/A
46	Belted	Forward ⁵	Down	Stowed	N/A	On	N/A
47	Belted	Forward ⁵	Upright	In-use	N/A	On	N/A
48	Belted	Forward ⁵	Upright	Stowed	N/A	On	N/A
49	Unbelted	Forward	Down	In-use	None	N/A	N/A
50	Unbelted	Forward	Down	Stowed	None	N/A	N/A
51	Unbelted	Forward	Upright	In-use	None	N/A	N/A
52	Unbelted	Forward	Upright	Stowed	None	N/A	N/A
53	Unbelted	Forward	Down	In-use	On	N/A	N/A
54	Unbelted	Forward	Down	Stowed	On	N/A	N/A
55	Unbelted	Forward	Upright	In-use	On	N/A	N/A
56	Unbelted	Forward	Upright	Stowed	On	N/A	N/A
57	Unbelted	Forward	Down	In-use	N/A	On	N/A
58	Unbelted	Forward	Down	Stowed	N/A	On	N/A
59	Unbelted	Forward	Upright	In-use	N/A	On	N/A
60	Unbelted	Forward	Upright	Stowed	N/A	On	N/A
61	225	Forward ⁵	Down	In-use	None	N/A	N/A
62	225	Forward ⁵	Down	Stowed	None	N/A	N/A
63	225	Forward ⁵	Upright	In-use	None	N/A	N/A
64	225	Forward ⁵	Upright	Stowed	None	N/A	N/A
65	225	Forward ⁵	Down	In-use	On	N/A	N/A
66	225	Forward ⁵	Down	Stowed	On	N/A	N/A
67	225	Forward ⁵	Upright	In-use	On	N/A	N/A
68	225	Forward ⁵	Upright	Stowed	On	N/A	N/A
69	225	Forward ⁵	Down	In-use	N/A	On	N/A
70	225	Forward ⁵	Down	Stowed	N/A	On	N/A
71	225	Forward ⁵	Upright	In-use	N/A	On	N/A
72	225	Forward ⁵	Upright	Stowed	N/A	On	N/A

- 1 If there is no handle, place N/A in the Suppressed/FAIL column in the rows marked "Upright."
"Down" means the child restraint manufacturer's recommended position or there is no handle.
- 2 If there is no sunshield, place N/A in the Suppressed/FAIL column in the rows marked "In-use."
- 3 Blanket position 1 (S20.1.5(a)): Place a blanket on the child restraint so that the top and side edges of the restraint are covered. The vehicle seat shall not support the blanket.
- 4 Blanket position 2 (S20.1.5(b)): Place a blanket on the child restraint so that it rests on the top of the vehicle's seat back and the forward most (towards the instrument panel) edge of the child restraint.
- 5 Convertible restraints ONLY (S20.2.1.5) (Appendix A, section C)

Record the weight of the blanket. (Cannot be more than 1 kg (2.2 lb).) 2.3 kg
(S20.1.5)
Comments (Record any position readjustments or problems by first stating the row
number to which the comment applies.):
The seat belt tension was 79.1 N for all belted positions.

DATA SHEET 25

Test of Reactivation of the Passenger Air Bag System with an
Unbelted 5th Percentile Female Dummy (S20.3, 22.3, S24.3)

NHTSA No. C30103

Test Date: 10/11/02

Laboratory: VRTC

Test Technician(s): C. Case, B. Smith, G. Fout

Seat Position: ☒ Full rearward ☐ Mid position ☐ Full forward (Use a separate sheet for each of the three fore-aft positions tested.) (S20.3.1, 22.3.1 S24.3.1)

Do NOT use seat belts for these tests.

1. This reactivation test is being performed after the following suppression test:
 - ☒ Suppression Test Using 12-Month-Old CRABI Dummy (S20)
After section 2 of the data sheet (This was performed after all the belted suppression tests on the Britax Handle with Care in the rear, mid, and forward positions.)
 - ☐ Suppression Test Using Newborn Infant Dummy (S20)
After section of the data sheet
 - ☐ Suppression Test Using 3-Year-Old Dummy and Booster Seats (S22)
After section of the data sheet
 - ☐ Suppression Test Using 3-Year-Old Dummy and Forward Facing Convertible Child Restraints (S22)
After section of the data sheet
 - ☐ Suppression Test Using an Unbelted 3-Year-Old Dummy (S22)
After section of the data sheet
 - ☐ Suppression Test Using 6 Year-Old-Dummy and Booster Seats (S24.2.1)
After section of the data sheet
 - ☐ Suppression Test Using 6 Year-Old-Dummy (S24.2.1)
After section of the data sheet
- ☒ 2. Leave the seat in the position used for the suppression test. (Do NOT recline the seat back as it would be for positioning for a crash test.)
- ☒ 3. 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)
- ☒ 4. Position the dummy midsagittal plane vertical and coincident with the seating position centerline. (S16.3.3.1.3 or S16.3.3.1.4)
- ☒ 5. Hold down the dummy's thighs and push rearward on the upper torso to maximize the pelvic angle. (S16.3.3.1.5)
- ☒ 6. Set the angle between the legs and the thighs to 120 degrees. (S16.3.3.1.6)
- ☒ 7. 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 seat centerline. (S16.3.3.1.6)
Record Knee Separation 167.6 mm
- ☒ 8. 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.
 - ☒ Calves contacted seat cushion.
- ☒ 9. Gently rock the upper torso +/- 5 degrees (approximately 51 mm (2 inches)) side to side three times to reduce the friction between the dummy and the seat. (S16.3.3.1.7)
- ☒ 10. 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)
- ☒ 11. 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 which does not cause dummy contact. (S16.3.3.1.8)
 - ☒ N/A No contact
 - ☐ Dummy contact. Clearance set at maximum of 5mm
Measured Clearance mm
 - ☐ Dummy Contact. Seat set at nearest detent position.

- Seat position ____ detent positions rearward of full forward
(full forward is position zero)
- ☒ 12. Verify the pelvis is not interfering with the seat belt. (S16.3.3.1.9)
- ☒ 13. Verify the dummy abdomen is properly installed. (S16.3.3.1.9)
- ☒ 14. 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 20 degrees, minimize the angular difference. (S16.3.3.1.11)
- ____ 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. 20.9 degrees
- ☒ 15. Check the dummy for contact with the interior after completing adjustments. (S16.3.3.1.12)
- ☒ No contact.
- ____ Dummy in contact with interior.
- ____ Seat moved Aft ____ mm from the previous position.
- ____ Seat moved Aft ____ detent positions from the previous position.
- ☒ 16. Foot positioning. (Indicate final position achieved) (S16.3.3.2)
- ____ 16.1 Place feet flat on the toe board. OR
- ☒ 16.2 If the feet will not 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
- ____ 16.3 If the heels do not touch the floor pan, set the legs to vertical and set the feet parallel to the floor pan
- ☒ 17. Passenger arm/hand positioning. (S16.3.3.3)
- ☒ 17.1 Place the dummy's upper arms adjacent to the torso with the arm centerlines as close to a vertical longitudinal plane as possible. (S16.3.3.3.1)
- ☒ 17.2 Place the palms of the dummy in contact with the outer part of the thighs (S16.3.3.3.2)
- ☒ 17.3 Place the little fingers in contact with the seat cushion. (S16.3.3.3.3)
- ☒ 18. Start the vehicle engine or place the ignition in the "on" position, whichever will turn on the suppression system, and close all vehicle doors. (S22.2.1.7) Wait 10 seconds, and then check whether the air bag is suppressed. (S22.2.1.8)
- ____ Air Bag Suppressed – FAIL
- ☒ Air Bag Not Suppressed – Pass
- ☒ 19. Return the ignition switch to the "off" position.

C. Case, B. Smith, G. Fout
I certify that I have read and performed each instruction.

10/11/02
Date

RESULTS FROM DATA SHEET 14

Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20)

NHTSA No. C30103

Test Date: 10/11/02

Laboratory: VRTC

Test Technician(s): C. Case, B. Smith, G. Fout

Child Restraint Name, Model, Date of Manufacture: Graco Snugg Ride (Infant 8457)

Base: X On Off N/A-Restraint does not have a removable base

Seat Position: X Rearmost, mid-height Mid-position, mid-height Foremost, mid-height

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ³ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
1	Belted	Rear	Down	In-use	None	N/A	Suppressed
2	Belted	Rear	Down	Stowed	None	N/A	Suppressed
3	Belted	Rear	Upright	In-use	None	N/A	Suppressed
4	Belted	Rear	Upright	Stowed	None	N/A	Suppressed
5	Belted	Rear	Down	In-use	On	N/A	Suppressed
6	Belted	Rear	Down	Stowed	On	N/A	Suppressed
7	Belted	Rear	Upright	In-use	On	N/A	Suppressed
8	Belted	Rear	Upright	Stowed	On	N/A	Suppressed
9	Belted	Rear	Down	In-use	N/A	On	Suppressed
10	Belted	Rear	Down	Stowed	N/A	On	Suppressed
11	Belted	Rear	Upright	In-use	N/A	On	Suppressed
12	Belted	Rear	Upright	Stowed	N/A	On	Suppressed
13	Unbelted	Rear	Down	In-use	None	N/A	Not done
14	Unbelted	Rear	Down	Stowed	None	N/A	Not done
15	Unbelted	Rear	Upright	In-use	None	N/A	Not done
16	Unbelted	Rear	Upright	Stowed	None	N/A	Suppressed
17	Unbelted	Rear	Down	In-use	On	N/A	Not done
18	Unbelted	Rear	Down	Stowed	On	N/A	Not done
19	Unbelted	Rear	Upright	In-use	On	N/A	Not done
20	Unbelted	Rear	Upright	Stowed	On	N/A	Not done
21	Unbelted	Rear	Down	In-use	N/A	On	Not done
22	Unbelted	Rear	Down	Stowed	N/A	On	Not done
23	Unbelted	Rear	Upright	In-use	N/A	On	Not done
24	Unbelted	Rear	Upright	Stowed	N/A	On	Not done
25	225	Rear	Down	In-use	None	N/A	N/A
26	225	Rear	Down	Stowed	None	N/A	N/A
27	225	Rear	Upright	In-use	None	N/A	N/A
28	225	Rear	Upright	Stowed	None	N/A	N/A
29	225	Rear	Down	In-use	On	N/A	N/A
30	225	Rear	Down	Stowed	On	N/A	N/A
31	225	Rear	Upright	In-use	On	N/A	N/A
32	225	Rear	Upright	Stowed	On	N/A	N/A
33	225	Rear	Down	In-use	N/A	On	N/A
34	225	Rear	Down	Stowed	N/A	On	N/A
35	225	Rear	Upright	In-use	N/A	On	N/A
36	225	Rear	Upright	Stowed	N/A	On	N/A

	Belted, Unbelted, FMVSS 225	Rear Facing, Forward Facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
37	Belted	Forward ⁵	Down	In-use	None	N/A	N/A
38	Belted	Forward ⁵	Down	Stowed	None	N/A	N/A
39	Belted	Forward ⁵	Upright	In-use	None	N/A	N/A
40	Belted	Forward ⁵	Upright	Stowed	None	N/A	N/A
41	Belted	Forward ⁵	Down	In-use	On	N/A	N/A
42	Belted	Forward ⁵	Down	Stowed	On	N/A	N/A
43	Belted	Forward ⁵	Upright	In-use	On	N/A	N/A
44	Belted	Forward ⁵	Upright	Stowed	On	N/A	N/A
45	Belted	Forward ⁵	Down	In-use	N/A	On	N/A
46	Belted	Forward ⁵	Down	Stowed	N/A	On	N/A
47	Belted	Forward ⁵	Upright	In-use	N/A	On	N/A
48	Belted	Forward ⁵	Upright	Stowed	N/A	On	N/A
49	Unbelted	Forward	Down	In-use	None	N/A	N/A
50	Unbelted	Forward	Down	Stowed	None	N/A	N/A
51	Unbelted	Forward	Upright	In-use	None	N/A	N/A
52	Unbelted	Forward	Upright	Stowed	None	N/A	N/A
53	Unbelted	Forward	Down	In-use	On	N/A	N/A
54	Unbelted	Forward	Down	Stowed	On	N/A	N/A
55	Unbelted	Forward	Upright	In-use	On	N/A	N/A
56	Unbelted	Forward	Upright	Stowed	On	N/A	N/A
57	Unbelted	Forward	Down	In-use	N/A	On	N/A
58	Unbelted	Forward	Down	Stowed	N/A	On	N/A
59	Unbelted	Forward	Upright	In-use	N/A	On	N/A
60	Unbelted	Forward	Upright	Stowed	N/A	On	N/A
61	225	Forward ⁵	Down	In-use	None	N/A	N/A
62	225	Forward ⁵	Down	Stowed	None	N/A	N/A
63	225	Forward ⁵	Upright	In-use	None	N/A	N/A
64	225	Forward ⁵	Upright	Stowed	None	N/A	N/A
65	225	Forward ⁵	Down	In-use	On	N/A	N/A
66	225	Forward ⁵	Down	Stowed	On	N/A	N/A
67	225	Forward ⁵	Upright	In-use	On	N/A	N/A
68	225	Forward ⁵	Upright	Stowed	On	N/A	N/A
69	225	Forward ⁵	Down	In-use	N/A	On	N/A
70	225	Forward ⁵	Down	Stowed	N/A	On	N/A
71	225	Forward ⁵	Upright	In-use	N/A	On	N/A
72	225	Forward ⁵	Upright	Stowed	N/A	On	N/A

- 1 If there is no handle, place N/A in the Suppressed/FAIL column in the rows marked "Upright."
"Down" means the child restraint manufacturer's recommended position or there is no handle.
- 2 If there is no sunshield, place N/A in the Suppressed/FAIL column in the rows marked "In-use."
- 3 Blanket position 1 (S20.1.5(a)): Place a blanket on the child restraint so that the top and side edges of the restraint are covered. The vehicle seat shall not support the blanket.
- 4 Blanket position 2 (S20.1.5(b)): Place a blanket on the child restraint so that it rests on the top of the vehicle's seat back and the forward most (towards the instrument panel) edge of the child restraint.
- 5 Convertible restraints ONLY (S20.2.1.5) (Appendix A, section C)

Record the weight of the blanket. (Cannot be more than 1 kg (2.2 lb).) _____ 0.3 kg
(S20.1.5)

Comments (Record any position readjustments or problems by first stating the row number to which the comment applies.):

The seat belt tension was 132.1 N for all belted positions.

The handle, blanket, and sunshield were not used after row 12 because they did not affect the performance of the suppression system.

RESULTS FROM DATA SHEET 14

Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20)

NHTSA No. C30103

Test Date: 10/11/02

Laboratory: VRTC

Test Technician(s): C. Case, B. Smith, G. Fout

Child Restraint Name, Model, Date of Manufacture: Graco Snugg Ride (Infant 5457)

Base: ☒ On ☐ Off ☐ N/A-Restraint does not have a removable base

Seat Position: ☐ Rearmost, mid-height ☒ Mid-position, mid-height ☐ Foremost, mid height

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
1	Belted	Rear	Down	In-use	None	N/A	Suppressed
2	Belted	Rear	Down	Stowed	None	N/A	Suppressed
3	Belted	Rear	Upright	In-use	None	N/A	Suppressed
4	Belted	Rear	Upright	Stowed	None	N/A	Suppressed
5	Belted	Rear	Down	In-use	On	N/A	Suppressed
6	Belted	Rear	Down	Stowed	On	N/A	Suppressed
7	Belted	Rear	Upright	In-use	On	N/A	Suppressed
8	Belted	Rear	Upright	Stowed	On	N/A	Suppressed
9	Belted	Rear	Down	In-use	N/A	On	Suppressed
10	Belted	Rear	Down	Stowed	N/A	On	Suppressed
11	Belted	Rear	Upright	In-use	N/A	On	Suppressed
12	Belted	Rear	Upright	Stowed	N/A	On	Suppressed
13	Unbelted	Rear	Down	In-use	None	N/A	Not done
14	Unbelted	Rear	Down	Stowed	None	N/A	Not done
15	Unbelted	Rear	Upright	In-use	None	N/A	Not done
16	Unbelted	Rear	Upright	Stowed	None	N/A	Suppressed
17	Unbelted	Rear	Down	In-use	On	N/A	Not done
18	Unbelted	Rear	Down	Stowed	On	N/A	Not done
19	Unbelted	Rear	Upright	In-use	On	N/A	Not done
20	Unbelted	Rear	Upright	Stowed	On	N/A	Not done
21	Unbelted	Rear	Down	In-use	N/A	On	Not done
22	Unbelted	Rear	Down	Stowed	N/A	On	Not done
23	Unbelted	Rear	Upright	In-use	N/A	On	Not done
24	Unbelted	Rear	Upright	Stowed	N/A	On	Not done
25	225	Rear	Down	In-use	None	N/A	N/A
26	225	Rear	Down	Stowed	None	N/A	N/A
27	225	Rear	Upright	In-use	None	N/A	N/A
28	225	Rear	Upright	Stowed	None	N/A	N/A
29	225	Rear	Down	In-use	On	N/A	N/A
30	225	Rear	Down	Stowed	On	N/A	N/A
31	225	Rear	Upright	In-use	On	N/A	N/A
32	225	Rear	Upright	Stowed	On	N/A	N/A
33	225	Rear	Down	In-use	N/A	On	N/A
34	225	Rear	Down	Stowed	N/A	On	N/A
35	225	Rear	Upright	In-use	N/A	On	N/A
36	225	Rear	Upright	Stowed	N/A	On	N/A

	Bolted, Unbolted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
37	Bolted	Forward ⁵	Down	In-use	None	N/A	N/A
38	Bolted	Forward ⁵	Down	Stowed	None	N/A	N/A
39	Bolted	Forward ⁵	Upright	In-use	None	N/A	N/A
40	Bolted	Forward ⁵	Upright	Stowed	None	N/A	N/A
41	Bolted	Forward ⁵	Down	In-use	On	N/A	N/A
42	Bolted	Forward ⁵	Down	Stowed	On	N/A	N/A
43	Bolted	Forward ⁵	Upright	In-use	On	N/A	N/A
44	Bolted	Forward ⁵	Upright	Stowed	On	N/A	N/A
45	Bolted	Forward ⁵	Down	In-use	N/A	On	N/A
46	Bolted	Forward ⁵	Down	Stowed	N/A	On	N/A
47	Bolted	Forward ⁵	Upright	In-use	N/A	On	N/A
48	Bolted	Forward ⁵	Upright	Stowed	N/A	On	N/A
49	Unbolted	Forward	Down	In-use	None	N/A	N/A
50	Unbolted	Forward	Down	Stowed	None	N/A	N/A
51	Unbolted	Forward	Upright	In-use	None	N/A	N/A
52	Unbolted	Forward	Upright	Stowed	None	N/A	N/A
53	Unbolted	Forward	Down	In-use	On	N/A	N/A
54	Unbolted	Forward	Down	Stowed	On	N/A	N/A
55	Unbolted	Forward	Upright	In-use	On	N/A	N/A
56	Unbolted	Forward	Upright	Stowed	On	N/A	N/A
57	Unbolted	Forward	Down	In-use	N/A	On	N/A
58	Unbolted	Forward	Down	Stowed	N/A	On	N/A
59	Unbolted	Forward	Upright	In-use	N/A	On	N/A
60	Unbolted	Forward	Upright	Stowed	N/A	On	N/A
61	225	Forward ⁵	Down	In-use	None	N/A	N/A
62	225	Forward ⁵	Down	Stowed	None	N/A	N/A
63	225	Forward ⁵	Upright	In-use	None	N/A	N/A
64	225	Forward ⁵	Upright	Stowed	None	N/A	N/A
65	225	Forward ⁵	Down	In-use	On	N/A	N/A
66	225	Forward ⁵	Down	Stowed	On	N/A	N/A
67	225	Forward ⁵	Upright	In-use	On	N/A	N/A
68	225	Forward ⁵	Upright	Stowed	On	N/A	N/A
69	225	Forward ⁵	Down	In-use	N/A	On	N/A
70	225	Forward ⁵	Down	Stowed	N/A	On	N/A
71	225	Forward ⁵	Upright	In-use	N/A	On	N/A
72	225	Forward ⁵	Upright	Stowed	N/A	On	N/A

- 1 If there is no handle, place N/A in the Suppressed/FAIL column in the rows marked "Upright." "Down" means the child restraint manufacturer's recommended position or there is no handle.
- 2 If there is no sunshield, place N/A in the Suppressed/FAIL column in the rows marked "In-use."
- 3 Blanket position 1 (S20.1.5(a)): Place a blanket on the child restraint so that the top and side edges of the restraint are covered. The vehicle seat shall not support the blanket.
- 4 Blanket position 2 (S20.1.5(b)): Place a blanket on the child restraint so that it rests on the top of the vehicle's seat back and the forward most (towards the instrument panel) edge of the child restraint.
- 5 Convertible restraints ONLY (S20.2.1.5) (Appendix A, section C)

Record the weight of the blanket. (Cannot be more than 1 kg (2.2 lb).) ... 0.3 kg
(S20.1.5)

Comments (Record any position readjustments or problems by first stating the row number to which the comment applies.):

The seat belt tension was 132.1 N for all belted positions.

The handle, blanket, and sunshield were not used after position 12 because they did not affect the performance of the suppression system.

Rows 1, 2, 5, 6, 9, and 10 were the same as the foremost seat position.

RESULTS FROM DATA SHEET 14

Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20)

NHTSA No. C30103

Test Date: 10/03/02

Laboratory: VRTC

Test Technician(s): C. Case, B. Smith, G. Four

Child Restraint Name, Model, Date of Manufacture: Graco Snugg Ride (Infant 8457)

Base: ☒ On ☐ Off ☐ N/A-Restraint does not have a removable base

Seat Position: ☐ Rearmost, mid height ☐ Mid-position, mid-height ☒ Foremost, mid-height

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing Rear	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
1	Belted	Rear	Down	In-use	None	N/A	Suppressed
2	Belted	Rear	Down	Stowed	None	N/A	Suppressed
3	Belted	Rear	Upright	In-use	None	N/A	Suppressed
4	Belted	Rear	Upright	Stowed	None	N/A	Suppressed
5	Belted	Rear	Down	In-use	On	N/A	Suppressed
6	Belted	Rear	Down	Stowed	On	N/A	Suppressed
7	Belted	Rear	Upright	In-use	On	N/A	Suppressed
8	Belted	Rear	Upright	Stowed	On	N/A	Suppressed
9	Belted	Rear	Down	In-use	N/A	On	Suppressed
10	Belted	Rear	Down	Stowed	N/A	On	Suppressed
11	Belted	Rear	Upright	In-use	N/A	On	Suppressed
12	Belted	Rear	Upright	Stowed	N/A	On	Suppressed
13	Unbelted	Rear	Down	In-use	None	N/A	Not done
14	Unbelted	Rear	Down	Stowed	None	N/A	Not done
15	Unbelted	Rear	Upright	In-use	None	N/A	Not done
16	Unbelted	Rear	Upright	Stowed	None	N/A	Suppressed
17	Unbelted	Rear	Down	In-use	On	N/A	Not done
18	Unbelted	Rear	Down	Stowed	On	N/A	Not done
19	Unbelted	Rear	Upright	In-use	On	N/A	Not done
20	Unbelted	Rear	Upright	Stowed	On	N/A	Not done
21	Unbelted	Rear	Down	In-use	N/A	On	Not done
22	Unbelted	Rear	Down	Stowed	N/A	On	Not done
23	Unbelted	Rear	Upright	In-use	N/A	On	Not done
24	Unbelted	Rear	Upright	Stowed	N/A	On	Not done
25	225	Rear	Down	In-use	None	N/A	N/A
26	225	Rear	Down	Stowed	None	N/A	N/A
27	225	Rear	Upright	In-use	None	N/A	N/A
28	225	Rear	Upright	Stowed	None	N/A	N/A
29	225	Rear	Down	In-use	On	N/A	N/A
30	225	Rear	Down	Stowed	On	N/A	N/A
31	225	Rear	Upright	In-use	On	N/A	N/A
32	225	Rear	Upright	Stowed	On	N/A	N/A
33	225	Rear	Down	In-use	N/A	On	N/A
34	225	Rear	Down	Stowed	N/A	On	N/A
35	225	Rear	Upright	In-use	N/A	On	N/A
36	225	Rear	Upright	Stowed	N/A	On	N/A

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ³ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
37	Belted	Forward ⁵	Down	In-use	None	N/A	N/A
38	Belted	Forward ⁵	Down	Stowed	None	N/A	N/A
39	Belted	Forward ⁵	Upright	In-use	None	N/A	N/A
40	Belted	Forward ⁵	Upright	Stowed	None	N/A	N/A
41	Belted	Forward ⁵	Down	In-use	On	N/A	N/A
42	Belted	Forward ⁵	Down	Stowed	On	N/A	N/A
43	Belted	Forward ⁵	Upright	In-use	On	N/A	N/A
44	Belted	Forward ⁵	Upright	Stowed	On	N/A	N/A
45	Belted	Forward ⁵	Down	In-use	N/A	On	N/A
46	Belted	Forward ⁵	Down	Stowed	N/A	On	N/A
47	Belted	Forward ⁵	Upright	In-use	N/A	On	N/A
48	Belted	Forward ⁵	Upright	Stowed	N/A	On	N/A
49	Unbelted	Forward	Down	In-use	None	N/A	N/A
50	Unbelted	Forward	Down	Stowed	None	N/A	N/A
51	Unbelted	Forward	Upright	In-use	None	N/A	N/A
52	Unbelted	Forward	Upright	Stowed	None	N/A	N/A
53	Unbelted	Forward	Down	In-use	On	N/A	N/A
54	Unbelted	Forward	Down	Stowed	On	N/A	N/A
55	Unbelted	Forward	Upright	In-use	On	N/A	N/A
56	Unbelted	Forward	Upright	Stowed	On	N/A	N/A
57	Unbelted	Forward	Down	In-use	N/A	On	N/A
58	Unbelted	Forward	Down	Stowed	N/A	On	N/A
59	Unbelted	Forward	Upright	In-use	N/A	On	N/A
60	Unbelted	Forward	Upright	Stowed	N/A	On	N/A
61	225	Forward ⁵	Down	In-use	None	N/A	N/A
62	225	Forward ⁵	Down	Stowed	None	N/A	N/A
63	225	Forward ⁵	Upright	In-use	None	N/A	N/A
64	225	Forward ⁵	Upright	Stowed	None	N/A	N/A
65	225	Forward ⁵	Down	In-use	On	N/A	N/A
66	225	Forward ⁵	Down	Stowed	On	N/A	N/A
67	225	Forward ⁵	Upright	In-use	On	N/A	N/A
68	225	Forward ⁵	Upright	Stowed	On	N/A	N/A
69	225	Forward ⁵	Down	In-use	N/A	On	N/A
70	225	Forward ⁵	Down	Stowed	N/A	On	N/A
71	225	Forward ⁵	Upright	In-use	N/A	On	N/A
72	225	Forward ⁵	Upright	Stowed	N/A	On	N/A

- 1 If there is no handle, place N/A in the Suppressed/FAIL column in the rows marked "Upright."
"Down" means the child restraint manufacturer's recommended position or there is no handle.
- 2 If there is no sunshield, place N/A in the Suppressed/FAIL column in the rows marked "In-use."
- 3 Blanket position 1 (S20.1.5(a)): Place a blanket on the child restraint so that the top and side edges of the restraint are covered. The vehicle seat shall not support the blanket.
- 4 Blanket position 2 (S20.1.5(b)): Place a blanket on the child restraint so that it rests on the top of the vehicle's seat back and the forward most (towards the instrument panel) edge of the child restraint.
- 5 Convertible restraints ONLY (S20.2.1.5) (Appendix A, section C)

Record the weight of the blanket. (Cannot be more than 1 kg (2.2 lb).) 0.3 kg
(S20.1.5)

Comments (Record any position readjustments or problems by first stating the row number to which the comment applies.): The seat belt tension was 132.1 N for all belted positions.

Rows 1, 2, 5, 6, 9, & 10: The seat was set 139.7 mm back from foremost because of child restraint contact with the instrument panel.

Rows 3, 4, 7, 8, 11, & 12: The seat was set 82.6 mm back from foremost because of child restraint contact with the instrument panel.

Rows 16: The seat was set 101.6 mm back from foremost because of child restraint contact with the instrument panel.

RESULTS FROM DATA SHEET 14

Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20)

NHTSA No. C30103 Test Date: 10/11/02
 Laboratory: VRTC Test Technician(s): C. Case, B. Smith, G. Fout
 Child Restraint Name: Model, Date of Manufacture: Graco Snugg Ride (Infant 8457)
 Base: On X Off N/A-Restraint does not have a removable base
 Seat Position: Rearmost, mid height Mid-position, mid-height X Foremost, mid height

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
1	Belted	Rear	Down	In-use	None	N/A	Not done
2	Belted	Rear	Down	Stowed	None	N/A	Not done
3	Belted	Rear	Upright	In-use	None	N/A	Not done
4	Belted	Rear	Upright	Stowed	None	N/A	Suppressed
5	Belted	Rear	Down	In-use	On	N/A	Not done
6	Belted	Rear	Down	Stowed	On	N/A	Not done
7	Belted	Rear	Upright	In-use	On	N/A	Not done
8	Belted	Rear	Upright	Stowed	On	N/A	Not done
9	Belted	Rear	Down	In-use	N/A	On	Not done
10	Belted	Rear	Down	Stowed	N/A	On	Not done
11	Belted	Rear	Upright	In-use	N/A	On	Not done
12	Belted	Rear	Upright	Stowed	N/A	On	Not done
13	Unbelted	Rear	Down	In-use	None	N/A	Not done
14	Unbelted	Rear	Down	Stowed	None	N/A	Not done
15	Unbelted	Rear	Upright	In-use	None	N/A	Not done
16	Unbelted	Rear	Upright	Stowed	None	N/A	Suppressed
17	Unbelted	Rear	Down	In-use	On	N/A	Not done
18	Unbelted	Rear	Down	Stowed	On	N/A	Not done
19	Unbelted	Rear	Upright	In-use	On	N/A	Not done
20	Unbelted	Rear	Upright	Stowed	On	N/A	Not done
21	Unbelted	Rear	Down	In-use	N/A	On	Not done
22	Unbelted	Rear	Down	Stowed	N/A	On	Not done
23	Unbelted	Rear	Upright	In-use	N/A	On	Not done
24	Unbelted	Rear	Upright	Stowed	N/A	On	Not done
25	225	Rear	Down	In-use	None	N/A	N/A
26	225	Rear	Down	Stowed	None	N/A	N/A
27	225	Rear	Upright	In-use	None	N/A	N/A
28	225	Rear	Upright	Stowed	None	N/A	N/A
29	225	Rear	Down	In-use	On	N/A	N/A
30	225	Rear	Down	Stowed	On	N/A	N/A
31	225	Rear	Upright	In-use	On	N/A	N/A
32	225	Rear	Upright	Stowed	On	N/A	N/A
33	225	Rear	Down	In-use	N/A	On	N/A
34	225	Rear	Down	Stowed	N/A	On	N/A
35	225	Rear	Upright	In-use	N/A	On	N/A
36	225	Rear	Upright	Stowed	N/A	On	N/A

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
37	Belted	Forward ⁵	Down	In use	None	N/A	N/A
38	Belted	Forward ⁵	Down	Stowed	None	N/A	N/A
39	Belted	Forward ⁵	Upright	In-use	None	N/A	N/A
40	Belted	Forward ⁵	Upright	Stowed	None	N/A	N/A
41	Belted	Forward ⁵	Down	In-use	On	N/A	N/A
42	Belted	Forward ⁵	Down	Stowed	On	N/A	N/A
43	Belted	Forward ⁵	Upright	In-use	On	N/A	N/A
44	Belted	Forward ⁵	Upright	Stowed	On	N/A	N/A
45	Belted	Forward ⁵	Down	In-use	N/A	On	N/A
46	Belted	Forward ⁵	Down	Stowed	N/A	On	N/A
47	Belted	Forward ⁵	Upright	In-use	N/A	On	N/A
48	Belted	Forward ⁵	Upright	Stowed	N/A	On	N/A
49	Unbelted	Forward	Down	In-use	None	N/A	N/A
50	Unbelted	Forward	Down	Stowed	None	N/A	N/A
51	Unbelted	Forward	Upright	In-use	None	N/A	N/A
52	Unbelted	Forward	Upright	Stowed	None	N/A	N/A
53	Unbelted	Forward	Down	In-use	On	N/A	N/A
54	Unbelted	Forward	Down	Stowed	On	N/A	N/A
55	Unbelted	Forward	Upright	In-use	On	N/A	N/A
56	Unbelted	Forward	Upright	Stowed	On	N/A	N/A
57	Unbelted	Forward	Down	In-use	N/A	On	N/A
58	Unbelted	Forward	Down	Stowed	N/A	On	N/A
59	Unbelted	Forward	Upright	In-use	N/A	On	N/A
60	Unbelted	Forward	Upright	Stowed	N/A	On	N/A
61	225	Forward ⁵	Down	In-use	None	N/A	N/A
62	225	Forward ⁵	Down	Stowed	None	N/A	N/A
63	225	Forward ⁵	Upright	In-use	None	N/A	N/A
64	225	Forward ⁵	Upright	Stowed	None	N/A	N/A
65	225	Forward ⁵	Down	In-use	On	N/A	N/A
66	225	Forward ⁵	Down	Stowed	On	N/A	N/A
67	225	Forward ⁵	Upright	In-use	On	N/A	N/A
68	225	Forward ⁵	Upright	Stowed	On	N/A	N/A
69	225	Forward ⁵	Down	In-use	N/A	On	N/A
70	225	Forward ⁵	Down	Stowed	N/A	On	N/A
71	225	Forward ⁵	Upright	In-use	N/A	On	N/A
72	225	Forward ⁵	Upright	Stowed	N/A	On	N/A

- 1 If there is no handle, place N/A in the Suppressed/FAIL column in the rows marked "Upright."
- 2 "Down" means the child restraint manufacturer's recommended position or there is no handle.
- 3 Blanket position 1 (S20.1.5(a)): Place a blanket on the child restraint so that the top and side edges of the restraint are covered. The vehicle seat shall not support the blanket.
- 4 Blanket position 2 (S20.1.5(b)): Place a blanket on the child restraint so that it rests on the top of the vehicle's seat back and the forward most (towards the instrument panel) edge of the child restraint.
- 5 Convertible restraints ONLY (S20.2.1.5) (Appendix A, section C)

Record the weight of the blanket. (Cannot be more than 1 kg (2.2 lb).) 0.3 kg
(S20.1.5)

Comments (Record any position readjustments or problems by first stating the row number to which the comment applies.):

The seat belt tension was 77.4 N for all belted positions.

Row 16: 111.1 mm rear of foremost. Only 2 positions tested because the suppression system is not affected by the variations.

RESULTS FROM DATA SHEET 14

Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20)

NHTSA No. C30103 Test Date: 10/11/02
 Laboratory: VRTC Test Technician(s): C. Case, B. Smith, G. Fout
 Child Restraint Name, Model, Date of Manufacture: Graco Snugg Ride (Infant 8457)
 Base: On X Off N/A-Restraint does not have a removable base
 Seat Position: X Rearmost, mid-height Mid-position, mid-height Foremost, mid-height

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
1	Belted	Rear	Down	In-use	None	N/A	Not done
2	Belted	Rear	Down	Stowed	None	N/A	Not done
3	Belted	Rear	Upright	In-use	None	N/A	Not done
4	Belted	Rear	Upright	Stowed	None	N/A	Suppressed
5	Belted	Rear	Down	In-use	On	N/A	Not done
6	Belted	Rear	Down	Stowed	On	N/A	Not done
7	Belted	Rear	Upright	In-use	On	N/A	Not done
8	Belted	Rear	Upright	Stowed	On	N/A	Not done
9	Belted	Rear	Down	In-use	N/A	On	Not done
10	Belted	Rear	Down	Stowed	N/A	On	Not done
11	Belted	Rear	Upright	In-use	N/A	On	Not done
12	Belted	Rear	Upright	Stowed	N/A	On	Not done
13	Unbelted	Rear	Down	In-use	None	N/A	Not done
14	Unbelted	Rear	Down	Stowed	None	N/A	Not done
15	Unbelted	Rear	Upright	In-use	None	N/A	Not done
16	Unbelted	Rear	Upright	Stowed	None	N/A	Suppressed
17	Unbelted	Rear	Down	In-use	On	N/A	Not done
18	Unbelted	Rear	Down	Stowed	On	N/A	Not done
19	Unbelted	Rear	Upright	In-use	On	N/A	Not done
20	Unbelted	Rear	Upright	Stowed	On	N/A	Not done
21	Unbelted	Rear	Down	In-use	N/A	On	Not done
22	Unbelted	Rear	Down	Stowed	N/A	On	Not done
23	Unbelted	Rear	Upright	In-use	N/A	On	Not done
24	Unbelted	Rear	Upright	Stowed	N/A	On	Not done
25	225	Rear	Down	In-use	None	N/A	N/A
26	225	Rear	Down	Stowed	None	N/A	N/A
27	225	Rear	Upright	In-use	None	N/A	N/A
28	225	Rear	Upright	Stowed	None	N/A	N/A
29	225	Rear	Down	In-use	On	N/A	N/A
30	225	Rear	Down	Stowed	On	N/A	N/A
31	225	Rear	Upright	In-use	On	N/A	N/A
32	225	Rear	Upright	Stowed	On	N/A	N/A
33	225	Rear	Down	In-use	N/A	On	N/A
34	225	Rear	Down	Stowed	N/A	On	N/A
35	225	Rear	Upright	In-use	N/A	On	N/A
36	225	Rear	Upright	Stowed	N/A	On	N/A

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(e))	Blanket ³ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
37	Belted	Forward ⁵	Down	In-use	None	N/A	N/A
38	Belted	Forward ⁵	Down	Stowed	None	N/A	N/A
39	Belted	Forward ⁵	Upright	In-use	None	N/A	N/A
40	Belted	Forward ⁵	Upright	Stowed	None	N/A	N/A
41	Belted	Forward ⁵	Down	In-use	On	N/A	N/A
42	Belted	Forward ⁵	Down	Stowed	On	N/A	N/A
43	Belted	Forward ⁵	Upright	In-use	On	N/A	N/A
44	Belted	Forward ⁵	Upright	Stowed	On	N/A	N/A
45	Belted	Forward ⁵	Down	In-use	N/A	On	N/A
46	Belted	Forward ⁵	Down	Stowed	N/A	On	N/A
47	Belted	Forward ⁵	Upright	In-use	N/A	On	N/A
48	Belted	Forward ⁵	Upright	Stowed	N/A	On	N/A
49	Unbelted	Forward	Down	In-use	None	N/A	N/A
50	Unbelted	Forward	Down	Stowed	None	N/A	N/A
51	Unbelted	Forward	Upright	In-use	None	N/A	N/A
52	Unbelted	Forward	Upright	Stowed	None	N/A	N/A
53	Unbelted	Forward	Down	In-use	On	N/A	N/A
54	Unbelted	Forward	Down	Stowed	On	N/A	N/A
55	Unbelted	Forward	Upright	In-use	On	N/A	N/A
56	Unbelted	Forward	Upright	Stowed	On	N/A	N/A
57	Unbelted	Forward	Down	In-use	N/A	On	N/A
58	Unbelted	Forward	Down	Stowed	N/A	On	N/A
59	Unbelted	Forward	Upright	In-use	N/A	On	N/A
60	Unbelted	Forward	Upright	Stowed	N/A	On	N/A
61	225	Forward ⁵	Down	In-use	None	N/A	N/A
62	225	Forward ⁵	Down	Stowed	None	N/A	N/A
63	225	Forward ⁵	Upright	In-use	None	N/A	N/A
64	225	Forward ⁵	Upright	Stowed	None	N/A	N/A
65	225	Forward ⁵	Down	In-use	On	N/A	N/A
66	225	Forward ⁵	Down	Stowed	On	N/A	N/A
67	225	Forward ⁵	Upright	In-use	On	N/A	N/A
68	225	Forward ⁵	Upright	Stowed	On	N/A	N/A
69	225	Forward ⁵	Down	In-use	N/A	On	N/A
70	225	Forward ⁵	Down	Stowed	N/A	On	N/A
71	225	Forward ⁵	Upright	In-use	N/A	On	N/A
72	225	Forward ⁵	Upright	Stowed	N/A	On	N/A

- 1 If there is no handle, place N/A in the Suppressed/FAIL column in the rows marked "Upright."
"Down" means the child restraint manufacturer's recommended position or there is no handle.
- 2 If there is no sunshield, place N/A in the Suppressed/FAIL column in the rows marked "In-use."
- 3 Blanket position 1 (S20.1.5(a)): Place a blanket on the child restraint so that the top and side edges of the restraint are covered. The vehicle seat shall not support the blanket.
- 4 Blanket position 2 (S20.1.5(b)): Place a blanket on the child restraint so that it rests on the top of the vehicle's seat back and the forward most (towards the instrument panel) edge of the child restraint.
- 5 Convertible restraints ONLY (S20.2.1.5) (Appendix A, section C)

Record the weight of the blanket. (Cannot be more than 1 kg (2.2 lb).) . 0.3 kg
(S20.1.5)

Comments (Record any position readjustments or problems by first stating the row number to which the comment applies.):

The seat belt tension was 77.4 N for all belted positions. Only 2 positions tested because of the suppression system is not affected by the variations.

RESULTS FROM DATA SHEET 14

Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20)

NHTSA No. C3C103 Test Date: 10/11/02
 Laboratory: VRTC Test Technician(s): C. Case, B. Smith, G. Fout
 Child Restraint Name, Model, Date of Manufacture: Graco Snugg Ride (Infant 8457)
 Base: On X Off N/A-Restraint does not have a removable base
 Seat Position: Rearmost, mid-height X Mid-position, mid-height Foremost, mid-height

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(e))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
1	Belted	Rear	Down	In-use	None	N/A	Not done
2	Belted	Rear	Down	Stowed	None	N/A	Not done
3	Belted	Rear	Upright	In-use	None	N/A	Not done
4	Belted	Rear	Upright	Stowed	None	N/A	Suppressed
5	Belted	Rear	Down	In-use	On	N/A	Not done
6	Belted	Rear	Down	Stowed	On	N/A	Not done
7	Belted	Rear	Upright	In-use	On	N/A	Not done
8	Belted	Rear	Upright	Stowed	On	N/A	Not done
9	Belted	Rear	Down	In-use	N/A	On	Not done
10	Belted	Rear	Down	Stowed	N/A	On	Not done
11	Belted	Rear	Upright	In-use	N/A	On	Not done
12	Belted	Rear	Upright	Stowed	N/A	On	Not done
13	Unbelted	Rear	Down	In-use	None	N/A	Not done
14	Unbelted	Rear	Down	Stowed	None	N/A	Not done
15	Unbelted	Rear	Upright	In-use	None	N/A	Not done
16	Unbelted	Rear	Upright	Stowed	None	N/A	N/A
17	Unbelted	Rear	Down	In-use	On	N/A	Not done
18	Unbelted	Rear	Down	Stowed	On	N/A	Not done
19	Unbelted	Rear	Upright	In-use	On	N/A	Not done
20	Unbelted	Rear	Upright	Stowed	On	N/A	Not done
21	Unbelted	Rear	Down	In-use	N/A	On	Not done
22	Unbelted	Rear	Down	Stowed	N/A	On	Not done
23	Unbelted	Rear	Upright	In-use	N/A	On	Not done
24	Unbelted	Rear	Upright	Stowed	N/A	On	Not done
25	225	Rear	Down	In-use	None	N/A	N/A
26	225	Rear	Down	Stowed	None	N/A	N/A
27	225	Rear	Upright	In-use	None	N/A	N/A
28	225	Rear	Upright	Stowed	None	N/A	N/A
29	225	Rear	Down	In-use	On	N/A	N/A
30	225	Rear	Down	Stowed	On	N/A	N/A
31	225	Rear	Upright	In-use	On	N/A	N/A
32	225	Rear	Upright	Stowed	On	N/A	N/A
33	225	Rear	Down	In-use	N/A	On	N/A
34	225	Rear	Down	Stowed	N/A	On	N/A
35	225	Rear	Upright	In-use	N/A	On	N/A
36	225	Rear	Upright	Stowed	N/A	On	N/A

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
37	Belted	Forward ⁵	Down	In-use	None	N/A	N/A
38	Belted	Forward ⁵	Down	Stowed	None	N/A	N/A
39	Belted	Forward ⁵	Upright	In-use	None	N/A	N/A
40	Belted	Forward ⁵	Upright	Stowed	None	N/A	N/A
41	Belted	Forward ⁵	Down	In-use	On	N/A	N/A
42	Belted	Forward ⁵	Down	Stowed	On	N/A	N/A
43	Belted	Forward ⁵	Upright	In-use	On	N/A	N/A
44	Belted	Forward ⁵	Upright	Stowed	On	N/A	N/A
45	Belted	Forward ⁵	Down	In-use	N/A	On	N/A
46	Belted	Forward ⁵	Down	Stowed	N/A	On	N/A
47	Belted	Forward ⁵	Upright	In-use	N/A	On	N/A
48	Belted	Forward ⁵	Upright	Stowed	N/A	On	N/A
49	Unbelted	Forward	Down	In-use	None	N/A	N/A
50	Unbelted	Forward	Down	Stowed	None	N/A	N/A
51	Unbelted	Forward	Upright	In-use	None	N/A	N/A
52	Unbelted	Forward	Upright	Stowed	None	N/A	N/A
53	Unbelted	Forward	Down	In-use	On	N/A	N/A
54	Unbelted	Forward	Down	Stowed	On	N/A	N/A
55	Unbelted	Forward	Upright	In-use	On	N/A	N/A
56	Unbelted	Forward	Upright	Stowed	On	N/A	N/A
57	Unbelted	Forward	Down	In-use	N/A	On	N/A
58	Unbelted	Forward	Down	Stowed	N/A	On	N/A
59	Unbelted	Forward	Upright	In-use	N/A	On	N/A
60	Unbelted	Forward	Upright	Stowed	N/A	On	N/A
61	225	Forward ⁵	Down	In-use	None	N/A	N/A
62	225	Forward ⁵	Down	Stowed	None	N/A	N/A
63	225	Forward ⁵	Upright	In-use	None	N/A	N/A
64	225	Forward ⁵	Upright	Stowed	None	N/A	N/A
65	225	Forward ⁵	Down	In-use	On	N/A	N/A
66	225	Forward ⁵	Down	Stowed	On	N/A	N/A
67	225	Forward ⁵	Upright	In-use	On	N/A	N/A
68	225	Forward ⁵	Upright	Stowed	On	N/A	N/A
69	225	Forward ⁵	Down	In-use	N/A	On	N/A
70	225	Forward ⁵	Down	Stowed	N/A	On	N/A
71	225	Forward ⁵	Upright	In-use	N/A	On	N/A
72	225	Forward ⁵	Upright	Stowed	N/A	On	N/A

- 1 If there is no handle, place N/A in the Suppressed/FAIL column in the rows marked "Upright."
"Down" means the child restraint manufacturer's recommended position or there is no handle.
- 2 If there is no sunshield, place N/A in the Suppressed/FAIL column in the rows marked "In-use."
- 3 Blanket position 1 (S20.1.5(a)): Place a blanket on the child restraint so that the top and side edges of the restraint are covered. The vehicle seat shall not support the blanket.
- 4 Blanket position 2 (S20.1.5(b)): Place a blanket on the child restraint so that it rests on the top of the vehicle's seat back and the forward most (towards the instrument panel) edge of the child restraint.
- 5 Convertible restraints ONLY (S20.2.1.5) (Appendix A, section C)

Record the weight of the blanket. (Cannot be more than 1 kg (2.2 lb).) 0.3 kg
(S20.1.5)

Comments (Record any position readjustments or problems by first stating the row number to which the comment applies.):

The seat belt tension was 77.4 N for all belted positions.

Row 16: This was the same position as foremost. Only 2 positions tested because of the suppression system is not affected by the variations

RESULTS FROM DATA SHEET 14

Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20)

NHTSA No. C30103

Test Date: 10/11/02

Laboratory: VRTC

Test Technician(s): C. Case, B. Smith, G. Fout

Child Restraint Name, Model, Date of Manufacture: Britax Roundabout 151

Base: On Off X N/A-Restraint does not have a removable base

Seat Position: Rearmost, mid height Mid position, mid-height X Foremost, mid-height

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
1	Belted	Rear	Down	In-use	None	N/A	Not done
2	Belted	Rear	Down	Stowed	None	N/A	Suppressed
3	Belted	Rear	Upright	In-use	None	N/A	Not done
4	Belted	Rear	Upright	Stowed	None	N/A	Not done
5	Belted	Rear	Down	In-use	On	N/A	Not done
6	Belted	Rear	Down	Stowed	On	N/A	Not done
7	Belted	Rear	Upright	In-use	On	N/A	Not done
8	Belted	Rear	Upright	Stowed	On	N/A	Not done
9	Belted	Rear	Down	In-use	N/A	On	Not done
10	Belted	Rear	Down	Stowed	N/A	On	Not done
11	Belted	Rear	Upright	In-use	N/A	On	Not done
12	Belted	Rear	Upright	Stowed	N/A	On	Not done
13	Unbelted	Rear	Down	In-use	None	N/A	Not done
14	Unbelted	Rear	Down	Stowed	None	N/A	Suppressed
15	Unbelted	Rear	Upright	In-use	None	N/A	Not done
16	Unbelted	Rear	Upright	Stowed	None	N/A	Not done
17	Unbelted	Rear	Down	In-use	On	N/A	Not done
18	Unbelted	Rear	Down	Stowed	On	N/A	Not done
19	Unbelted	Rear	Upright	In-use	On	N/A	Not done
20	Unbelted	Rear	Upright	Stowed	On	N/A	Not done
21	Unbelted	Rear	Down	In-use	N/A	On	Not done
22	Unbelted	Rear	Down	Stowed	N/A	On	Not done
23	Unbelted	Rear	Upright	In-use	N/A	On	Not done
24	Unbelted	Rear	Upright	Stowed	N/A	On	Not done
25	225	Rear	Down	In-use	None	N/A	N/A
26	225	Rear	Down	Stowed	None	N/A	N/A
27	225	Rear	Upright	In-use	None	N/A	N/A
28	225	Rear	Upright	Stowed	None	N/A	N/A
29	225	Rear	Down	In-use	On	N/A	N/A
30	225	Rear	Down	Stowed	On	N/A	N/A
31	225	Rear	Upright	In-use	On	N/A	N/A
32	225	Rear	Upright	Stowed	On	N/A	N/A
33	225	Rear	Down	In-use	N/A	On	N/A
34	225	Rear	Down	Stowed	N/A	On	N/A
35	225	Rear	Upright	In-use	N/A	On	N/A
36	225	Rear	Upright	Stowed	N/A	On	N/A

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
37	Belted	Forward ⁵	Down	In-use	None	N/A	Not done
38	Belted	Forward ⁵	Down	Stowed	None	N/A	Suppressed
39	Belted	Forward ⁵	Upright	In-use	None	N/A	Not done
40	Belted	Forward ⁵	Upright	Stowed	None	N/A	Not done
41	Belted	Forward ⁵	Down	In-use	On	N/A	Not done
42	Belted	Forward ⁵	Down	Stowed	On	N/A	Not done
43	Belted	Forward ⁵	Upright	In-use	On	N/A	Not done
44	Belted	Forward ⁵	Upright	Stowed	On	N/A	Not done
45	Belted	Forward ⁵	Down	In-use	N/A	On	Not done
46	Belted	Forward ⁵	Down	Stowed	N/A	On	Not done
47	Belted	Forward ⁵	Upright	In-use	N/A	On	Not done
48	Belted	Forward ⁵	Upright	Stowed	N/A	On	Not done
49	Unbelted	Forward	Down	In-use	None	N/A	Not done
50	Unbelted	Forward	Down	Stowed	None	N/A	Suppressed
51	Unbelted	Forward	Upright	In-use	None	N/A	Not done
52	Unbelted	Forward	Upright	Stowed	None	N/A	Not done
53	Unbelted	Forward	Down	In-use	On	N/A	Not done
54	Unbelted	Forward	Down	Stowed	On	N/A	Not done
55	Unbelted	Forward	Upright	In-use	On	N/A	Not done
56	Unbelted	Forward	Upright	Stowed	On	N/A	Not done
57	Unbelted	Forward	Down	In-use	N/A	On	Not done
58	Unbelted	Forward	Down	Stowed	N/A	On	Not done
59	Unbelted	Forward	Upright	In-use	N/A	On	Not done
60	Unbelted	Forward	Upright	Stowed	N/A	On	Not done
61	225	Forward ⁵	Down	In-use	None	N/A	N/A
62	225	Forward ⁵	Down	Stowed	None	N/A	N/A
63	225	Forward ⁵	Upright	In-use	None	N/A	N/A
64	225	Forward ⁵	Upright	Stowed	None	N/A	N/A
65	225	Forward ⁵	Down	In-use	On	N/A	N/A
66	225	Forward ⁵	Down	Stowed	On	N/A	N/A
67	225	Forward ⁵	Upright	In-use	On	N/A	N/A
68	225	Forward ⁵	Upright	Stowed	On	N/A	N/A
69	225	Forward ⁵	Down	In-use	N/A	On	N/A
70	225	Forward ⁵	Down	Stowed	N/A	On	N/A
71	225	Forward ⁵	Upright	In-use	N/A	On	N/A
72	225	Forward ⁵	Upright	Stowed	N/A	On	N/A

- 1 If there is no handle, place N/A in the Suppressed/FAIL column in the rows marked "Upright."
"Down" means the child restraint manufacturer's recommended position or there is no handle.
- 2 If there is no sunshield, place N/A in the Suppressed/FAIL column in the rows marked "In-use."
- 3 Blanket position 1 (S20.1.5(a)): Place a blanket on the child restraint so that the top and side edges of the restraint are covered. The vehicle seat shall not support the blanket.
- 4 Blanket position 2 (S20.1.5(b)): Place a blanket on the child restraint so that it rests on the top of the vehicle's seat back and the forward most (towards the instrument panel) edge of the child restraint.
- 5 Convertible restraints ONLY (S20.2.1.5) (Appendix A, section C)

Record the weight of the blanket. (Cannot be more than 1 kg (2.2 lb).) 0.3 kg
(S20.1.5)

Comments (Record any position readjustments or problems by first stating the row number to which the comment applies.

Row 2: The seat belt tension was 130.3 N for belted position.

Row 14: The seat was 95.2 mm rearward of foremost

Row 38: The seat belt tension was 128.1 N for belted positions.

Row 52: The seat was 9.5 mm rear of foremost.

RESULTS FROM DATA SHEET 14
Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20)

NHTSA No. C30103 Test Date: 10/11/02
 Laboratory: VRTC Test Technician(s): C. Case, B. Smith, G. Fout
 Child Restraint Name, Model, Date of Manufacture: Britax Roundabout 161
 Base: On Off X N/A-Restraint does not have a removable base
 Seat Position: X Rearmost, mid-height Mid-position, mid-height Foremost, mid-height

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Bankot ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
1	Belted	Rear	Down	In-use	None	N/A	Not done
2	Belted	Rear	Down	Stowed	None	N/A	Suppressed
3	Belted	Rear	Upright	In-use	None	N/A	Not done
4	Belted	Rear	Upright	Stowed	None	N/A	Not done
5	Belted	Rear	Down	In-use	On	N/A	Not done
6	Belted	Rear	Down	Stowed	On	N/A	Not done
7	Belted	Rear	Upright	In-use	On	N/A	Not done
8	Belted	Rear	Upright	Stowed	On	N/A	Not done
9	Belted	Rear	Down	In-use	N/A	On	Not done
10	Belted	Rear	Down	Stowed	N/A	On	Not done
11	Belted	Rear	Upright	In-use	N/A	On	Not done
12	Belted	Rear	Upright	Stowed	N/A	On	Not done
13	Unbelted	Rear	Down	In-use	None	N/A	Not done
14	Unbelted	Rear	Down	Stowed	None	N/A	Suppressed
15	Unbelted	Rear	Upright	In-use	None	N/A	Not done
16	Unbelted	Rear	Upright	Stowed	None	N/A	Not done
17	Unbelted	Rear	Down	In-use	On	N/A	Not done
18	Unbelted	Rear	Down	Stowed	On	N/A	Not done
19	Unbelted	Rear	Upright	In-use	On	N/A	Not done
20	Unbelted	Rear	Upright	Stowed	On	N/A	Not done
21	Unbelted	Rear	Down	In-use	N/A	On	Not done
22	Unbelted	Rear	Down	Stowed	N/A	On	Not done
23	Unbelted	Rear	Upright	In-use	N/A	On	Not done
24	Unbelted	Rear	Upright	Stowed	N/A	On	Not done
25	225	Rear	Down	In-use	None	N/A	N/A
26	225	Rear	Down	Stowed	None	N/A	N/A
27	225	Rear	Upright	In-use	None	N/A	N/A
28	225	Rear	Upright	Stowed	None	N/A	N/A
29	225	Rear	Down	In-use	On	N/A	N/A
30	225	Rear	Down	Stowed	On	N/A	N/A
31	225	Rear	Upright	In-use	On	N/A	N/A
32	225	Rear	Upright	Stowed	On	N/A	N/A
33	225	Rear	Down	In-use	N/A	On	N/A
34	225	Rear	Down	Stowed	N/A	On	N/A
35	225	Rear	Upright	In-use	N/A	On	N/A
36	225	Rear	Upright	Stowed	N/A	On	N/A

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
37	Belted	Forward ⁵	Down	In-use	None	N/A	Not done
38	Belted	Forward ⁵	Down	Stowed	None	N/A	Suppressed
39	Belted	Forward ⁵	Upright	In-use	None	N/A	Not done
40	Belted	Forward ⁵	Upright	Stowed	None	N/A	Not done
41	Belted	Forward ⁵	Down	In-use	On	N/A	Not done
42	Belted	Forward ⁵	Down	Stowed	On	N/A	Not done
43	Belted	Forward ⁵	Upright	In-use	On	N/A	Not done
44	Belted	Forward ⁵	Upright	Stowed	On	N/A	Not done
45	Belted	Forward ⁵	Down	In-use	N/A	On	Not done
46	Belted	Forward ⁵	Down	Stowed	N/A	On	Not done
47	Belted	Forward ⁵	Upright	In-use	N/A	On	Not done
48	Belted	Forward ⁵	Upright	Stowed	N/A	On	Not done
49	Unbelted	Forward	Down	In-use	None	N/A	Not done
50	Unbelted	Forward	Down	Stowed	None	N/A	Suppressed
51	Unbelted	Forward	Upright	In-use	None	N/A	Not done
52	Unbelted	Forward	Upright	Stowed	None	N/A	Not done
53	Unbelted	Forward	Down	In-use	On	N/A	Not done
54	Unbelted	Forward	Down	Stowed	On	N/A	Not done
55	Unbelted	Forward	Upright	In-use	On	N/A	Not done
56	Unbelted	Forward	Upright	Stowed	On	N/A	Not done
57	Unbelted	Forward	Down	In-use	N/A	On	Not done
58	Unbelted	Forward	Down	Stowed	N/A	On	Not done
59	Unbelted	Forward	Upright	In-use	N/A	On	Not done
60	Unbelted	Forward	Upright	Stowed	N/A	On	Not done
61	225	Forward ⁵	Down	In-use	None	N/A	N/A
62	225	Forward ⁵	Down	Stowed	None	N/A	N/A
63	225	Forward ⁵	Upright	In-use	None	N/A	N/A
64	225	Forward ⁵	Upright	Stowed	None	N/A	N/A
65	225	Forward ⁵	Down	In-use	On	N/A	N/A
66	225	Forward ⁵	Down	Stowed	On	N/A	N/A
67	225	Forward ⁵	Upright	In-use	On	N/A	N/A
68	225	Forward ⁵	Upright	Stowed	On	N/A	N/A
69	225	Forward ⁵	Down	In-use	N/A	On	N/A
70	225	Forward ⁵	Down	Stowed	N/A	On	N/A
71	225	Forward ⁵	Upright	In-use	N/A	On	N/A
72	225	Forward ⁵	Upright	Stowed	N/A	On	N/A

- 1 If there is no handle, place N/A in the Suppressed/FAIL column in the rows marked "Upright." "Down" means the child restraint manufacturer's recommended position or there is no handle.
- 2 If there is no sunshield, place N/A in the Suppressed/FAIL column in the rows marked "In-use."
- 3 Blanket position 1 (S20.1.5(a)): Place a blanket on the child restraint so that the top and side edges of the restraint are covered. The vehicle seat shall not support the blanket.
- 4 Blanket position 2 (S20.1.5(b)): Place a blanket on the child restraint so that it rests on the top of the vehicle's seat back and the forward most (towards the instrument panel) edge of the child restraint.
- 5 Convertible restraints ONLY (S20.2.1.5) (Appendix A, section C)

Record the weight of the blanket. (Cannot be more than 1 kg (2.2 lb).) 0.3 kg
(S20.1.5)

Comments (Record any position readjustments or problems by first stating the row number to which the comment applies.

Row 2: The seat belt tension was 130.3 N for belted positions.

Rows 38: The seat belt tension was not recorded.

RESULTS FROM DATA SHEET 14

Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20)

NHTSA No. C30103

Test Date: 10/11/02

Laboratory: VRTC

Test Technician(s): C. Case, B. Smith, G. Fout

Child Restraint Name, Model, Date of Manufacture: Britax Roundabout 161

Base: ☐ On ☐ Off ☒ N/A-Restraint does not have a removable base

Seat Position: ☐ Rearmost, mid-height ☒ Mid-position, mid-height ☐ Foremost, mid-height

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ³ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
1	Belted	Rear	Down	In-use	None	N/A	Not done
2	Belted	Rear	Down	Stowed	None	N/A	Suppressed
3	Belted	Rear	Upright	In-use	None	N/A	Not done
4	Belted	Rear	Upright	Stowed	None	N/A	Not done
5	Belted	Rear	Down	In-use	On	N/A	Not done
6	Belted	Rear	Down	Stowed	On	N/A	Not done
7	Belted	Rear	Upright	In-use	On	N/A	Not done
8	Belted	Rear	Upright	Stowed	On	N/A	Not done
9	Belted	Rear	Down	In-use	N/A	On	Not done
10	Belted	Rear	Down	Stowed	N/A	On	Not done
11	Belted	Rear	Upright	In-use	N/A	On	Not done
12	Belted	Rear	Upright	Stowed	N/A	On	Not done
13	Unbelted	Rear	Down	In-use	None	N/A	Not done
14	Unbelted	Rear	Down	Stowed	None	N/A	Suppressed
15	Unbelted	Rear	Upright	In-use	None	N/A	Not done
16	Unbelted	Rear	Upright	Stowed	None	N/A	Not done
17	Unbelted	Rear	Down	In-use	On	N/A	Not done
18	Unbelted	Rear	Down	Stowed	On	N/A	Not done
19	Unbelted	Rear	Upright	In-use	On	N/A	Not done
20	Unbelted	Rear	Upright	Stowed	On	N/A	Not done
21	Unbelted	Rear	Down	In-use	N/A	On	Not done
22	Unbelted	Rear	Down	Stowed	N/A	On	Not done
23	Unbelted	Rear	Upright	In-use	N/A	On	Not done
24	Unbelted	Rear	Upright	Stowed	N/A	On	Not done
25	225	Rear	Down	In-use	None	N/A	N/A
26	225	Rear	Down	Stowed	None	N/A	N/A
27	225	Rear	Upright	In-use	None	N/A	N/A
28	225	Rear	Upright	Stowed	None	N/A	N/A
29	225	Rear	Down	In-use	On	N/A	N/A
30	225	Rear	Down	Stowed	On	N/A	N/A
31	225	Rear	Upright	In-use	On	N/A	N/A
32	225	Rear	Upright	Stowed	On	N/A	N/A
33	225	Rear	Down	In-use	N/A	On	N/A
34	225	Rear	Down	Stowed	N/A	On	N/A
35	225	Rear	Upright	In-use	N/A	On	N/A
36	225	Rear	Upright	Stowed	N/A	On	N/A

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
37	Belted	Forward ⁵	Down	In-use	None	N/A	Not done
38	Belted	Forward ⁵	Down	Stowed	None	N/A	Suppressed
39	Belted	Forward ⁵	Upright	In-use	None	N/A	Not done
40	Belted	Forward ⁵	Upright	Stowed	None	N/A	Not done
41	Belted	Forward ⁵	Down	In-use	On	N/A	Not done
42	Belted	Forward ⁵	Down	Stowed	On	N/A	Not done
43	Belted	Forward ⁵	Upright	In-use	On	N/A	Not done
44	Belted	Forward ⁵	Upright	Stowed	On	N/A	Not done
45	Belted	Forward ⁵	Down	In-use	N/A	On	Not done
46	Belted	Forward ⁵	Down	Stowed	N/A	On	Not done
47	Belted	Forward ⁵	Upright	In-use	N/A	On	Not done
48	Belted	Forward ⁵	Upright	Stowed	N/A	On	Not done
49	Unbelted	Forward	Down	In-use	None	N/A	Not done
50	Unbelted	Forward	Down	Stowed	None	N/A	Suppressed
51	Unbelted	Forward	Upright	In-use	None	N/A	Not done
52	Unbelted	Forward	Upright	Stowed	None	N/A	Not done
53	Unbelted	Forward	Down	In-use	On	N/A	Not done
54	Unbelted	Forward	Down	Stowed	On	N/A	Not done
55	Unbelted	Forward	Upright	In-use	On	N/A	Not done
56	Unbelted	Forward	Upright	Stowed	On	N/A	Not done
57	Unbelted	Forward	Down	In-use	N/A	On	Not done
58	Unbelted	Forward	Down	Stowed	N/A	On	Not done
59	Unbelted	Forward	Upright	In-use	N/A	On	Not done
60	Unbelted	Forward	Upright	Stowed	N/A	On	Not done
61	225	Forward ⁵	Down	In-use	None	N/A	N/A
62	225	Forward ⁵	Down	Stowed	None	N/A	N/A
63	225	Forward ⁵	Upright	In-use	None	N/A	N/A
64	225	Forward ⁵	Upright	Stowed	None	N/A	N/A
65	225	Forward ⁵	Down	In-use	On	N/A	N/A
66	225	Forward ⁵	Down	Stowed	On	N/A	N/A
67	225	Forward ⁵	Upright	In-use	On	N/A	N/A
68	225	Forward ⁵	Upright	Stowed	On	N/A	N/A
69	225	Forward ⁵	Down	In-use	N/A	On	N/A
70	225	Forward ⁵	Down	Stowed	N/A	On	N/A
71	225	Forward ⁵	Upright	In-use	N/A	On	N/A
72	225	Forward ⁵	Upright	Stowed	N/A	On	N/A

- 1 If there is no handle, place N/A in the Suppressed/FAIL column in the rows marked "Upright."
- 2 "Down" means the child restraint manufacturer's recommended position or there is no handle.
- 3 If there is no sunshield, place N/A in the Suppressed/FAIL column in the rows marked "In-use."
- 3 Blanket position 1 (S20.1.5(a)): Place a blanket on the child restraint so that the top and side edges of the restraint are covered. The vehicle seat shall not support the blanket.
- 4 Blanket position 2 (S20.1.5(b)): Place a blanket on the child restraint so that it rests on the top of the vehicle's seat back and the forward most (towards the instrument panel) edge of the child restraint.
- 5 Convertible restraints ONLY (S20.2.1.5) (Appendix A, section C)

Record the weight of the blanket. (Cannot be more than 1 kg (2.2 lb).) 0.3 kg
(S20.1.5)

Comments (Record any position readjustments or problems by first stating the row number to which the comment applies.

Rows 2: The seat belt tension was 130.3 N for belted positions.

Row 14: Same as foremost position.

Row 38: The seat belt tension was not recorded.

RESULTS FROM DATA SHEET 14

Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20)

NHTSA No. C30103

Test Date: 10/11/02

Laboratory: VRTC

Test Technician(s): C. Case, B. Smith, G. Fout

Child Restraint Name, Model, Date of Manufacture: Century Encore

Base: On Off X N/A-Restraint does not have a removable base

Seat Position: Rearmost, mid-height X Mid-position, mid-height Foremost, mid-height

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
1	Belted	Rear	Down	In-use	None	N/A	Not done
2	Belted	Rear	Down	Stowed	None	N/A	Suppressed
3	Belted	Rear	Upright	In-use	None	N/A	Not done
4	Belted	Rear	Upright	Stowed	None	N/A	Not done
5	Belted	Rear	Down	In-use	On	N/A	Not done
6	Belted	Rear	Down	Stowed	On	N/A	Not done
7	Belted	Rear	Upright	In-use	On	N/A	Not done
8	Belted	Rear	Upright	Stowed	On	N/A	Not done
9	Belted	Rear	Down	In-use	N/A	On	Not done
10	Belted	Rear	Down	Stowed	N/A	On	Not done
11	Belted	Rear	Upright	In-use	N/A	On	Not done
12	Belted	Rear	Upright	Stowed	N/A	On	Not done
13	Unbelted	Rear	Down	In-use	None	N/A	Not done
14	Unbelted	Rear	Down	Stowed	None	N/A	Suppressed
15	Unbelted	Rear	Upright	In-use	None	N/A	Not done
16	Unbelted	Rear	Upright	Stowed	None	N/A	Not done
17	Unbelted	Rear	Down	In-use	On	N/A	Not done
18	Unbelted	Rear	Down	Stowed	On	N/A	Not done
19	Unbelted	Rear	Upright	In-use	On	N/A	Not done
20	Unbelted	Rear	Upright	Stowed	On	N/A	Not done
21	Unbelted	Rear	Down	In-use	N/A	On	Not done
22	Unbelted	Rear	Down	Stowed	N/A	On	Not done
23	Unbelted	Rear	Upright	In-use	N/A	On	Not done
24	Unbelted	Rear	Upright	Stowed	N/A	On	Not done
25	225	Rear	Down	In-use	None	N/A	N/A
26	225	Rear	Down	Stowed	None	N/A	N/A
27	225	Rear	Upright	In-use	None	N/A	N/A
28	225	Rear	Upright	Stowed	None	N/A	N/A
29	225	Rear	Down	In-use	On	N/A	N/A
30	225	Rear	Down	Stowed	On	N/A	N/A
31	225	Rear	Upright	In-use	On	N/A	N/A
32	225	Rear	Upright	Stowed	On	N/A	N/A
33	225	Rear	Down	In-use	N/A	On	N/A
34	225	Rear	Down	Stowed	N/A	On	N/A
35	225	Rear	Upright	In-use	N/A	On	N/A
36	225	Rear	Upright	Stowed	N/A	On	N/A

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ⁴ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
37	Belted	Forward ⁵	Down	In-use	None	N/A	Not done
38	Belted	Forward ⁵	Down	Stowed	None	N/A	Suppressed
39	Belted	Forward ⁵	Upright	In-use	None	N/A	Not done
40	Belted	Forward ⁵	Upright	Stowed	None	N/A	Not done
41	Belted	Forward ⁵	Down	In-use	On	N/A	Not done
42	Belted	Forward ⁵	Down	Stowed	On	N/A	Not done
43	Belted	Forward ⁵	Upright	In-use	On	N/A	Not done
44	Belted	Forward ⁵	Upright	Stowed	On	N/A	Not done
45	Belted	Forward ⁵	Down	In-use	N/A	On	Not done
46	Belted	Forward ⁵	Down	Stowed	N/A	On	Not done
47	Belted	Forward ⁵	Upright	In-use	N/A	On	Not done
48	Belted	Forward ⁵	Upright	Stowed	N/A	On	Not done
49	Unbelted	Forward	Down	In-use	None	N/A	Not done
50	Unbelted	Forward	Down	Stowed	None	N/A	Suppressed
51	Unbelted	Forward	Upright	In-use	None	N/A	Not done
52	Unbelted	Forward	Upright	Stowed	None	N/A	Not done
53	Unbelted	Forward	Down	In-use	On	N/A	Not done
54	Unbelted	Forward	Down	Stowed	On	N/A	Not done
55	Unbelted	Forward	Upright	In-use	On	N/A	Not done
56	Unbelted	Forward	Upright	Stowed	On	N/A	Not done
57	Unbelted	Forward	Down	In-use	N/A	On	Not done
58	Unbelted	Forward	Down	Stowed	N/A	On	Not done
59	Unbelted	Forward	Upright	In-use	N/A	On	N/A
60	Unbelted	Forward	Upright	Stowed	N/A	On	N/A
61	225	Forward ⁵	Down	In-use	None	N/A	N/A
62	225	Forward ⁵	Down	Stowed	None	N/A	N/A
63	225	Forward ⁵	Upright	In-use	None	N/A	N/A
64	225	Forward ⁵	Upright	Stowed	None	N/A	N/A
65	225	Forward ⁵	Down	In-use	On	N/A	N/A
66	225	Forward ⁵	Down	Stowed	On	N/A	N/A
67	225	Forward ⁵	Upright	In-use	On	N/A	N/A
68	225	Forward ⁵	Upright	Stowed	On	N/A	N/A
69	225	Forward ⁵	Down	In-use	N/A	On	N/A
70	225	Forward ⁵	Down	Stowed	N/A	On	N/A
71	225	Forward ⁵	Upright	In-use	N/A	On	N/A
72	225	Forward ⁵	Upright	Stowed	N/A	On	N/A

- 1 If there is no handle, place N/A in the Suppressed/FAIL column in the rows marked "Upright." "Down," means the child restraint manufacturer's recommended position or there is no handle.
- 2 If there is no sunshield, place N/A in the Suppressed/FAIL column in the rows marked "In-use."
- 3 Blanket position 1 (S20.1.5(a)): Place a blanket on the child restraint so that the top and side edges of the restraint are covered. The vehicle seat shall not support the blanket.
- 4 Blanket position 2 (S20.1.5(b)): Place a blanket on the child restraint so that it rests on the top of the vehicle's seat back and the forward most (towards the instrument panel) edge of the child restraint.
- 5 Convertible restraints ONLY (S20.2.1.5) (Appendix A, section C)

Record the weight of the blanket. (Cannot be more than 1 kg (2.2 lb).) ... 0.3 kg
(S20.1.5)

Comments (Record any position readjustments or problems by first stating the row number to which the comment applies.

Rows 2: The seat belt tension was 131.2 N for belted positions

Row 14: This was the same as the foremost seat position.

Row 38: The seat belt tension was 120.1 N for belted positions.

RESULTS FROM DATA SHEET 14

Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20)

NHTSA No. C30103

Test Date: 10/11/02

Laboratory: VRTC Test Technician(s): C. Case, B. Smith, G. Fout

Child Restraint Name, Model, Date of Manufacture: Century Encore

Base: On Off X N/A-Restraint does not have a removable base

Seat Position: Rearmost, mid-height Mid-position, mid-height X Foremost, mid-height

	Bolted, Unbolted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
1	Bolted	Rear	Down	In-use	None	N/A	Not done
2	Bolted	Rear	Down	Stowed	None	N/A	Suppressed
3	Bolted	Rear	Upright	In-use	None	N/A	Not done
4	Bolted	Rear	Upright	Stowed	None	N/A	Not done
5	Bolted	Rear	Down	In-use	On	N/A	Not done
6	Bolted	Rear	Down	Stowed	On	N/A	Not done
7	Bolted	Rear	Upright	In-use	On	N/A	Not done
8	Bolted	Rear	Upright	Stowed	On	N/A	Not done
9	Bolted	Rear	Down	In-use	N/A	On	Not done
10	Bolted	Rear	Down	Stowed	N/A	On	Not done
11	Bolted	Rear	Upright	In-use	N/A	On	Not done
12	Bolted	Rear	Upright	Stowed	N/A	On	Not done
13	Unbolted	Rear	Down	In-use	None	N/A	Not done
14	Unbolted	Rear	Down	Stowed	None	N/A	Suppressed
15	Unbolted	Rear	Upright	In-use	None	N/A	Not done
16	Unbolted	Rear	Upright	Stowed	None	N/A	Not done
17	Unbolted	Rear	Down	In-use	On	N/A	Not done
18	Unbolted	Rear	Down	Stowed	On	N/A	Not done
19	Unbolted	Rear	Upright	In-use	On	N/A	Not done
20	Unbolted	Rear	Upright	Stowed	On	N/A	Not done
21	Unbolted	Rear	Down	In-use	N/A	On	Not done
22	Unbolted	Rear	Down	Stowed	N/A	On	Not done
23	Unbolted	Rear	Upright	In-use	N/A	On	Not done
24	Unbolted	Rear	Upright	Stowed	N/A	On	Not done
25	225	Rear	Down	In-use	None	N/A	N/A
26	225	Rear	Down	Stowed	None	N/A	N/A
27	225	Rear	Upright	In-use	None	N/A	N/A
28	225	Rear	Upright	Stowed	None	N/A	N/A
29	225	Rear	Down	In-use	On	N/A	N/A
30	225	Rear	Down	Stowed	On	N/A	N/A
31	225	Rear	Upright	In-use	On	N/A	N/A
32	225	Rear	Upright	Stowed	On	N/A	N/A
33	225	Rear	Down	In-use	N/A	On	N/A
34	225	Rear	Down	Stowed	N/A	On	N/A
35	225	Rear	Upright	In-use	N/A	On	N/A
36	225	Rear	Upright	Stowed	N/A	On	N/A

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ³ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
37	Belted	Forward ⁵	Down	In-use	None	N/A	Not done
38	Belted	Forward ⁵	Down	Stowed	None	N/A	Suppressed
39	Belted	Forward ⁵	Upright	In-use	None	N/A	Not done
40	Belted	Forward ⁵	Upright	Stowed	None	N/A	Not done
41	Belted	Forward ⁵	Down	In-use	On	N/A	Not done
42	Belted	Forward ⁵	Down	Stowed	On	N/A	Not done
43	Belted	Forward ⁵	Upright	In-use	On	N/A	Not done
44	Belted	Forward ⁵	Upright	Stowed	On	N/A	Not done
45	Belted	Forward ⁵	Down	In-use	N/A	On	Not done
46	Belted	Forward ⁵	Down	Stowed	N/A	On	Not done
47	Belted	Forward ⁵	Upright	In-use	N/A	On	Not done
48	Belted	Forward ⁵	Upright	Stowed	N/A	On	Not done
49	Unbelted	Forward	Down	In-use	None	N/A	Not done
50	Unbelted	Forward	Down	Stowed	None	N/A	Suppressed
51	Unbelted	Forward	Upright	In-use	None	N/A	Not done
52	Unbelted	Forward	Upright	Stowed	None	N/A	Not done
53	Unbelted	Forward	Down	In-use	On	N/A	Not done
54	Unbelted	Forward	Down	Stowed	On	N/A	Not done
55	Unbelted	Forward	Upright	In-use	On	N/A	Not done
56	Unbelted	Forward	Upright	Stowed	On	N/A	Not done
57	Unbelted	Forward	Down	In-use	N/A	On	Not done
58	Unbelted	Forward	Down	Stowed	N/A	On	Not done
59	Unbelted	Forward	Upright	In-use	N/A	On	Not done
60	Unbelted	Forward	Upright	Stowed	N/A	On	Not done
61	225	Forward ⁵	Down	In-use	None	N/A	N/A
62	225	Forward ⁵	Down	Stowed	None	N/A	N/A
63	225	Forward ⁵	Upright	In-use	None	N/A	N/A
64	225	Forward ⁵	Upright	Stowed	None	N/A	N/A
65	225	Forward ⁵	Down	In-use	On	N/A	N/A
66	225	Forward ⁵	Down	Stowed	On	N/A	N/A
67	225	Forward ⁵	Upright	In-use	On	N/A	N/A
68	225	Forward ⁵	Upright	Stowed	On	N/A	N/A
69	225	Forward ⁵	Down	In-use	N/A	On	N/A
70	225	Forward ⁵	Down	Stowed	N/A	On	N/A
71	225	Forward ⁵	Upright	In-use	N/A	On	N/A
72	225	Forward ⁵	Upright	Stowed	N/A	On	N/A

- 1 If there is no handle, place N/A in the Suppressed/FAIL column in the rows marked "Upright."
"Down" means the child restraint manufacturer's recommended position or there is no handle.
- 2 If there is no sunshield, place N/A in the Suppressed/FAIL column in the rows marked "In-use."
- 3 Blanket position 1 (S20.1.5(a)): Place a blanket on the child restraint so that the top and side edges of the restraint are covered. The vehicle seat shall not support the blanket.
- 4 Blanket position 2 (S20.1.5(b)): Place a blanket on the child restraint so that it rests on the top of the vehicle's seat back and the forward most (towards the instrument panel) edge of the child restraint.
- 5 Convertible restraints ONLY (S20.2.1.5) (Appendix A, section C)

Record the weight of the blanket. (Cannot be more than 1 kg (2.2 lb).) 0.3 kg
(S20.1.5)

Comments (Record any position readjustments or problems by first stating the row number to which the comment applies.

Row 2: The seat belt tension was 131.2 N for belted positions.

Row 2: The seat position was 69.8 mm rear of the foremost position because of restraint contact with the instrument panel.

Row 14: The seat position was 104.7 mm rear of foremost because of restraint contact with the instrument panel.

Row 38: The seat belt tension was 120.1 N for belted positions.

Row 50: The seat position was 6.3 mm rear of foremost because of restraint contact with the instrument panel.

RESULTS FROM DATA SHEET 14
Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20)

NHTSA No. C30103 Test Date: 10/11/02
 Laboratory: VRTC Test Technician(s): C. Case, B. Smith, G. Fout
 Child Restraint Name, Model, Date of Manufacture: Century Encore
 Base: On Off ☒ N/A-Restraint does not have a removable base
 Seat Position: ☒ Rearmost, mid-height Mid-position, mid-height Foremost, mid-height

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ³ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
1	Belted	Rear	Down	In-use	None	N/A	Not done
2	Belted	Rear	Down	Stowed	None	N/A	Suppressed
3	Belted	Rear	Upright	In use	None	N/A	Not done
4	Belted	Rear	Upright	Stowed	None	N/A	Not done
5	Belted	Rear	Down	In-use	On	N/A	Not done
6	Belted	Rear	Down	Stowed	On	N/A	Not done
7	Belted	Rear	Upright	In-use	On	N/A	Not done
8	Belted	Rear	Upright	Stowed	On	N/A	Not done
9	Belted	Rear	Down	In-use	N/A	On	Not done
10	Belted	Rear	Down	Stowed	N/A	On	Not done
11	Belted	Rear	Upright	In-use	N/A	On	Not done
12	Belted	Rear	Upright	Stowed	N/A	On	Not done
13	Unbelted	Rear	Down	In-use	None	N/A	Not done
14	Unbelted	Rear	Down	Stowed	None	N/A	Suppressed
15	Unbelted	Rear	Upright	In-use	None	N/A	Not done
16	Unbelted	Rear	Upright	Stowed	None	N/A	Not done
17	Unbelted	Rear	Down	In use	On	N/A	Not done
18	Unbelted	Rear	Down	Stowed	On	N/A	Not done
19	Unbelted	Rear	Upright	In-use	On	N/A	Not done
20	Unbelted	Rear	Upright	Stowed	On	N/A	Not done
21	Unbelted	Rear	Down	In-use	N/A	On	Not done
22	Unbelted	Rear	Down	Stowed	N/A	On	Not done
23	Unbelted	Rear	Upright	In-use	N/A	On	Not done
24	Unbelted	Rear	Upright	Stowed	N/A	On	Not done
25	225	Rear	Down	In-use	None	N/A	N/A
26	225	Rear	Down	Stowed	None	N/A	N/A
27	225	Rear	Upright	In-use	None	N/A	N/A
28	225	Rear	Upright	Stowed	None	N/A	N/A
29	225	Rear	Down	In-use	On	N/A	N/A
30	225	Rear	Down	Stowed	On	N/A	N/A
31	225	Rear	Upright	In-use	On	N/A	N/A
32	225	Rear	Upright	Stowed	On	N/A	N/A
33	225	Rear	Down	In-use	N/A	On	N/A
34	225	Rear	Down	Stowed	N/A	On	N/A
35	225	Rear	Upright	In-use	N/A	On	N/A
36	225	Rear	Upright	Stowed	N/A	On	N/A

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
37	Belted	Forward ⁵	Down	In-use	None	N/A	Not done
38	Belted	Forward ⁵	Down	Stowed	None	N/A	Suppressed
39	Belted	Forward ⁵	Upright	In-use	None	N/A	Not done
40	Belted	Forward ⁵	Upright	Stowed	None	N/A	Not done
41	Belted	Forward ⁵	Down	In-use	On	N/A	Not done
42	Belted	Forward ⁵	Down	Stowed	On	N/A	Not done
43	Belted	Forward ⁵	Upright	In-use	On	N/A	Not done
44	Belted	Forward ⁵	Upright	Stowed	On	N/A	Not done
45	Belted	Forward ⁵	Down	In-use	N/A	On	Not done
46	Belted	Forward ⁵	Down	Stowed	N/A	On	Not done
47	Belted	Forward ⁵	Upright	In-use	N/A	On	Not done
48	Belted	Forward ⁵	Upright	Stowed	N/A	On	Not done
49	Unbelted	Forward	Down	In-use	None	N/A	Not done
50	Unbelted	Forward	Down	Stowed	None	N/A	Suppressed
51	Unbelted	Forward	Upright	In-use	None	N/A	Not done
52	Unbelted	Forward	Upright	Stowed	None	N/A	Not done
53	Unbelted	Forward	Down	In-use	On	N/A	Not done
54	Unbelted	Forward	Down	Stowed	On	N/A	Not done
55	Unbelted	Forward	Upright	In-use	On	N/A	Not done
56	Unbelted	Forward	Upright	Stowed	On	N/A	Not done
57	Unbelted	Forward	Down	In-use	N/A	On	Not done
58	Unbelted	Forward	Down	Stowed	N/A	On	Not done
59	Unbelted	Forward	Upright	In-use	N/A	On	Not done
60	Unbelted	Forward	Upright	Stowed	N/A	On	Not done
61	225	Forward ⁵	Down	In-use	None	N/A	N/A
62	225	Forward ⁵	Down	Stowed	None	N/A	N/A
63	225	Forward ⁵	Upright	In-use	None	N/A	N/A
64	225	Forward ⁵	Upright	Stowed	None	N/A	N/A
65	225	Forward ⁵	Down	In-use	On	N/A	N/A
66	225	Forward ⁵	Down	Stowed	On	N/A	N/A
67	225	Forward ⁵	Upright	In-use	On	N/A	N/A
68	225	Forward ⁵	Upright	Stowed	On	N/A	N/A
69	225	Forward ⁵	Down	In-use	N/A	On	N/A
70	225	Forward ⁵	Down	Stowed	N/A	On	N/A
71	225	Forward ⁵	Upright	In-use	N/A	On	N/A
72	225	Forward ⁵	Upright	Stowed	N/A	On	N/A

- 1 If there is no handle, place N/A in the Suppressed/FAIL column in the rows marked "Upright." "Down" means the child restraint manufacturer's recommended position or there is no handle.
- 2 If there is no sunshield, place N/A in the Suppressed/FAIL column in the rows marked "In-use."
- 3 Blanket position 1 (S20.1.5(a)): Place a blanket on the child restraint so that the top and side edges of the restraint are covered. The vehicle seat shall not support the blanket.
- 4 Blanket position 2 (S20.1.5(b)): Place a blanket on the child restraint so that it rests on the top of the vehicle's seat back and the forward most (towards the instrument panel) edge of the child restraint.
- 5 Convertible restraints ONLY (S20.2.1.5) (Appendix A, section C)

Record the weight of the blanket. (Cannot be more than 1 kg (2.2 lb).) 0.3 kg
(S20.1.5)

Comments (Record any position readjustments or problems by first stating the row number to which the comment applies.

Rows 2: The seat belt tension was 131.2 N for belted position.

Rows 38: The seat belt tension was 120.1 N for belted position.

RESULTS FROM DATA SHEET 14
Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20)

NHTSA No. C30103 Test Date: 10/11/02
 Laboratory: VRTC Test Technician(s): C. Case, B. Smith, G. Fout
 Child Restraint Name, Model, Date of Manufacture: Evenflo Medallion
 Base: On Off X N/A-Restraint does not have a removable base
 Seat Position: X Rearmost, mid-height Mid-position, mid-height Foremost, mid-height

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ³ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
1	Belted	Rear	Down	In-use	None	N/A	Not done
2	Belted	Rear	Down	Stowed	None	N/A	Suppressed
3	Belted	Rear	Upright	In-use	None	N/A	Not done
4	Belted	Rear	Upright	Stowed	None	N/A	Not done
5	Belted	Rear	Down	In-use	On	N/A	Not done
6	Belted	Rear	Down	Stowed	On	N/A	Not done
7	Belted	Rear	Upright	In-use	On	N/A	Not done
8	Belted	Rear	Upright	Stowed	On	N/A	Not done
9	Belted	Rear	Down	In-use	N/A	On	Not done
10	Belted	Rear	Down	Stowed	N/A	On	Not done
11	Belted	Rear	Upright	In-use	N/A	On	Not done
12	Belted	Rear	Upright	Stowed	N/A	On	Not done
13	Unbelted	Rear	Down	In-use	None	N/A	Not done
14	Unbelted	Rear	Down	Stowed	None	N/A	Suppressed
15	Unbelted	Rear	Upright	In-use	None	N/A	Not done
16	Unbelted	Rear	Upright	Stowed	None	N/A	Not done
17	Unbelted	Rear	Down	In-use	On	N/A	Not done
18	Unbelted	Rear	Down	Stowed	On	N/A	Not done
19	Unbelted	Rear	Upright	In-use	On	N/A	Not done
20	Unbelted	Rear	Upright	Stowed	On	N/A	Not done
21	Unbelted	Rear	Down	In-use	N/A	On	Not done
22	Unbelted	Rear	Down	Stowed	N/A	On	Not done
23	Unbelted	Rear	Upright	In-use	N/A	On	Not done
24	Unbelted	Rear	Upright	Stowed	N/A	On	Not done
25	225	Rear	Down	In-use	None	N/A	N/A
26	225	Rear	Down	Stowed	None	N/A	N/A
27	225	Rear	Upright	In-use	None	N/A	N/A
28	225	Rear	Upright	Stowed	None	N/A	N/A
29	225	Rear	Down	In-use	On	N/A	N/A
30	225	Rear	Down	Stowed	On	N/A	N/A
31	225	Rear	Upright	In-use	On	N/A	N/A
32	225	Rear	Upright	Stowed	On	N/A	N/A
33	225	Rear	Down	In-use	N/A	On	N/A
34	225	Rear	Down	Stowed	N/A	On	N/A
35	225	Rear	Upright	In-use	N/A	On	N/A
36	225	Rear	Upright	Stowed	N/A	On	N/A

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
37	Belted	Forward ⁵	Down	In-use	None	N/A	Not done
38	Belted	Forward ⁵	Down	Stowed	None	N/A	Suppressed
39	Belted	Forward ⁵	Upright	In-use	None	N/A	Not done
40	Belted	Forward ⁵	Upright	Stowed	None	N/A	Not done
41	Belted	Forward ⁵	Down	In-use	On	N/A	Not done
42	Belted	Forward ⁵	Down	Stowed	On	N/A	Not done
43	Belted	Forward ⁵	Upright	In-use	On	N/A	Not done
44	Belted	Forward ⁵	Upright	Stowed	On	N/A	Not done
45	Belted	Forward ⁵	Down	In-use	N/A	On	Not done
46	Belted	Forward ⁵	Down	Stowed	N/A	On	Not done
47	Belted	Forward ⁵	Upright	In-use	N/A	On	Not done
48	Belted	Forward ⁵	Upright	Stowed	N/A	On	Not done
49	Unbelted	Forward	Down	In-use	None	N/A	Not done
50	Unbelted	Forward	Down	Stowed	None	N/A	Suppressed
51	Unbelted	Forward	Upright	In-use	None	N/A	Not done
52	Unbelted	Forward	Upright	Stowed	None	N/A	Not done
53	Unbelted	Forward	Down	In-use	On	N/A	Not done
54	Unbelted	Forward	Down	Stowed	On	N/A	Not done
55	Unbelted	Forward	Upright	In-use	On	N/A	Not done
56	Unbelted	Forward	Upright	Stowed	On	N/A	Not done
57	Unbelted	Forward	Down	In-use	N/A	On	Not done
58	Unbelted	Forward	Down	Stowed	N/A	On	Not done
59	Unbelted	Forward	Upright	In-use	N/A	On	N/A
60	Unbelted	Forward	Upright	Stowed	N/A	On	N/A
61	225	Forward ⁵	Down	In-use	None	N/A	N/A
62	225	Forward ⁵	Down	Stowed	None	N/A	N/A
63	225	Forward ⁵	Upright	In-use	None	N/A	N/A
64	225	Forward ⁵	Upright	Stowed	None	N/A	N/A
65	225	Forward ⁵	Down	In-use	On	N/A	N/A
66	225	Forward ⁵	Down	Stowed	On	N/A	N/A
67	225	Forward ⁵	Upright	In-use	On	N/A	N/A
68	225	Forward ⁵	Upright	Stowed	On	N/A	N/A
69	225	Forward ⁵	Down	In-use	N/A	On	N/A
70	225	Forward ⁵	Down	Stowed	N/A	On	N/A
71	225	Forward ⁵	Upright	In-use	N/A	On	N/A
72	225	Forward ⁵	Upright	Stowed	N/A	On	N/A

- 1 If there is no handle, place N/A in the Suppressed/FAIL column in the rows marked "Upright."
- 2 "Down" means the child restraint manufacturer's recommended position or there is no handle.
- 3 Blanket position 1 (S20.1.5(a)): Place a blanket on the child restraint so that the top and side edges of the restraint are covered. The vehicle seat shall not support the blanket.
- 4 Blanket position 2 (S20.1.5(b)): Place a blanket on the child restraint so that it rests on the top of the vehicle's seat back and the forward most (towards the instrument panel) edge of the child restraint.
- 5 Convertible restraints ONI Y (S20.2.1.5) (Appendix A, section C)

Record the weight of the blanket. (Cannot be more than 1 kg (2.2 lb).) 0.3 kg
(S20.1.5)

Comments (Record any position readjustments or problems by first stating the row number to which the comment applies.

Row 2: The seat belt tension was 121.4 N for belted position.

Row 38: The seat belt tension was 130.7 N for belted position.

RESULTS FROM DATA SHEET 14

Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20)

NHTSA No. C30103

Test Date: 10/11/02

Laboratory: VRTC

Test Technician(s): C. Case, B. Smith, G. Fout

Child Restraint Name, Model, Date of Manufacture: Evenflo Medallion

Base: On Off X N/A-Restraint does not have a removable base

Seat Position: Rearmost, mid-height X Mid-position, mid-height Foremost, mid-height

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing Rear	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
1	Belted	Rear	Down	In-use	None	N/A	Not done
2	Belted	Rear	Down	Stowed	None	N/A	Suppressed
3	Belted	Rear	Upright	In-use	None	N/A	Not done
4	Belted	Rear	Upright	Stowed	None	N/A	Not done
5	Belted	Rear	Down	In-use	On	N/A	Not done
6	Belted	Rear	Down	Stowed	On	N/A	Not done
7	Belted	Rear	Upright	In-use	On	N/A	Not done
8	Belted	Rear	Upright	Stowed	On	N/A	Not done
9	Belted	Rear	Down	In-use	N/A	On	Not done
10	Belted	Rear	Down	Stowed	N/A	On	Not done
11	Belted	Rear	Upright	In-use	N/A	On	Not done
12	Belted	Rear	Upright	Stowed	N/A	On	Not done
13	Unbelted	Rear	Down	In-use	None	N/A	Not done
14	Unbelted	Rear	Down	Stowed	None	N/A	Suppressed
15	Unbelted	Rear	Upright	In-use	None	N/A	Not done
16	Unbelted	Rear	Upright	Stowed	None	N/A	Not done
17	Unbelted	Rear	Down	In-use	On	N/A	Not done
18	Unbelted	Rear	Down	Stowed	On	N/A	Not done
19	Unbelted	Rear	Upright	In-use	On	N/A	Not done
20	Unbelted	Rear	Upright	Stowed	On	N/A	Not done
21	Unbelted	Rear	Down	In-use	N/A	On	Not done
22	Unbelted	Rear	Down	Stowed	N/A	On	Not done
23	Unbelted	Rear	Upright	In-use	N/A	On	Not done
24	Unbelted	Rear	Upright	Stowed	N/A	On	Not done
25	225	Rear	Down	In-use	None	N/A	N/A
26	225	Rear	Down	Stowed	None	N/A	N/A
27	225	Rear	Upright	In-use	None	N/A	N/A
28	225	Rear	Upright	Stowed	None	N/A	N/A
29	225	Rear	Down	In-use	On	N/A	N/A
30	225	Rear	Down	Stowed	On	N/A	N/A
31	225	Rear	Upright	In-use	On	N/A	N/A
32	225	Rear	Upright	Stowed	On	N/A	N/A
33	225	Rear	Down	In-use	N/A	On	N/A
34	225	Rear	Down	Stowed	N/A	On	N/A
35	225	Rear	Upright	In-use	N/A	On	N/A
36	225	Rear	Upright	Stowed	N/A	On	N/A

	Belted, Unbelted, FMVSS 225	Rear facing. Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
37	Belted	Forward ⁵	Down	In-use	None	N/A	Not done
38	Belted	Forward ⁵	Down	Stowed	None	N/A	Suppressed
39	Belted	Forward ⁵	Upright	In-use	None	N/A	Not done
40	Belted	Forward ⁵	Upright	Stowed	None	N/A	Not done
41	Belted	Forward ⁵	Down	In-use	On	N/A	Not done
42	Belted	Forward ⁵	Down	Stowed	On	N/A	Not done
43	Belted	Forward ⁵	Upright	In-use	On	N/A	Not done
44	Belted	Forward ⁵	Upright	Stowed	On	N/A	Not done
45	Belted	Forward ⁵	Down	In-use	N/A	On	Not done
46	Belted	Forward ⁵	Down	Stowed	N/A	On	Not done
47	Belted	Forward ⁵	Upright	In-use	N/A	On	Not done
48	Belted	Forward ⁵	Upright	Stowed	N/A	On	Not done
49	Unbelted	Forward	Down	In-use	None	N/A	Not done
50	Unbelted	Forward	Down	Stowed	None	N/A	Suppressed
51	Unbelted	Forward	Upright	In-use	None	N/A	Not done
52	Unbelted	Forward	Upright	Stowed	None	N/A	Not done
53	Unbelted	Forward	Down	In-use	On	N/A	Not done
54	Unbelted	Forward	Down	Stowed	On	N/A	Not done
55	Unbelted	Forward	Upright	In-use	On	N/A	Not done
56	Unbelted	Forward	Upright	Stowed	On	N/A	Not done
57	Unbelted	Forward	Down	In-use	N/A	On	Not done
58	Unbelted	Forward	Down	Stowed	N/A	On	Not done
59	Unbelted	Forward	Upright	In-use	N/A	On	Not done
60	Unbelted	Forward	Upright	Stowed	N/A	On	Not done
61	225	Forward ⁵	Down	In-use	None	N/A	N/A
62	225	Forward ⁵	Down	Stowed	None	N/A	N/A
63	225	Forward ⁵	Upright	In-use	None	N/A	N/A
64	225	Forward ⁵	Upright	Stowed	None	N/A	N/A
65	225	Forward ⁵	Down	In-use	On	N/A	N/A
66	225	Forward ⁵	Down	Stowed	On	N/A	N/A
67	225	Forward ⁵	Upright	In-use	On	N/A	N/A
68	225	Forward ⁵	Upright	Stowed	On	N/A	N/A
69	225	Forward ⁵	Down	In-use	N/A	On	N/A
70	225	Forward ⁵	Down	Stowed	N/A	On	N/A
71	225	Forward ⁵	Upright	In-use	N/A	On	N/A
72	225	Forward ⁵	Upright	Stowed	N/A	On	N/A

- 1 If there is no handle, place N/A in the Suppressed/FAIL column in the rows marked "Upright."
"Down" means the child restraint manufacturer's recommended position or there is no handle.
- 2 If there is no sunshield, place N/A in the Suppressed/FAIL column in the rows marked "In-use."
- 3 Blanket position 1 (S20.1.5(a)): Place a blanket on the child restraint so that the top and side edges of the restraint are covered. The vehicle seat shall not support the blanket.
- 4 Blanket position 2 (S20.1.5(b)): Place a blanket on the child restraint so that it rests on the top of the vehicle's seat back and the forward most (towards the instrument panel) edge of the child restraint.
- 5 Convertible restraints ONLY (S20.2.1.5) (Appendix A, section C)

Record the weight of the blanket. (Cannot be more than 1 kg (2.2 lb).) 0.3 kg
(S20.1.5)

Comments (Record any position readjustments or problems by first stating the row number to which the comment applies.

Rows 2: The seat belt tension was 121.4 N for belted position.

Rows 38: The seat belt tension was 130.8 N for belted position.

RESULTS FROM DATA SHEET 14

Suppression Test Using 12-month-old CRABI Dummy (Part 572, Subpart N)(S20)

NHTSA No. C30103

Test Date: 10/11/02

Laboratory: VRTC

Test Technician(s): C. Case, B. Smith, G. Fout

Child Restraint Name, Model, Date of Manufacture: Evenflo Medallion

Base: On Off X N/A-Restraint does not have a removable base

Seat Position: Rearmost, mid-height Mid-position, mid-height X Foremost, mid-height

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
1	Belted	Rear	Down	In-use	None	N/A	Not done
2	Belted	Rear	Down	Stowed	None	N/A	Suppressed
3	Belted	Rear	Upright	In-use	None	N/A	Not done
4	Belted	Rear	Upright	Stowed	None	N/A	Not done
5	Belted	Rear	Down	In-use	On	N/A	Not done
6	Belted	Rear	Down	Stowed	On	N/A	Not done
7	Belted	Rear	Upright	In-use	On	N/A	Not done
8	Belted	Rear	Upright	Stowed	On	N/A	Not done
9	Belted	Rear	Down	In-use	N/A	On	Not done
10	Belted	Rear	Down	Stowed	N/A	On	Not done
11	Belted	Rear	Upright	In-use	N/A	On	Not done
12	Belted	Rear	Upright	Stowed	N/A	On	Not done
13	Unbelted	Rear	Down	In-use	None	N/A	Not done
14	Unbelted	Rear	Down	Stowed	None	N/A	Suppressed
15	Unbelted	Rear	Upright	In-use	None	N/A	Not done
16	Unbelted	Rear	Upright	Stowed	None	N/A	Not done
17	Unbelted	Rear	Down	In-use	On	N/A	Not done
18	Unbelted	Rear	Down	Stowed	On	N/A	Not done
19	Unbelted	Rear	Upright	In-use	On	N/A	Not done
20	Unbelted	Rear	Upright	Stowed	On	N/A	Not done
21	Unbelted	Rear	Down	In-use	N/A	On	Not done
22	Unbelted	Rear	Down	Stowed	N/A	On	Not done
23	Unbelted	Rear	Upright	In-use	N/A	On	Not done
24	Unbelted	Rear	Upright	Stowed	N/A	On	Not done
25	225	Rear	Down	In-use	None	N/A	N/A
26	225	Rear	Down	Stowed	None	N/A	N/A
27	225	Rear	Upright	In-use	None	N/A	N/A
28	225	Rear	Upright	Stowed	None	N/A	N/A
29	225	Rear	Down	In-use	On	N/A	N/A
30	225	Rear	Down	Stowed	On	N/A	N/A
31	225	Rear	Upright	In-use	On	N/A	N/A
32	225	Rear	Upright	Stowed	On	N/A	N/A
33	225	Rear	Down	In-use	N/A	On	N/A
34	225	Rear	Down	Stowed	N/A	On	N/A
35	225	Rear	Upright	In-use	N/A	On	N/A
36	225	Rear	Upright	Stowed	N/A	On	N/A

	Belted, Unbelted, FMVSS 225	Rear facing, Forward facing	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
37	Belted	Forward ⁵	Down	In-use	None	N/A	Not done
38	Belted	Forward ⁵	Down	Stowed	None	N/A	Suppressed
39	Belted	Forward ⁵	Upright	In-use	None	N/A	Not done
40	Belted	Forward ⁵	Upright	Stowed	None	N/A	Not done
41	Belted	Forward ⁵	Down	In-use	On	N/A	Not done
42	Belted	Forward ⁵	Down	Stowed	On	N/A	Not done
43	Belted	Forward ⁵	Upright	In-use	On	N/A	Not done
44	Belted	Forward ⁵	Upright	Stowed	On	N/A	Not done
45	Belted	Forward ⁵	Down	In-use	N/A	On	Not done
46	Belted	Forward ⁵	Down	Stowed	N/A	On	Not done
47	Belted	Forward ⁵	Upright	In-use	N/A	On	Not done
48	Belted	Forward ⁵	Upright	Stowed	N/A	On	Not done
49	Unbelted	Forward	Down	In-use	None	N/A	Not done
50	Unbelted	Forward	Down	Stowed	None	N/A	Suppressed
51	Unbelted	Forward	Upright	In-use	None	N/A	Not done
52	Unbelted	Forward	Upright	Stowed	None	N/A	Not done
53	Unbelted	Forward	Down	In-use	On	N/A	Not done
54	Unbelted	Forward	Down	Stowed	On	N/A	Not done
55	Unbelted	Forward	Upright	In-use	On	N/A	Not done
56	Unbelted	Forward	Upright	Stowed	On	N/A	Not done
57	Unbelted	Forward	Down	In-use	N/A	On	Not done
58	Unbelted	Forward	Down	Stowed	N/A	On	Not done
59	Unbelted	Forward	Upright	In-use	N/A	On	Not done
60	Unbelted	Forward	Upright	Stowed	N/A	On	Not done
61	225	Forward ⁵	Down	In-use	None	N/A	N/A
62	225	Forward ⁵	Down	Stowed	None	N/A	N/A
63	225	Forward ⁵	Upright	In-use	None	N/A	N/A
64	225	Forward ⁵	Upright	Stowed	None	N/A	N/A
65	225	Forward ⁵	Down	In-use	On	N/A	N/A
66	225	Forward ⁵	Down	Stowed	On	N/A	N/A
67	225	Forward ⁵	Upright	In-use	On	N/A	N/A
68	225	Forward ⁵	Upright	Stowed	On	N/A	N/A
69	225	Forward ⁵	Down	In-use	N/A	On	N/A
70	225	Forward ⁵	Down	Stowed	N/A	On	N/A
71	225	Forward ⁵	Upright	In-use	N/A	On	N/A
72	225	Forward ⁵	Upright	Stowed	N/A	On	N/A

- 1 If there is no handle, place N/A in the Suppressed/FAIL column in the rows marked "Upright."
"Down" means the child restraint manufacturer's recommended position or there is no handle.
- 2 If there is no sunshield, place N/A in the Suppressed/FAIL column in the rows marked "In-use."
- 3 Blanket position 1 (S20.1.5(a)): Place a blanket on the child restraint so that the top and side edges of the restraint are covered. The vehicle seat shall not support the blanket.
- 4 Blanket position 2 (S20.1.5(b)): Place a blanket on the child restraint so that it rests on the top of the vehicle's seat back and the forward most (towards the instrument panel) edge of the child restraint.
- 5 Convertible restraints ONLY (S20.2.1.5) (Appendix A, section C)

Record the weight of the blanket. (Cannot be more than 1 kg (2.2 lb).) . . . 0.3 kg
(S20.1.5)

Comments (Record any position readjustments or problems by first stating the row number to which the comment applies.

Row 2: The seat belt tension was 121.4 N for belted position.

Row 38: The seat belt tension was 120.8 N for belted position.

Row 2: The seat position was 3.1 mm rear of foremost because of restraint contact with the instrument panel.

Row 14: The seat position was 44.4 mm rear of foremost because of restraint contact with the instrument panel.

RESULTS FROM DATA SHEET 15

Suppression Test Using Newborn Infant Dummy (Part 572, Subpart K)(S20)

(Car beds listed in Appendix A, section A)

NHTSA No. C30103 Test Date: 10/09/02

Laboratory: VRTC Test Technician(s): B. Smith, G. Fcut, C. Case

Car Bed Name, Model, and Manufacture Date: Cosco Dream Rice

Base: On Off N/A-Restraint does not have a removable base

Seat Position: Rearmost, mid-height Mid-position, mid-height X Foremost, mid-height

This restraint will not fit into the vehicle.

	Belted, FMVSS 225	Handle ¹ (S20.1.3)	Sunshield ² (S20.1.4)	Blanket ³ Position 1 (S20.1.5(a))	Blanket ⁴ Position 2 (S20.1.5(b))	Suppressed, FAIL, Or N/A
1	Belted	Down	Fully Open	None	N/A	Not done
2	Belted	Down	Fully Closed	None	N/A	Not done
3	Belted	Upright	Fully Open	None	N/A	Not done
4	Belted	Upright	Fully Closed	None	N/A	Not done
5	Belted	Down	Fully Open	On	N/A	Not done
6	Belted	Down	Fully Closed	On	N/A	Not done
7	Belted	Upright	Fully Open	On	N/A	Not done
8	Belted	Upright	Fully Closed	On	N/A	Not done
9	Belted	Down	Fully Open	N/A	On	Not done
10	Belted	Down	Fully Closed	N/A	On	Not done
11	Belted	Upright	Fully Open	N/A	On	Not done
12	Belted	Upright	Fully Closed	N/A	On	Not done
13	225	Down	Fully Open	None	N/A	N/A
14	225	Down	Fully Closed	None	N/A	N/A
15	225	Upright	Fully Open	None	N/A	N/A
16	225	Upright	Fully Closed	None	N/A	N/A
17	225	Down	Fully Open	On	N/A	N/A
18	225	Down	Fully Closed	On	N/A	N/A
19	225	Upright	Fully Open	On	N/A	N/A
20	225	Upright	Fully Closed	On	N/A	N/A
21	225	Down	Fully Open	N/A	On	N/A
22	225	Down	Fully Closed	N/A	On	N/A
23	225	Upright	Fully Open	N/A	On	N/A
24	225	Upright	Fully Closed	N/A	On	N/A

1 If there is no handle, place N/A in the Suppressed /FAIL column in the rows marked "Upright." "Down," means the car bed manufacturer's recommended position or there is no handle.

2 If there is no sunshield, place N/A in the Suppressed/FAIL column in the rows marked "In-use."

3 Blanket position 1 (S20.1.5 (a)): Place a blanket on the car bed so that all edges of the restraint are covered. The vehicle seat shall not support the blanket.

4 Blanket position 2 (S20.1.5 (b)): Place a blanket on the car bed so that it rests on the top of the vehicle's seat back and the forward most (towards the instrument panel) edge of the car bed.

Record the weight of the blanket. (Cannot be more than 1 kg (2.2 lb).) _____
(S20.1.5)

Comments (Record any position readjustments or problems by first stating the row number to which the comment applies:

DATA SHEET 25

Test of Reactivation of the Passenger Air Bag System with an
Unbelted 5th Percentile Female Dummy (S20.3, 22.3, S24.3)

NHTSA No. C30103

Test Date: 10/11/02

Laboratory: VRTC Test Technician(s): C. Case, G. Fout

Seat Position: ☒ Full rearward ☐ Mid position ☐ Full forward (Use a separate sheet for each of the three fore-aft positions tested.) (S20.3.1, 22.3.1, S24.3.1)

Do NOT use seat belts for these tests.

- ☒ 1. This reactivation test is being performed after the following suppression test:
- ☒ Suppression Test Using 12-Month-Old CRABI Dummy (S20)
After section 5 of the data sheet (This was performed after all the belted suppression tests on the Britax Handle with Care in the rear, mid, and forward positions.)
 - ☐ Suppression Test Using Newborn Infant Dummy (S20)
After section of the data sheet
 - ☐ Suppression Test Using 3-Year-Old Dummy and Booster Seats (S22)
After section of the data sheet
 - ☐ Suppression Test Using 3-Year-Old Dummy and Forward Facing Convertible Child Restraints (S22)
After section 1 of the data sheet
 - ☐ Suppression Test Using an Unbelted 3-Year-Old Dummy (S22)
After section of the data sheet
 - ☐ Suppression Test Using 6 Year-Old-Dummy and Booster Seats (S24.2.1)
After section of the data sheet
 - ☐ Suppression Test Using 6 Year-Old-Dummy (S24.2.1)
After section of the data sheet
- ☒ 2. Leave the seat in the position used for the suppression test. (Do NOT recline the seat back as it would be for positioning for a crash test.)
- ☒ 3. 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)
- ☒ 4. Position the dummy midsagittal plane vertical and coincident with the seating position centerline. (S16.3.3.1.3 or S16.3.3.1.4)
- ☒ 5. Hold down the dummy's thighs and push rearward on the upper torso to maximize the pelvic angle. (S16.3.3.1.5)
- ☒ 6. Set the angle between the legs and the thighs to 120 degrees. (S16.3.3.1.6)
- ☒ 7. 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 seat centerline. (S16.3.3.1.6)
Record Knee Separation 165.1 mm
- ☒ 8. 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.
☒ Calves contacted seat cushion.
- ☒ 9. Gently rock the upper torso +/- 5 degrees (approximately 51 mm (2 inches)) side to side three times to reduce the friction between the dummy and the seat. (S16.3.3.1.7)
- ☒ 10. 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)
- ☒ 11. 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 which does not cause dummy contact. (S16.3.3.1.8)
☒ N/A No contact
☐ Dummy contact. Clearance set at maximum of 5mm
Measured Clearance mm
Dummy Contact. Seat set at nearest detent position.

- Seat position ____ detent positions rearward of full forward
(full forward is position zero)
- ☒ 12. Verify the pelvis is not interfering with the seat belt. (S16.3.3.1.9)
- ☒ 13. Verify the dummy abdomen is properly installed. (S16.3.3.1.9)
- ☒ 14. 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 20 degrees, minimize the angular difference. (S16.3.3.1.11)
- ☒ 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. 20.4 degrees
- ☒ 15. Check the dummy for contact with the interior after completing adjustments. (S16.3.3.1.2)
- ☒ No contact.
- ☐ Dummy in contact with interior.
- ☐ Seat moved Aft ____ mm from the previous position.
- ☐ Seat moved Aft ____ detent positions from the previous position.
- ☒ 16. Foot positioning. (Indicate final position achieved) (S16.3.3.2)
- ☐ 16.1 Place feet flat on the toe board. OR
- ☒ 16.2 If the feet will not 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
- ☐ 16.3 If the heels do not touch the floor pan, set the legs to vertical and set the feet parallel to the floor pan
- ☒ 17. Passenger arm/hand positioning. (S16.3.3.3)
- ☒ 17.1 Place the dummy's upper arms adjacent to the torso with the arm centerlines as close to a vertical longitudinal plane as possible. (S16.3.3.3.1)
- ☒ 17.2 Place the palms of the dummy in contact with the outer part of the thighs (S16.3.3.3.2)
- ☒ 17.3 Place the little fingers in contact with the seat cushion. (S16.3.3.3.3)
- ☒ 18. Start the vehicle engine or place the ignition in the "on" position, whichever will turn on the suppression system, and close all vehicle doors. (S22.2.1.7) Wait 10 seconds, and then check whether the air bag is suppressed. (S22.2.1.8)
- ☐ Air Bag Suppressed – FAIL
- ☒ Air Bag Not Suppressed – Pass
- ☒ 19. Return the ignition switch to the "off" position.

C. Case, G. Fout,

I certify that I have read and performed each instruction.

10/09/02

Date

RESULTS FROM DATA SHEET 17

Suppression Test Using 3-Year-Old Dummy (Part 572, Subpart P) and
Forward Facing Convertible Child Restraints (S22)

NHTSA No. C30103 Test Date: 10/11/02

Laboratory: VRTC Test Technician(s): B. Smith, C. Case, G. Fout

Child Restraint Name, Model, and Manufacture Date: Britax Roundabout

	Seat Belt Tension	Suppressed, Fail, Or N/A
Foremost seat position*	122.9 N	Suppressed
Mid seat position	122.9 N	Suppressed
Rearmost seat position	122.9 N	Suppressed

* 31.7 mm rear of foremost seat track position

RESULTS FROM DATA SHEET 17

Suppression Test Using 3-Year-Old Dummy (Part 572, Subpart P) and
Forward Facing Convertible Child Restraints (S22)

NHTSA No. C30103 Test Date: 10/11/02

Laboratory: VRTC Test Technician(s): B. Smith, C. Case, G. Fout

Child Restraint Name, Model, and Manufacture Date: Century Encore

	Seat Belt Tension	Suppressed, FAIL, Or N/A
Foremost seat position*	128.1 N	Suppressed
Mid seat position	128.1 N	Suppressed
Rearmost seat position	128.1 N	Suppressed

*The passenger seat was 22.2 mm rear of the foremost position because of dummy foot contact with the IP.

RESULTS FROM DATA SHEET 17

Suppression Test Using 3-Year-Old Dummy (Part 572, Subpart P) and
Forward Facing Convertible Child Restraints (S22)

NHTSA No. C30103 Test Date: 10/11/02

Laboratory: VRTC Test Technician(s): B. Smith, C. Case, G. Foul

Child Restraint Name, Model, and Manufacture Date: Evenflo Medallion

	Seat Belt Tension	Suppressed, FAIL, Or N/A
Foremost seat position*	135.2 N	Suppressed
Mid seat position	135.2 N	Suppressed
Rearmost seat position	135.2 N	Suppressed

*47.6 mm rear of foremost seat track position

RESULTS FROM DATA SHEET 16Suppression Test Using 3-Year-Old Dummy (Part 572, Subpart P) and
Booster Seats (S22)NHTSA No. C30103 Test Date: 10/11/02Laboratory: VRTC Test Technician(s): B. Smith, C. Case, G. FoutChild Restraint Name, Model, and Manufacture Date: Century Next Step

	Seat Belt Tension	Suppressed, FAIL, Or N/A
Foremost seat position	134.7 N	Suppressed
Mid seat position	134.7 N	Suppressed
Rearmost seat position	134.7 N	Suppressed
Foremost seat position*	N/A	Suppressed
Mid seat position	N/A	Suppressed
Rearmost seat position	N/A	Suppressed

* 41.2 mm rear of the foremost seat track position

RESULTS FROM DATA SHEET 16Suppression Test Using 3-Year-Old Dummy (Part 572, Subpart P) and
Booster Seats (S22)NHTSA No. C30103 Test Date: 10/11/02Laboratory: VRTC Test Technician(s): B. Smith, C. Case, G. FoutChild Restraint Name, Model, and Manufacture Date: Cosco High Back Booster

	Seat Belt Tension	Suppressed, FAIL, Or N/A
Foremost seat position	134.7 N	Suppressed
Mid seat position	134.7 N	Suppressed
Rearmost seat position	134.7 N	Suppressed
Foremost seat position*	N/A	Suppressed
Mid seat position	N/A	Suppressed
Rearmost seat position	N/A	Suppressed

* 19 mm rear of foremost seat track position

RESULTS FROM DATA SHEET 18

Suppression Tests Using an Unbelted 3-Year-Old Dummy (Part 572, Subpart P) (S22)

NHTSA No. C30103

Test Date: 10/11/02

Laboratory: VRTC

Test Technician(s): C. Case, B. Smith, G. Fout

Dummy Serial No. 038

		Foremost seat position	Mid seat position	Rearmost seat position
1	Sitting on seat with back against seat back	Suppressed	Suppressed	Suppressed
2	Sitting on seat with back against reclined seat back	Suppressed	Suppressed	Suppressed
3	Sitting on seat with back not against seat back	Suppressed	Suppressed	Suppressed
4	Sitting on seat edge, spine vertical, hands by the dummy's side	Suppressed ¹	Not done – same as foremost	Suppressed
5	Standing on seat, facing forward	Suppressed	Suppressed	Suppressed
6	Kneeling on seat facing forward	Suppressed	Suppressed	Suppressed
7	Kneeling on seat facing rearward	Suppressed	Suppressed	Suppressed
8	Lying on seat	N/A	N/A	N/A
	88.9 mm rearward of full forward			

DATA SHEET 25

Test of Reactivation of the Passenger Air Bag System with an
Unbelted 5th Percentile Female Dummy (S20.3, 22.3, S24.3)

NHTSA No. C30103

Test Date: 10/11/02

Laboratory: VRTC

Test Technician(s): C. Case, G. Fout

Seat Position: X Full rearward Mid position X Full forward (Use a separate sheet for each of the three fore-aft positions tested.) (S20.3.1, 22.3.1, S24.3.1)

Do NOT use seat belts for these tests.

- X 1. This reactivation test is being performed after the following suppression test:
- Suppression Test Using 12-Month-Old CRABI Dummy (S20)
After section of the data sheet (This was performed after all the belted suppression tests on the Britax Handle with Care in the rear, mid, and forward positions.)
Suppression Test Using Newborn Infant Dummy (S20)
After section of the data sheet
 - Suppression Test Using 3-Year-Old Dummy and Booster Seats (S22)
After section of the data sheet
 - Suppression Test Using 3-Year-Old Dummy and Forward Facing Convertible Child Restraints (S22)
After section of the data sheet
 - X Suppression Test Using an Unbelted 3-Year-Old Dummy (S22)
After section 7 of the data sheet
 - Suppression Test Using 6 Year-Old-Dummy and Booster Seats (S24.2.1)
After section of the data sheet
 - Suppression Test Using 6 Year-Old-Dummy (S24.2.1)
After section of the data sheet
- X 2. Leave the seat in the position used for the suppression test (Do NOT recline the seat back as it would be for positioning for a crash test.)
- X 3. 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 4. Position the dummy midsagittal plane vertical and coincident with the seating position centerline. (S16.3.3.1.3 or S16.3.3.1.4)
- X 5. Hold down the dummy's thighs and push rearward on the upper torso to maximize the pelvic angle. (S16.3.3.1.5)
- X 6. Set the angle between the legs and the thighs to 120 degrees. (S16.3.3.1.6)
- X 7. 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 seat centerline. (S16.3.3.1.6)
Record Knee Separation 165.1 mm
- X 8. 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 9. Gently rock the upper torso +/- 5 degrees (approximately 51 mm (2 inches)) side to side three times to reduce the friction between the dummy and the seat. (S16.3.3.1.7)
- N/A 10. 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 11. 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 which does not cause dummy contact. (S16.3.3.1.8)
X N/A No contact
 Dummy contact. Clearance set at maximum of 5mm
Measured Clearance mm
 Dummy Contact. Seat set at nearest detent position.
Seat position detent positions rearward of full forward

- (full forward is position zero)
- ☒ 12. Verify the pelvis is **not interfering with the seat bight**. (S16.3.3.1.9)
- ☒ 13. Verify the dummy abdomen is properly installed. (S16.3.3.1.9)
- ☒ 14. 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 20 degrees, minimize the angular difference. (S16.3.3.1.11)
- ☒ 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. 19.8 degrees
- ☒ 15. Check the dummy for contact with the interior after completing adjustments. (S16.3.3.1.12)
- ☒ No contact.
- ☐ Dummy in contact with interior.
- ☐ Seat moved Aft mm from the previous position.
- ☐ Seat moved Aft detent positions from the previous position.
- ☒ 16. Foot positioning. (Indicate final position achieved) (S16.3.3.2)
- ☐ 16.1 Place feet flat on the toe board. OR
- ☒ 16.2 If the feet will not 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
- ☐ 16.3 If the heels do not touch the floor pan, set the legs to vertical and set the feet parallel to the floor pan
- ☒ 17. Passenger arm/hand positioning. (S16.3.3.3)
- ☒ 17.1 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)
- ☒ 17.2 Place the palms of the dummy in contact with the outer part of the thighs (S16.3.3.3.2)
- ☒ 17.3 Place the little fingers in contact with the seat cushion (S16.3.3.3.3)
- ☒ 18. Start the vehicle engine or place the ignition in the "on" position, whichever will turn on the suppression system, and close all vehicle doors. (S22.2.1.7) Wait 10 seconds, and then check whether the air bag is suppressed. (S22.2.1.8)
- ☐ Air Bag Suppressed **FAIL**
- ☒ Air Bag Not Suppressed – Pass
- ☒ 19. Return the ignition switch to the "off" position.

C. Case, G. Fout,
I certify that I have read and performed each instruction.

10/11/02
Date

RESULTS FROM DATA SHEET 19

Suppression Test Using 6-Year-Old Dummy (Part 572, Subpart N) and
Booster Seats (S24.2.1)

NHTSA No. C30103 Test Date: 10/11/02

Laboratory: VRTC Test Technician(s): B. Smith, C. Case, G. Fout

Child Restraint Name, Model, and Manufacture Date: Centrury Next Step

	Seat Belt Tension	Suppressed, FAIL, Or N/A
Foremost seat position	N/A	Not done
Mid seat position	N/A	Not done
Rearmost seat position	N/A	Suppressed

RESULTS FROM DATA SHEET 19

Suppression Test Using 6-Year-Old Dummy (Part 572, Subpart N) and
Booster Seats (S24.2.1)

NHTSA No. C30103 Test Date: 10/11/02

Laboratory: VRTC Test Technician(s): B. Smith, C. Case, G. Fout

Child Restraint Name, Model, and Manufacture Date: Cosco High Back Booster

	Seat Belt Tension	Suppressed, FAIL, Or N/A
Foremost seat position	N/A	Not done
Mid seat position	N/A	Not done
Rearmost seat position	N/A	Suppressed

RESULTS FROM DATA SHEET 19Suppression Test Using 6-Year-Old Dummy (Part 572, Subpart N) and
Booster Seats (S24.2.1)NHTSA No. C30103 Test Date: 10/11/02Laboratory: VRTC Test Technician(s): B. Smith, C. Case, G. FoutChild Restraint Name, Model, and Manufacture Date: Evenflo Right Fit

	Seat Belt Tension	Suppressed, FAIL, Or N/A
Foremost seat position	N/A	Not done
Mld seat position	N/A	Not done
Rearmost seat position	N/A	Suppressed

RESULTS FROM DATA SHEET 20

Suppression Tests Using an Unbelted 6-Year-Old Dummy (Part 572, Subpart P) (\$22)

NHTSA No. C30103Test Date: 10/11/02Laboratory: VRTC Test Technician(s): C. Case, B. Smith, G. FoutDummy Serial No. 027

		Foremost seat position	Mid seat position	Rearmost seat position
1	Sitting on seat with back against seat back	Not done	Not done	Suppressed
2	Sitting on seat with back against reclined seat back	Not done	Not done	Suppressed
3	Sitting on seat edge, spine vertical, hands by the dummy's side	Not done	Not done	Suppressed
4	Sitting back in the seat and leaning on the right front passenger door	Not done	Not done	Suppressed

DATA SHEET 24

Low Risk Deployment Tests Using an Unbelted 5th Percentile Female
Dummy (Part 572, Subpart O) (S26)

NHTSA No. C30103 Test Date: 10/30/02

Laboratory: VRTC Test Technician(s): G. Fout, A. Loudon, B. Smith, C. Case

Dummy Serial No. 421

Reference Points and Planes. (S26)

X 1.1 Position any adjustable parts of the steering controls to the mid-position. If a mid-position adjustment is not achievable, position the controls to the next lowest detent position. (S26.2.1)

X 1.2 Position the steering wheel to the straight-ahead position. (S26.2.1)

X 1.3 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.) (S26.2.2)

X Plane E determined using manufacturer's information supplied by the COTR.
(Include manufacturer's information in the test report.)

OR

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

"Plane E" Measurement	Measured	Specified	Verify Measured equals Specified +/- 6mm
Ey (mm)			

X 1.4 Locate the horizontal plane through the geometric center of the opening through which the driver air bag deploys into the occupant compartment. This is referred to as "Plane F." (Check determination method below.) (S26.2.6)

X Plane F determined using manufacturer's information supplied by the COTR.
(Include manufacturer's information in the test report.)

OR

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

"Plane F" Measurement	Measured	Specified	Verify Measured equals Specified +/- 6mm
Fz (mm)			

X 1.5 Mark a point on the chin of the dummy 40 mm below the center of the mouth. (Chin Point) (S26.2.6)

2.0 Position 1, Chin On Module. (S26.2)
NOT PERFORMED ON THIS VEHICLE

- ___ 2.1. Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S26.2.3)
X N/A - No lumbar adjustment
- ___ 2.2. Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S26.2.3)
X N/A - No additional support adjustment
- ___ 2.3. If the seat cushion adjusts fore and aft, independent of the seat back, set this adjustment to the full rearward position. (S26.2.3)
X N/A - No independent fore-aft seat cushion adjustment
- ___ 2.4. If the seat cushion height adjusts independent of the seat back, set this adjustment to the full down position.
X N/A - No independent seat cushion height adjustment.
- ___ 2.5. If the seat cushion angle adjusts independent of the seat back, set this adjustment to the mid-point angle. (S26.2.3)
X N/A - No independent seat cushion angle adjustment.
- ___ 2.6. Put the seat in its full rearward position. (S26.2.3)
___ N/A - the seat does not have a fore-aft adjustment
- ___ 2.7. If the seat height is adjustable, put it in the mid-height position. (S26.2.3)
X N/A - No seat height adjustment
- ___ 2.8. 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. (S26.2.3 and S8.1.3)
___ N/A - No seat back angle adjustment
Manufacturer's design seat back angle _____
Tested seat back angle _____
- ___ 2.9. If adjustable, set the head restraint at the full down and full forward position. (S26.2.3 and S16.3.4.4) 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
- ___ 2.10. Position a calibrated Part 572 Subpart O 5th percentile female dummy in the driver's seat (S26.2.4)
- ___ 2.11. Position the dummy such that its midsagittal plane is coincident with Plane E. (S26.2.4.1)
- ___ 2.12. Position the dummy's legs to a vertical orientation and place the back of the legs in contact with the seat cushion. (S26.2.4.2) THE HEELS HIT THE RAISED FLOOR PAN SO THE LEGS WERE NOT QUITE VERTICAL.
- ___ 2.13. Position the dummy's thorax instrument cavity rear face 6 degrees forward (toward the front of the vehicle) of the steering wheel angle (i.e., if the steering wheel angle is 25 degrees from vertical, the thorax instrument cavity rear face angle is 31 degrees.) (S26.2.4.3.) THE STEERING WHEEL ANGLE WAS 22.9 DEGREES.
- ___ 2.14. Set the initial transverse distance between the longitudinal centerlines at the front of the dummy's knees at 160 to 170 mm (6.3 to 6.7 in), with the thighs and legs of the dummy in vertical planes. (S26.2.4.4) THE SET DISTANCE WAS 165.1 MM.
- ___ 2.15. Position the upper arms parallel to the torso, and place the hands in contact with the thighs. (S26.2.4.5)
- ___ 2.16. Move the dummy forward on the seat, maintaining the thorax instrument cavity angle, until the dummy head/torso contacts the steering wheel. (S26.2.5) Adjust the dummy legs the minimum amount necessary to ensure torso/head contact with the steering wheel when the dummy is moved forward. (S26.2.4.2)
___ Leg adjustments needed

- ___ 2.17 Adjust the dummy position vertically until Chin Point coincides with Plane F. Adjust the fore/aft position of the dummy to maintain contact with the steering wheel. If the seat prevents placing the Chin Point coincident with Plane F, adjust the dummy position to achieve the closest placement possible. The thorax cavity angle should be maintained throughout the adjustment process. (S26.2.6)

___ Chin Point Lies within Plane F. Height of Chin Point. _____ mm

___ Seat interfered with positioning. Height of Chin Point. _____ mm

- ___ 2.18 Using material with a maximum breaking strength of 311 N (70 lb) and spacer blocks. Support the dummy so that there is minimum interference with the full rotational and translational freedom for the upper torso of the dummy. The material should support the torso rather than the head and should not interfere with the airbag (S26.2.7)

___ Photograph final setup and record position.

Thorax Cavity Angle _____ degrees

Chin Point Height _____ mm

- ___ 2.19 Record the Airbag deployment and timing requirements in the chart below.

Number of stages for this test. 1

Stage No.	Firing Time (msec) *	Recorded Firing Time (msec)
1	0.0 msec (Time Zero)	
2	N/A	

* Firing time is measured from Time Zero for all stages

- ___ 2.20 Connect dummy instrumentation to the test data acquisition system and verify channel operation.
- ___ 2.21 Connect the airbag to the airbag firing system per the manufacturer's instructions, provided by the COTR.
- ___ 2.22 Prepare the high-speed video/film cameras.
- ___ 2.23 Fire the airbag per the table above and record the data from the dummy instrumentation.
- ___ 2.24 Photograph the post-test results
- ___ 2.25 Verify recorded firing times match specified firing times +/- 2 milliseconds.
- ___ 2.26 Record injury values for this test.

	FMVSS 208 Maximum Allowable Injury Assessment Value	Measured Value Dummy Serial No
HIC ₁₅	700	
Chest Acceleration	60 g	
Chest Displacement	52 mm	
Peak Nij (Ntc)	1.0	
Peak Nij (Ntf)	1.0	
Peak Nij (Ncc)	1.0	
Peak Nij (Ncf)	1.0	
Neck Tension (Fz)	2070 N	
Neck Compression (Fz)	2520 N	
Left femur	6805	
Right femur	6805	

3.0 Position 2. Chin On Rim. (S26.3)

- ☒ 3.1. Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S26.3.1)
___ 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. (S26.3.1)
___ 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. (S26.3.1)
___ 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.
☒ N/A – No independent seat cushion height adjustment.
- ___ 3.5 If the seat cushion angle adjusts independent of the seat back, set this adjustment to the mid-point angle. (S26.3.1)
☒ N/A – No independent seat cushion angle adjustment.
- ☒ 3.6. Put the seat in its full rearward position. (S26.3.1)
___ N/A – the seat does not have a fore-aft adjustment
- ☒ 3.7 If the seat height is adjustable, put it in the mid-height position. (S26.3.1)
___ N/A – No seat height adjustment
- ☒ 3.8. 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. (S26.3.1 and S8.1.3)
___ N/A – No seat back angle adjustment
- Manufacturer's design seat back angle 15.5
Tested seat back angle 15.4
- ☒ 3.9 If adjustable, set the head restraint at the full down and full forward position. (S26.3.1 and S16.3.4.4)
___ N/A – No head restraint adjustment
- ☒ 3.10 Position a calibrated Part 572 Subpart O 5th percentile female dummy in the driver's seat (S26.3.4)
- ☒ 3.11 Position the dummy such that its midsagittal plane is coincident with Plane E. (S26.3.4.1)
- ☒ 3.12 Position the dummy's legs to a vertical orientation and place the back of the legs in contact with the seat cushion. (S26.3.4.2)
- ☒ 3.13 Position the dummy's thorax instrument cavity rear face 6 degrees forward (toward the front of the vehicle) of the steering wheel angle (i.e., if the steering wheel angle is 25 degrees from vertical, the thorax instrument cavity rear face angle is 31 degrees.) (S26.3.4.3.)
- Steering wheel angle 21.9 degrees
Thorax cavity angle 51.9 degrees
- ☒ 3.14 Set the initial transverse distance between the longitudinal centerlines at the front of the dummy's knees at 160 to 170 mm (6.3 to 6.7 in), with the thighs and legs of the dummy in vertical planes. (S26.3.4.4) 165.1 mm
- ☒ 3.15 Position the upper arms parallel to the torso, and place the hands in contact with the thighs. (S26.3.4.5)
- ☒ 3.16 Move the dummy forward on the seat, maintaining the thorax instrument cavity angle, until the dummy head/torso contacts the steering wheel. (S26.3.5) Adjust the dummy legs the minimum amount necessary to ensure torso/head contact with the steering wheel when the dummy is moved forward. (S26.3.4.2)
___ Leg adjustments needed

- X 3.17 Adjust the dummy position vertically until the Chin Point contacts the upper rim of the steering wheel. Adjust the fore/aft position of the dummy to maintain contact with the steering wheel. If this step is completed, proceed to step 3.20. If the seat prevents placing the Chin Point coincident the upper steering wheel rim proceed to 3.18. If the dummy contacts the windshield or upper interior proceed to step 3.19. (S26.3.6)

X Chin Point contacts upper steering wheel rim.

Height of Chin Point. Not recorded

 Vehicle interfered with positioning.

- 3.18 If the steering controls can be adjusted, adjust the steering controls to raise the upper steering wheel rim the necessary amount to bring the chin point coincident with the upper steering wheel rim. Adjust the rear thorax cavity along with the steering wheel angle per step 3.13. If contact is still not achieved, position the chin point as close as possible to the upper steering wheel rim. Proceed to step 3.20. (S26.3.7)

Steering Wheel Angle mm

Thorax Cavity angle degree

 Chin Point is coincident with the upper steering wheel rim.

Height of Chin Point mm

Height of upper rim mm

Chin point is not coincident with the upper steering wheel rim.

Height of Chin Point mm

Height of upper rim mm

- 3.19 If the steering controls can be adjusted, adjust the steering controls to lower the upper steering wheel rim the necessary amount to bring the chin point coincident with the upper steering wheel rim. Adjust the rear thorax cavity along with the steering wheel angle per step 3.13. If contact is still not achieved, position the chin point as close as possible to the upper steering wheel rim. If contact with upper interior or windshield cannot be avoided, lower the dummy to allow a maximum of 5 mm (0.2 inches) between the dummy and the windshield or upper interior. Proceed to step 3.20. (S26.3.6 and S26.3.7)

Steering Wheel Angle mm

Thorax Cavity angle degree

 Chin Point is coincident with the upper steering wheel rim.

Height of Chin Point mm

Height of upper rim mm

 Chin point is not coincident with the upper steering wheel rim.

Height of Chin Point mm

Height of upper rim mm

- X 3.20 Using material with a maximum breaking strength of 311 N (70 lb) and spacer blocks. Support the dummy so that there is minimum interference with the full rotational and translational freedom for the upper torso of the dummy. The material should support the torso rather than the head and should not interfere with the airbag. (S26.3.8)

X Photograph final setup and record position.

Thorax Cavity Angle 51.9 degrees

Chin Point Height Not recorded

- 3.21 Record the Airbag deployment and timing requirements in the chart below.

Number of stages for this test. 1

Stage No.	Firing Time (msec) *	Recorded Firing Time (msec)
1	0.0 msec (Time Zero)	

* Firing time is measured from Time Zero for all stages

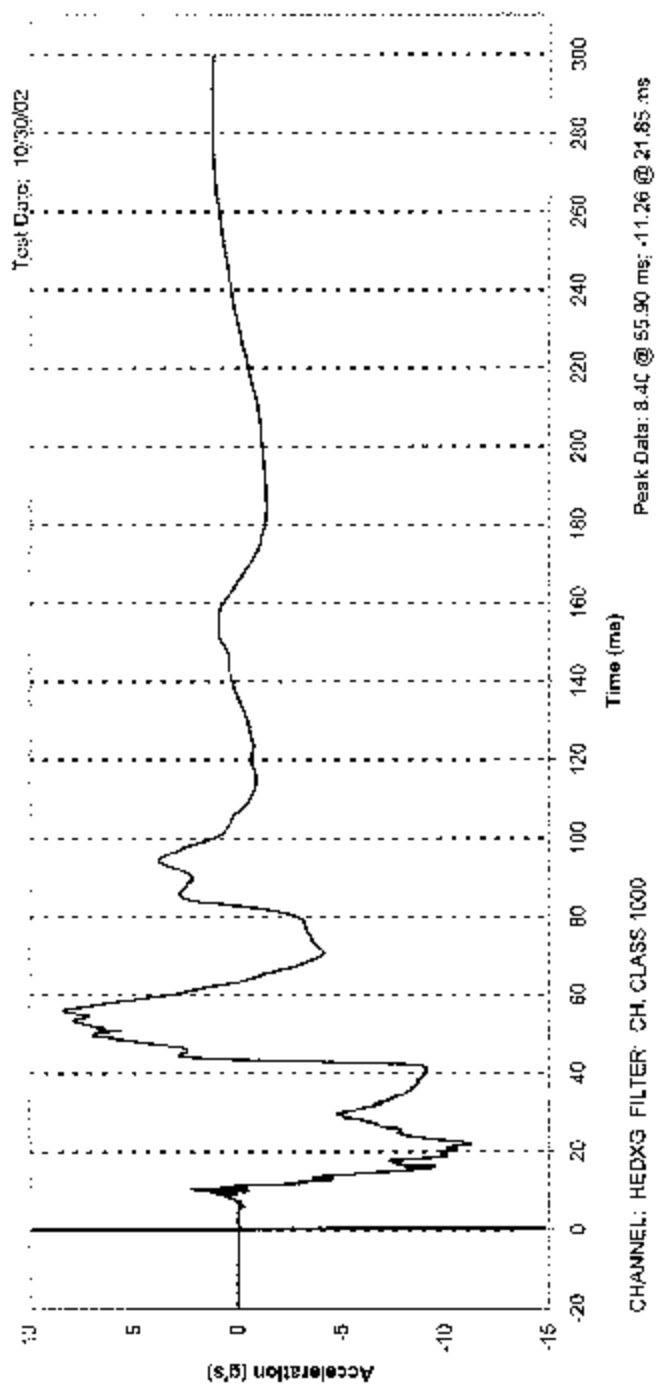
- X 3.22 Connect dummy instrumentation to the test data acquisition system and verify channel operation.
- X 3.23 Connect the airbag to the airbag firing system per the manufacturer's instructions, provided by the COTR.
- X 3.24 Prepare the high-speed video/film cameras.
- X 3.25 Fire the airbag per the table above and record the data from the dummy instrumentation.
- X 3.26 Photograph the post-test results
- N/A 3.27 Verify recorded firing times match specified firing times $\pm$ 2 milliseconds.
- X 3.28 Record injury values for this test.

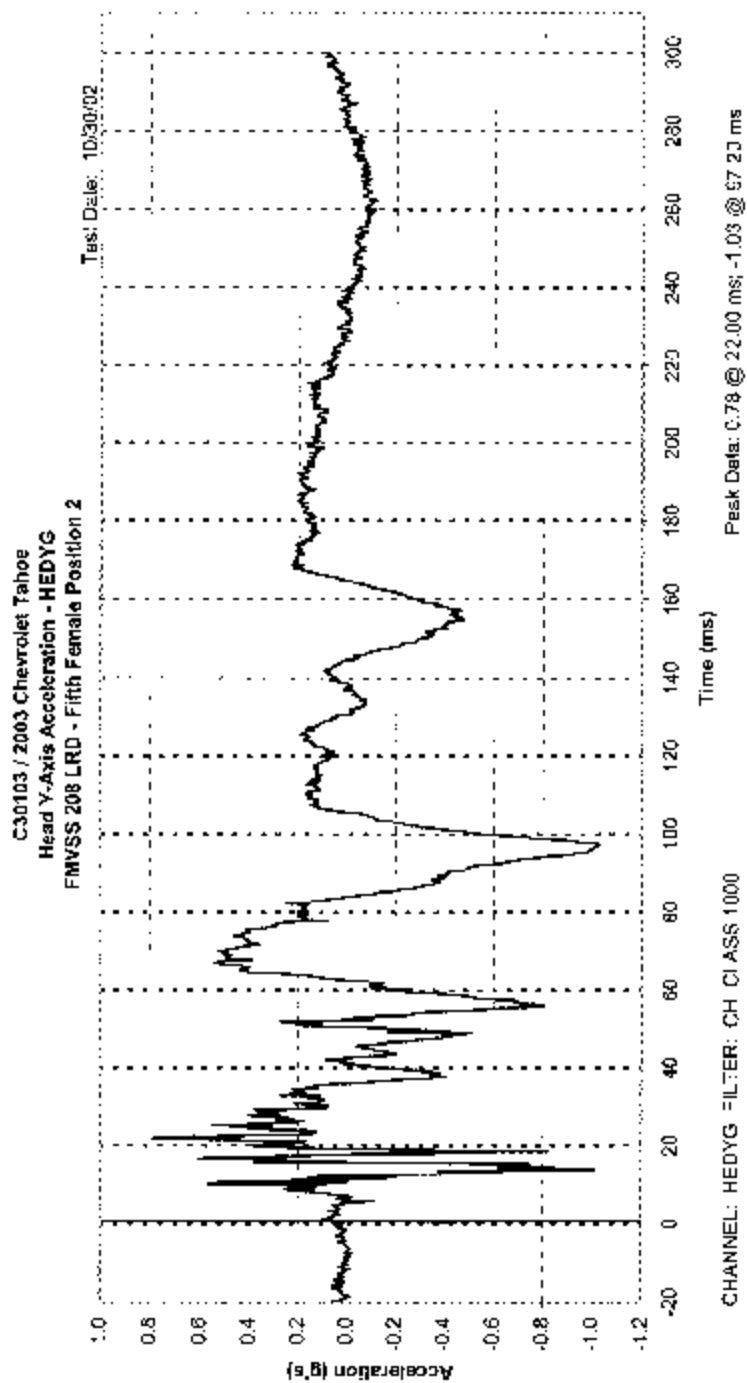
	FMVSS 208 Maximum Allowable Injury Assessment Value	Measured Value Dummy Serial No. 421
HIC ₁₅	700	8
Chest Acceleration	60 g	23
Chest Displacement	52 mm	29
Peak Nij (Nto)	1.0	0.4
Peak Nij (Ntf)	1.0	0.2
Peak Nij (Nce)	1.0	0
Peak Nij (Ncf)	1.0	0.2
Neck Tension (Fz)	2070 N	717
Neck Compression (Fz)	2520 N	139
Left femur	6805	45
Right femur	6805	29

Section 6

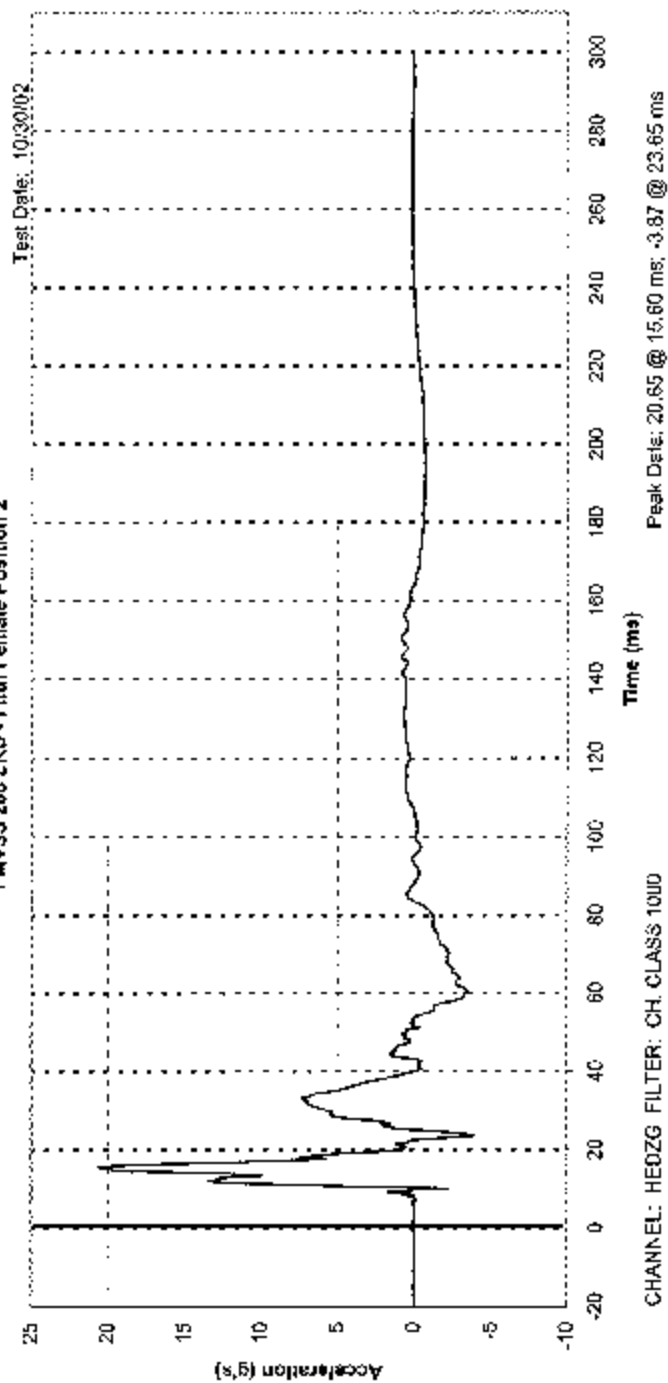
Test Data

C30103 / 2003 Chevrolet Tahoe
Head X-Axis Acceleration - HEDXG
FMVSS 208 LRD - Fifth Female Position 2





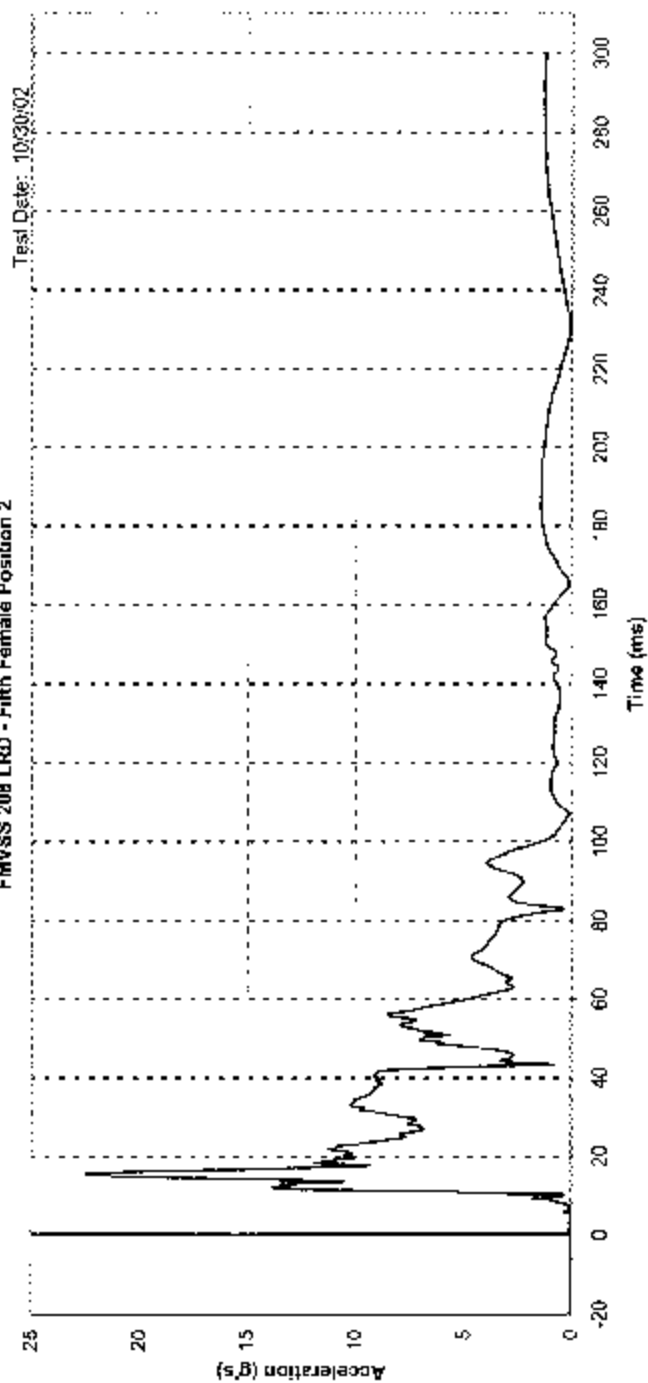
C30103 / 2003 Chevrolet Tahoe
Head Z-Axis Acceleration - HEDZG
FMVSS 203 LRD - Fifth Female Position 2



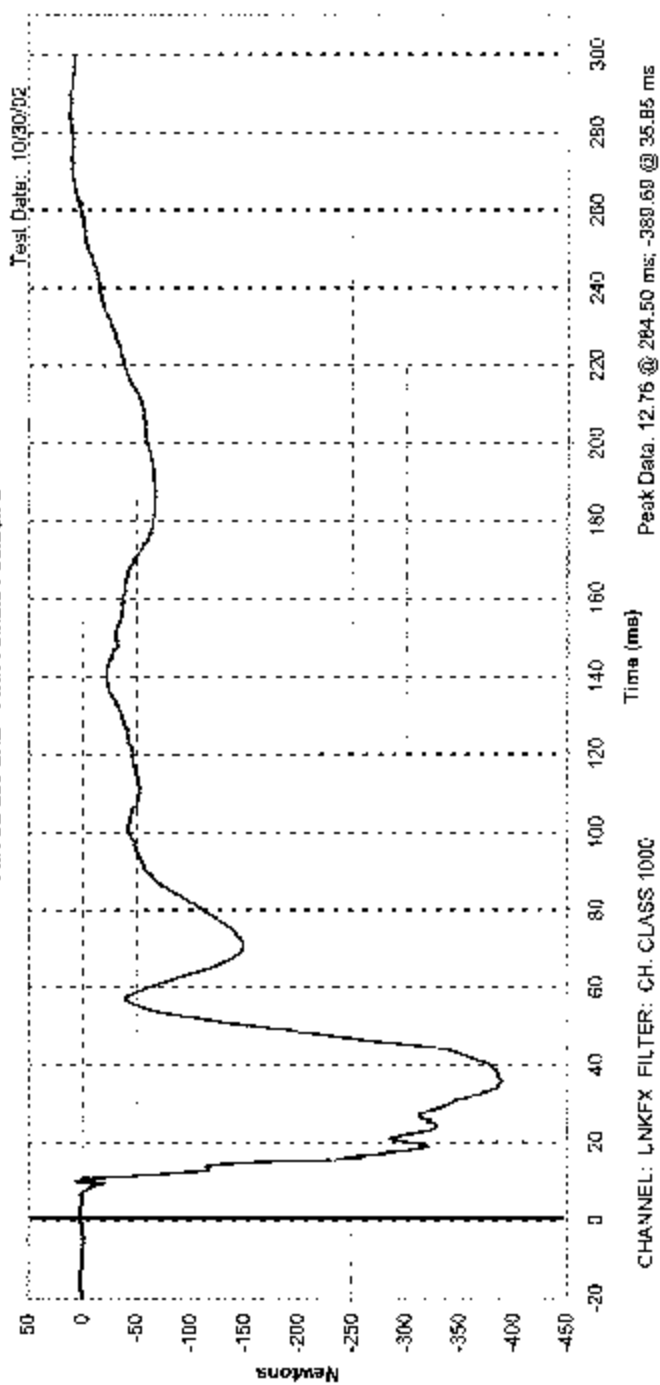
C30103 / 2003 Chevrolet Tahoe

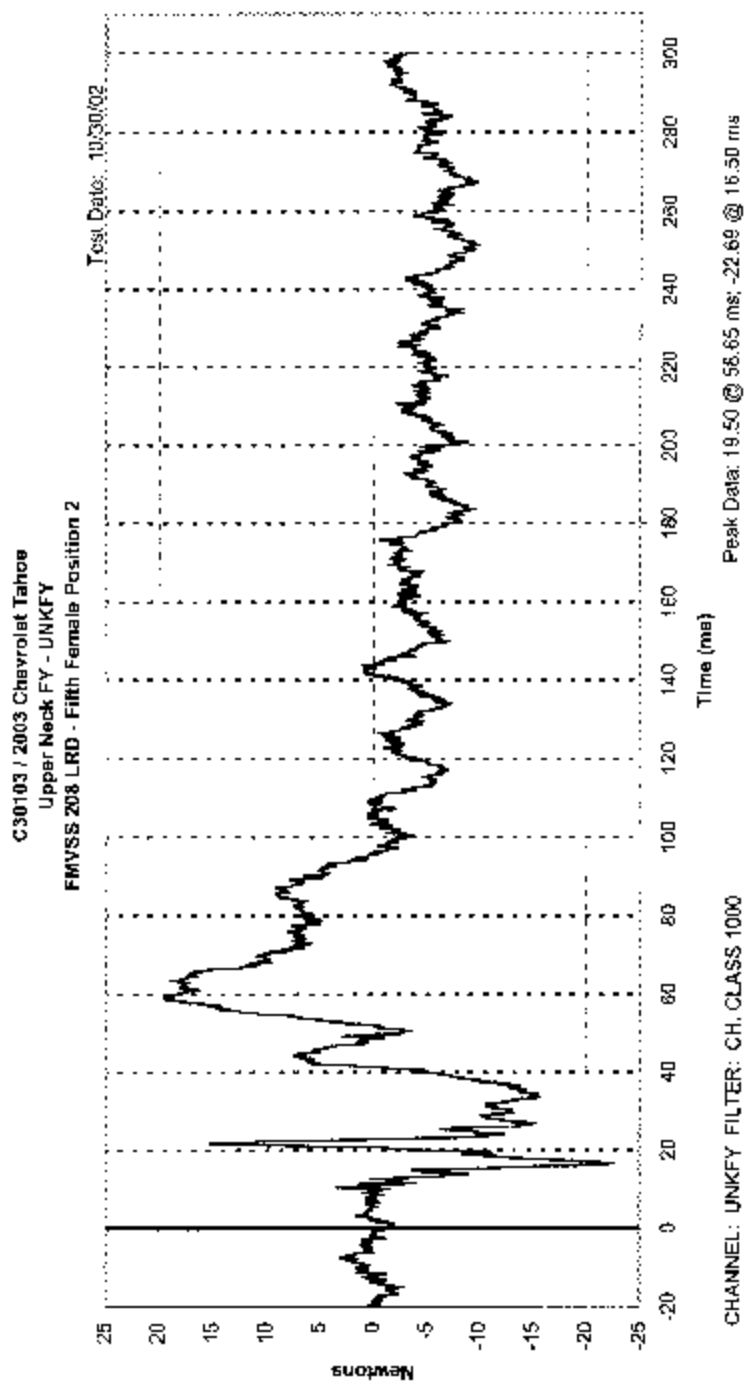
Head Restraint - HEDRG

FMVSS 208 LRD - Fifth Female Position 2

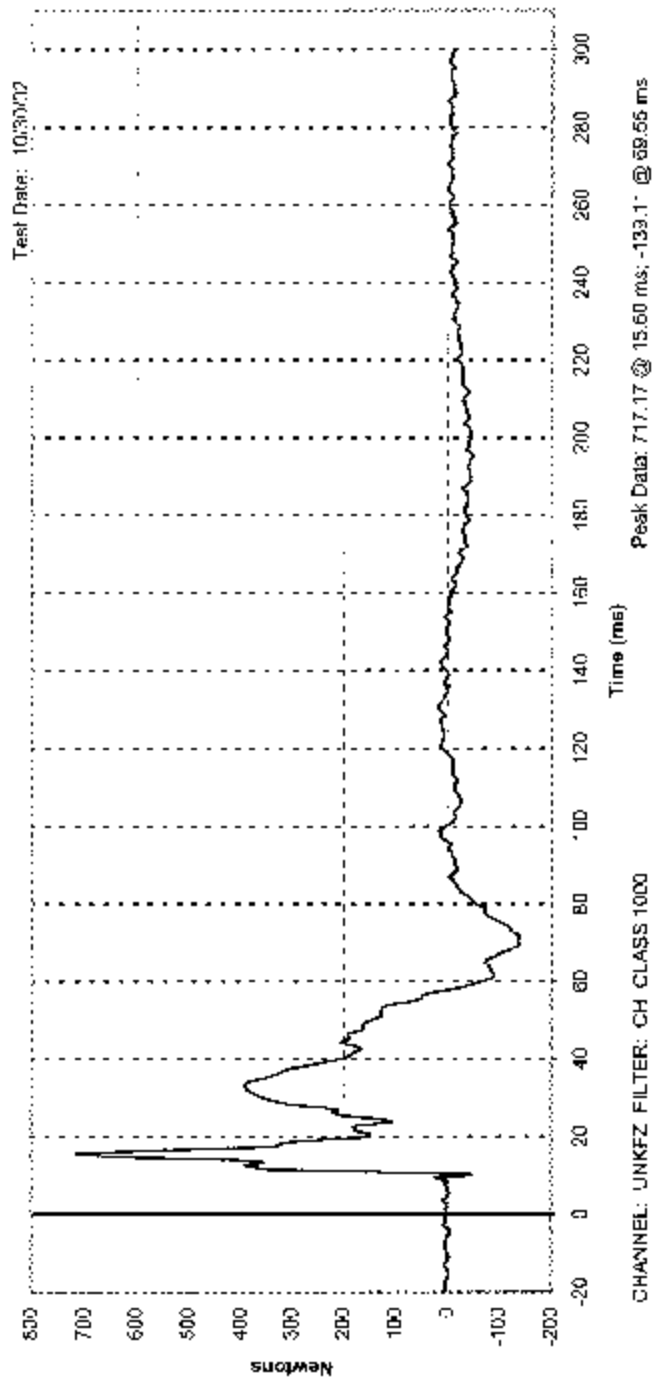


C30103 / 2003 Chevrolet Tahoe
 Upper Neck FX - LNKFX
 FMVSS 208 LRD - Fifth Female Position 2

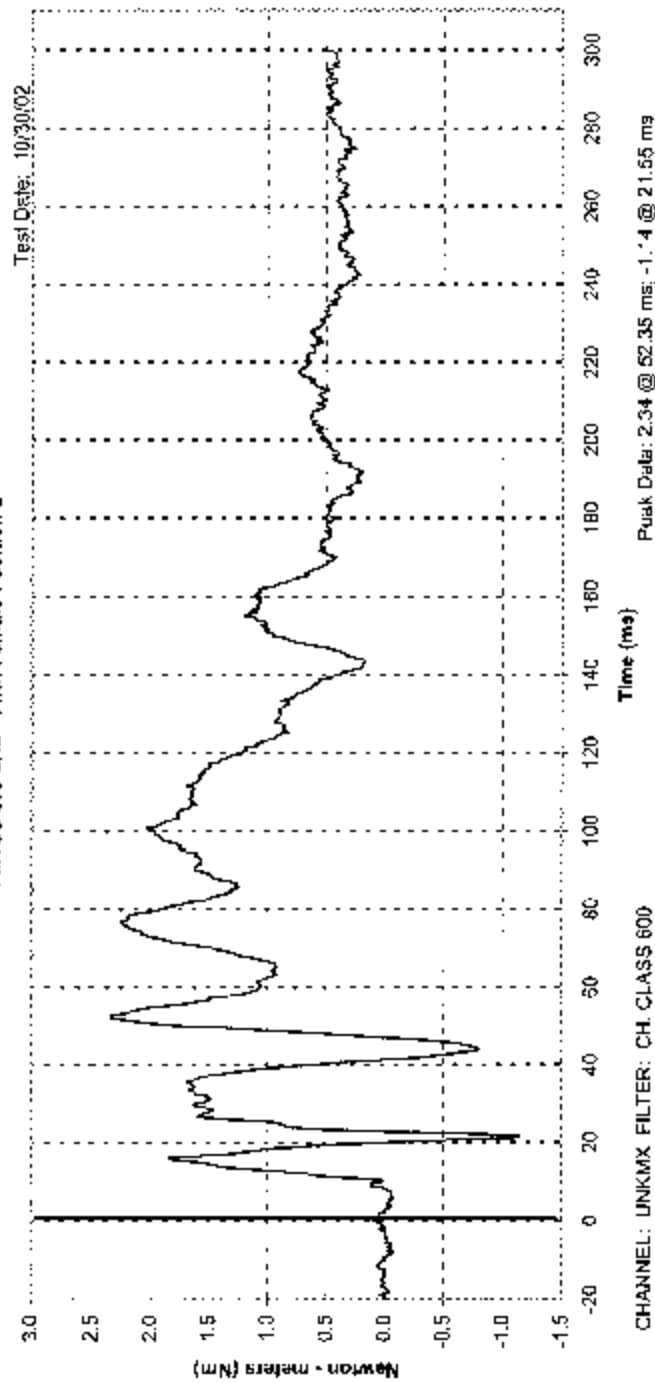


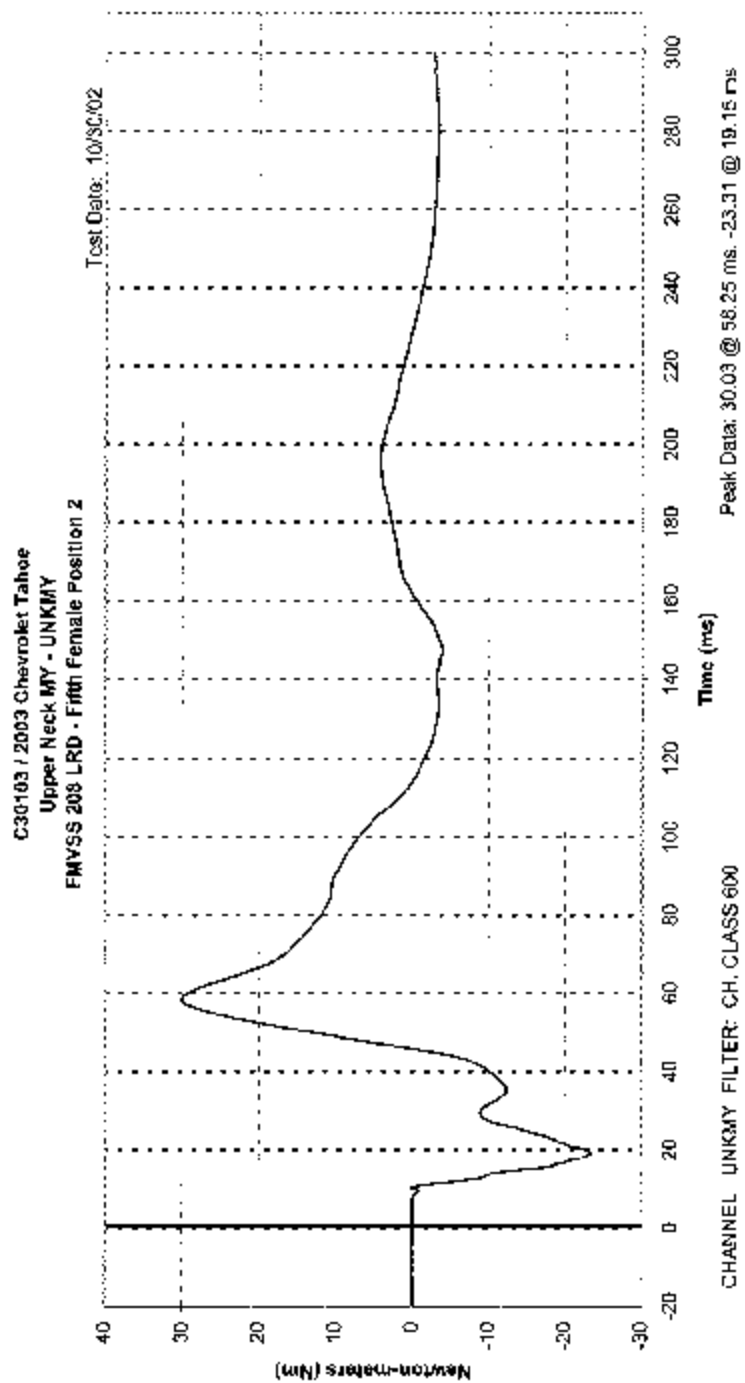


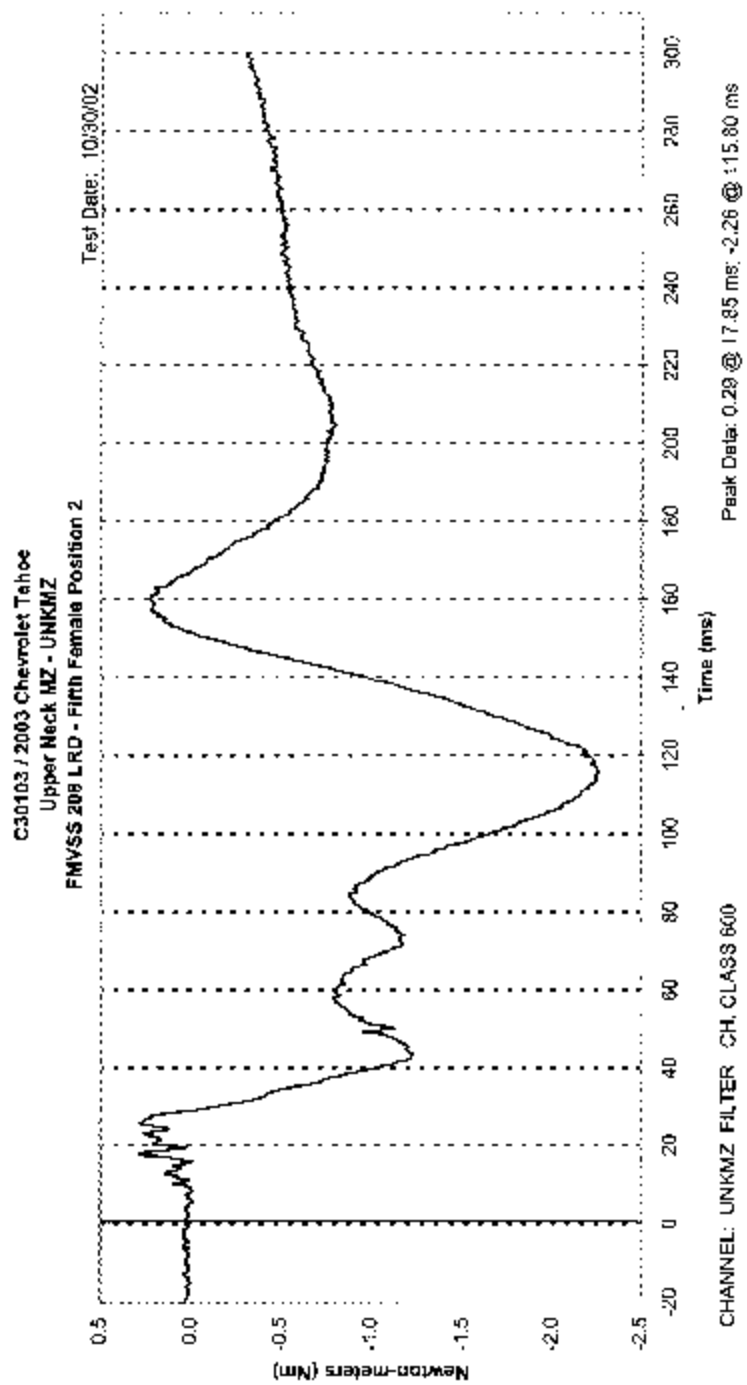
C30103 / 2003 Chevrolet Tahoe
Upper Neck FZ - UNKFZ
FMVSS 208 LRD - FMH Female Position 2



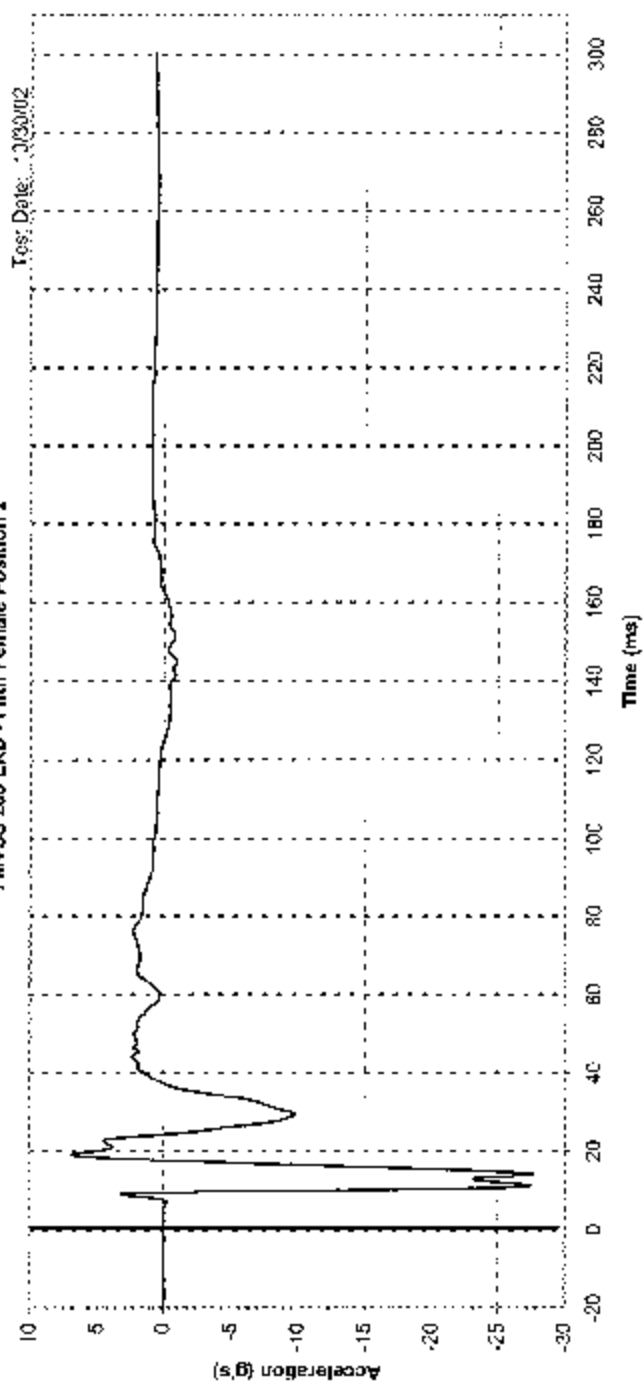
C30103 / 2003 Chevrolet Tahoe
Upper Neck MX - UNKMX
FMVSS 208 LRD - Fifth Female Position 2

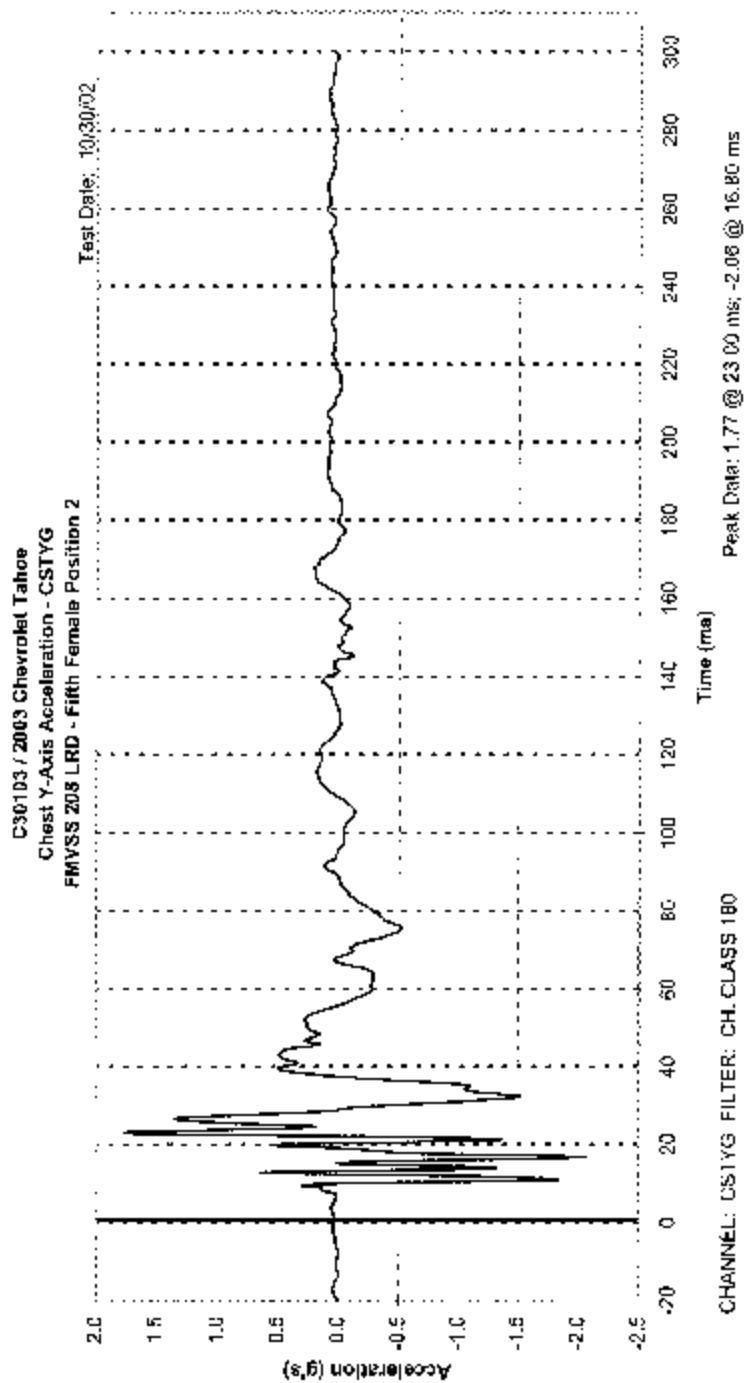


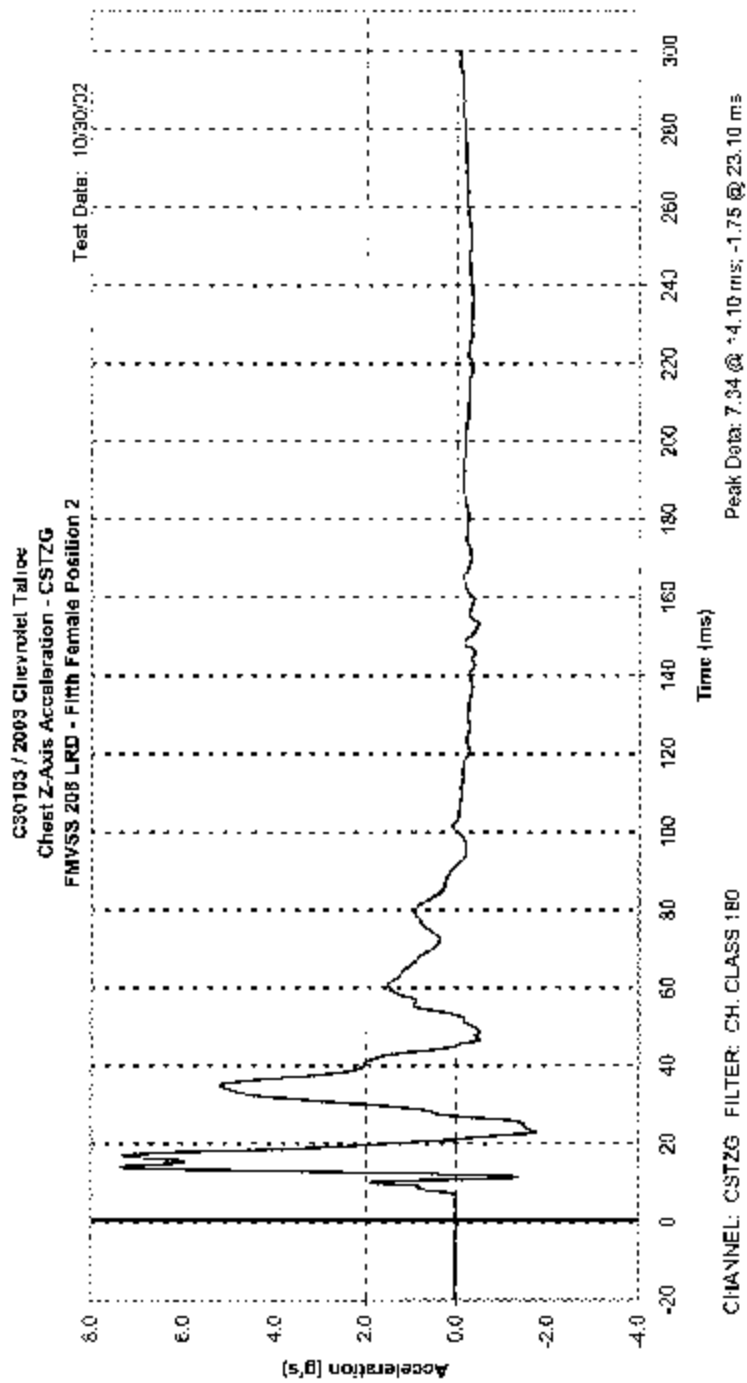


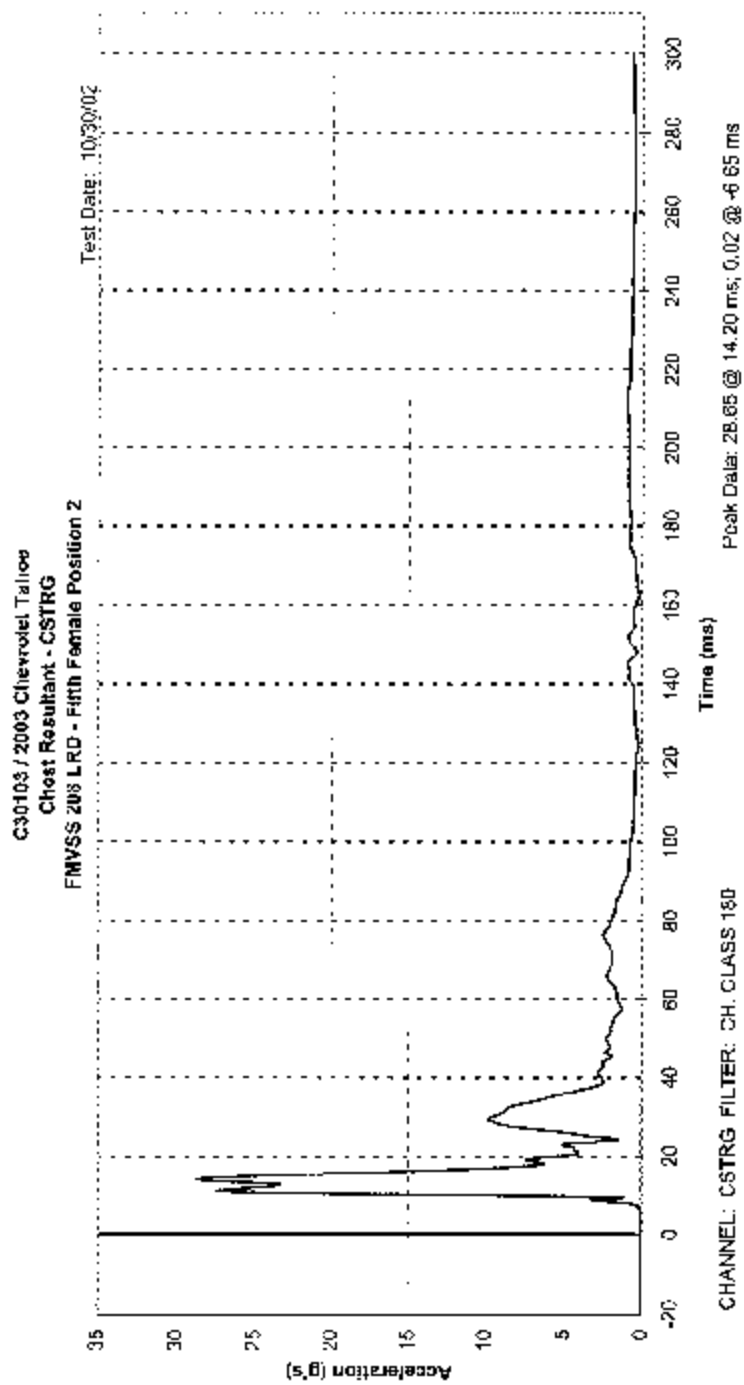


C36103 / 2003 Chevrolet Tahoe
Chest X-Axis Acceleration - CSTXG
FMVSS 208 LRD - Fifth Female Position 2

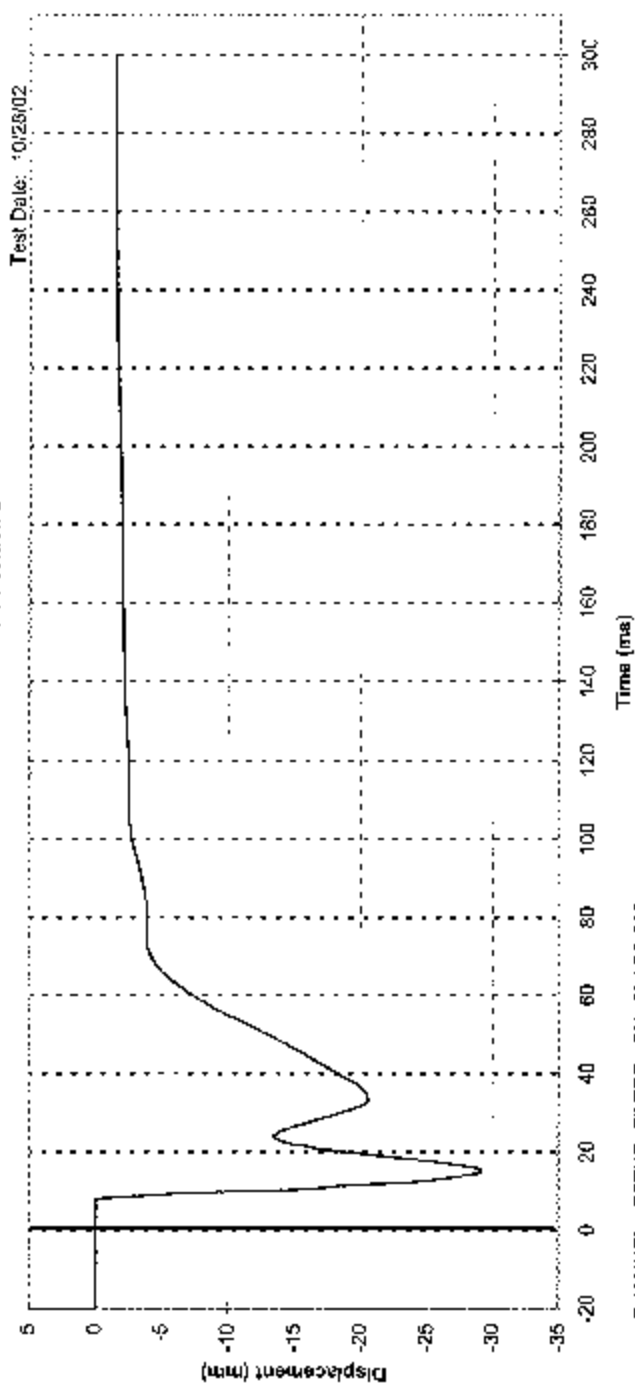


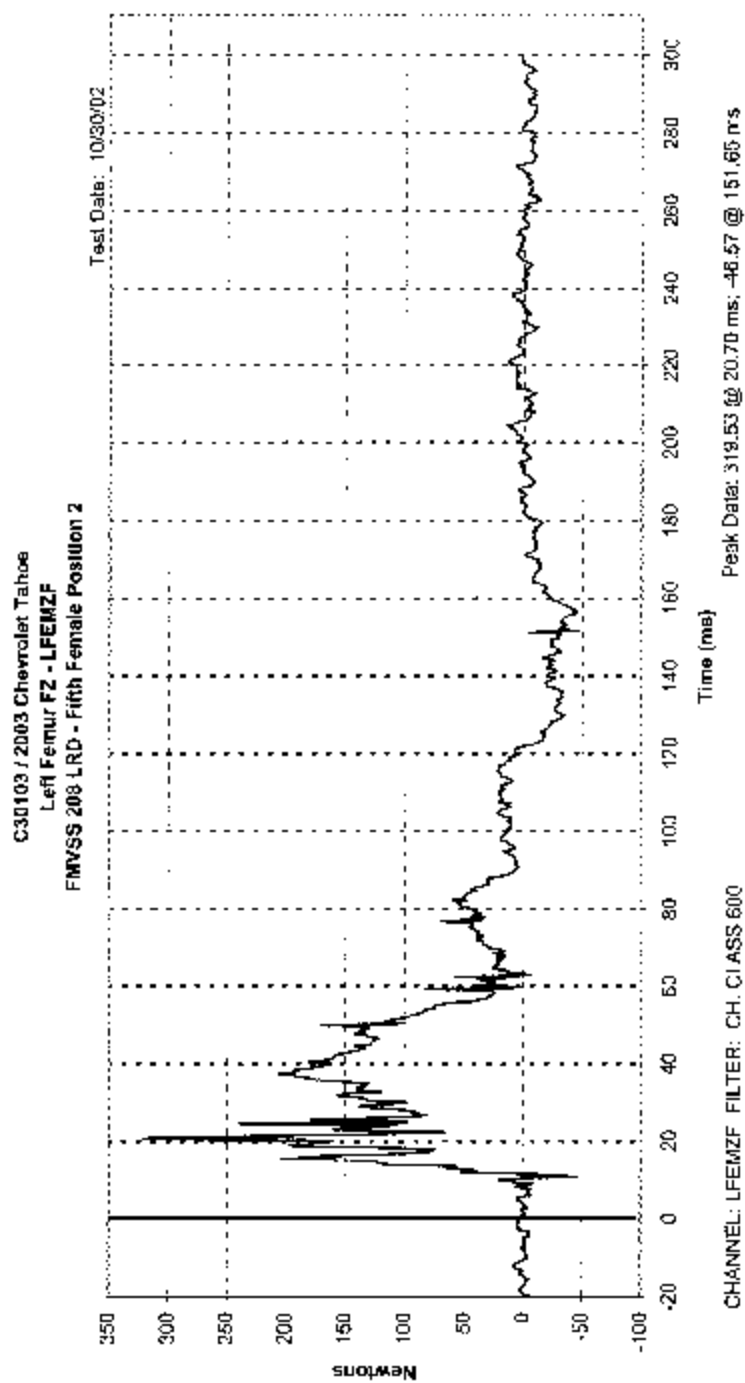




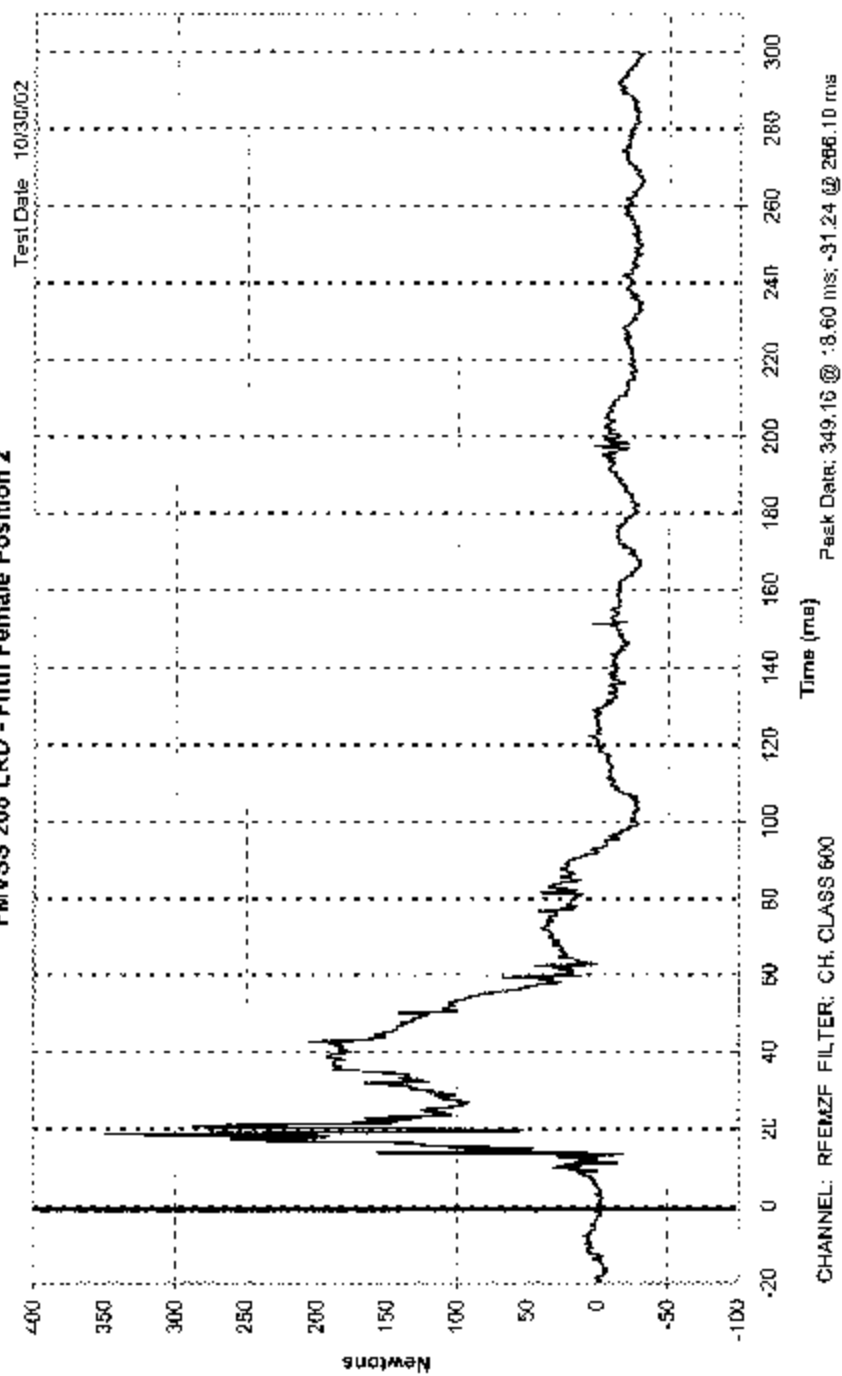


C30103 / 2003 Chevrolet Tahoe
 Chest Deflection - CSTXD
 FMVSS 208 LRD - Fifth Female Position 2





C30103 / 2003 Chevrolet Tahoe
Right Femur Force FZ - RFEMZF
FMVSS 208 LRD - Fifth Female Position 2



Section 7

Photographs

List of Photographs

Figure	Description	Page
7-1	Britax Handle with Care, Handle Up, Unbelted, Full Forward Seat Position	7-4
7-2	Britax Handle with Care, Handle Down, Belted, Full Forward Seat Position	7-4
7-3	Britax Handle with Care, Sun Shield Up, Belted, Full Forward Seat Position	7-5
7-4	Britax Handle with Care, Sun Shield Up, Blanket Position 1, Belted, Full Forward Seat Position	7-5
7-5	Britax Handle with Care, Sun Shield Up, Blanket Position 2, Belted, Full Forward Seat Position	7-6
7-6	Britax Handle with Care, Sun Shield and Handle Down, Unbelted, Full Rearward Seat Position	7-6
7-7	Evenflo First Choice, Base Off, Handle Up, Belted, Full Forward as Possible Seat Position	7-7
7-8	Evenflo First Choice, Base Off, Handle Down, Unbelted, Full Forward as Possible Seat Position	7-7
7-9	Graco Snug Ride, Handle Down, Belted, Full Forward as Possible Seat	7-8
7-10	Graco Snug Ride, Handle Up, Unbelted, Full Forward as Possible Seat	7-8
7-11	Britax Roundabout, Rear Facing, Belted, Full Forward Seat Position	7-9
7-12	Britax Roundabout, Rear Facing, Unbelted, Full Forward as Possible Seat Position	7-9
7-13	Britax Roundabout, Forward Facing, Belted, Full Forward Seat Position	7-10
7-14	Britax Roundabout, Forward Facing, Unbelted, Full Forward Seat Position	7-10
7-15	Century Encore, Rear Facing, Belted, Full Forward as Possible Seat Position	7-11
7-16	Century Encore, Rear Facing Unbelted, Full Forward as Possible Seat Position	7-11
7-17	Century Encore, Forward Facing, Unbelted, Full forward seat position	7-12
7-18	Century Encore, Forward Facing, Unbelted, Full forward seat position	7-12
7-19	Evenflo Medallion V, Rear-Facing, Belted, Full Forward Seat Position	7-13
7-20	Evenflo Medallion V, Rear-Facing, Unbelted, Full Forward as Possible Seat Position	7-13
7-21	Evenflo Medallion V, Forward Facing, Unbelted, Full Forward Seat Position	7-14
7-22	Evenflo Medallion V, Forward Facing, Belted, Full Forward Seat Position	7-14
7-23	Britax Roundabout, Forward Facing, Belted, Full Forward Seat Position	7-15
7-24	Century Encore, Belted, Full Forward as Possible Seat Position	7-16

Figure	Description	Page
7-25	Evenflo Medallion, Belted, Full Forward Seat Position	7-17
7-26	Century Next Step, Belted, w/ Booster Harness, Full Forward Seat Position	7-18
7-27	Century Next Step, Belted, w/o Booster Harness, Full Forward Seat Position	7-19
7-28	Cosco High Back, Belted, w/ Booster Harness, Full Forward Seat Position	7-20
7-29	Cosco High Back, Belted, w/o Booster Harness, Full Forward Seat Position	7-21
7-30	3-Year Old Sitting On Seat With Back Against Seat Back, Full Forward Seat Position	7-22
7-31	3-Year Old Sitting On Seat With Back Against Reclined Seat Back, Full Forward Seat Position	7-23
7-32	3-Year Old Sitting On Seat With Back Not Against Seat Back, Full Forward Seat Position	7-24
7-33	3-Year Old Sitting On Seat Edge, Spine Vertical, Hands By The Child's Side, Seat Position As Full Forward As Possible	7-25
7-34	Standing On Seat Facing Forward, Full Forward Seat Position	7-26
7-35	Kneeling On Seat Facing Forward, Full Forward Seat Position	7-27
7-36	Kneeling On Seat Facing Rearward, Full Forward Seat Position	7-28
7-37	6-Year Old, Century Next Step, Belted, Rearmost Seat Position	7-29
7-38	6-Year Old, Cosco High Back Booster, Belted, Rearmost Seat Position	7-30
7-39	6-Year Old, Evenflo Right Fit, Belted, Rearmost Seat Position	7-31
7-40	6-Year Old Sitting On Seat With Back Against Seat Back, Rearmost Seat Position	7-32
7-41	6-Year Old Sitting On Seat With Back Against Reclined Seat Back, Rearmost Seat Position	7-33
7-42	6-Year Old Sitting On Seat Edge, Spine Vertical, Hands By The Dummy's Side, Rearmost Seat Position	7-34
7-43	6-Year Old Back In The Seat And Leaning On The Right Front Passenger Door, Rearmost Seat Position	7-35
7-44	5 th Female Reactivation Test	7-36
7-45	Pre-Test Driver Low Risk Deployment, Position One, Chin on Rim	7-37
7-46	Post-Test Driver Low Risk Deployment, Position One, Chin on Rim	7-38



Figure 7-1: Biotex Handle with Care, Handle Top, Unbelated, Full Forward Seat Position



Figure 7-2: Biotex Handle with Care, Handle Down, Belated, Med Seat Position

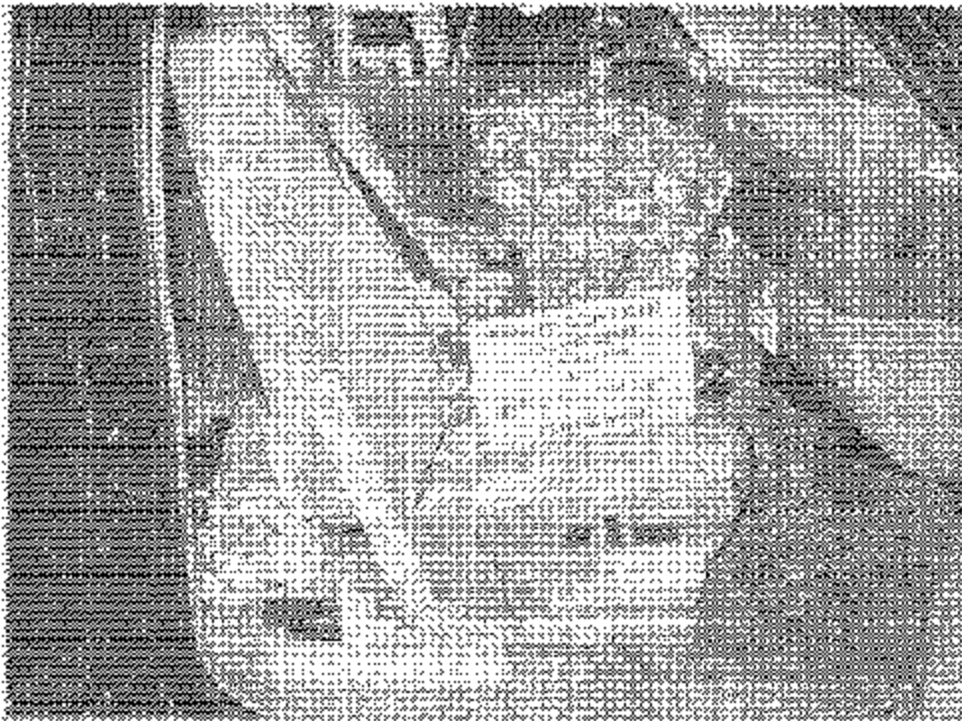


Figure 7-3. Helox Handle with Core, Strapped Up, Neutral, Full Forward Seat Position.

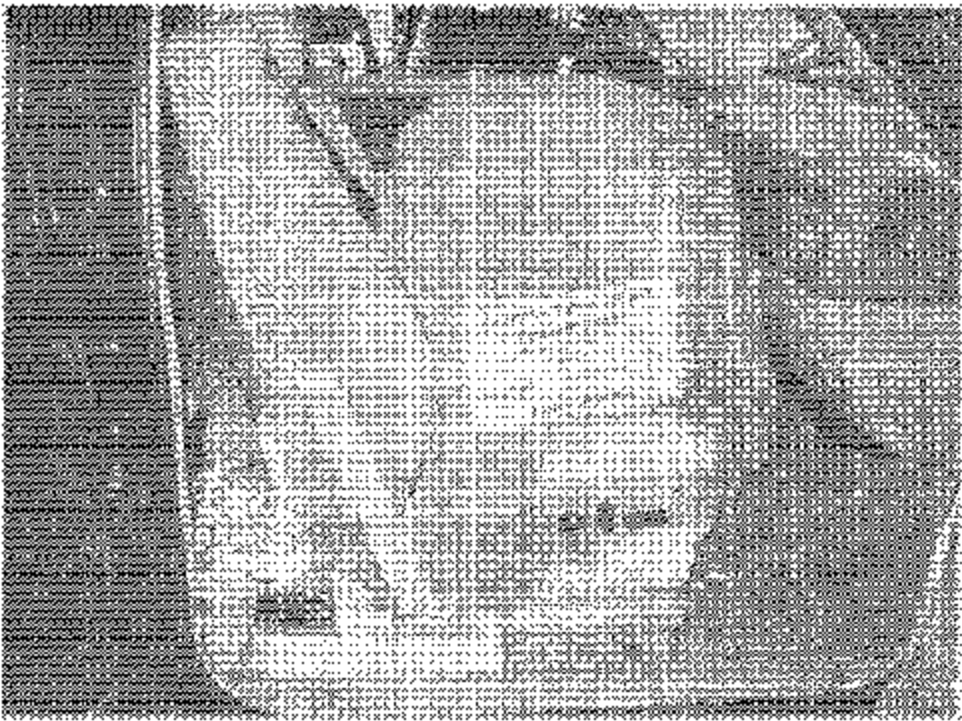


Figure 7-4. Helox Handle with Core, Strapped Up, Upward Position 1, Neutral, Full Forward Seat Position.

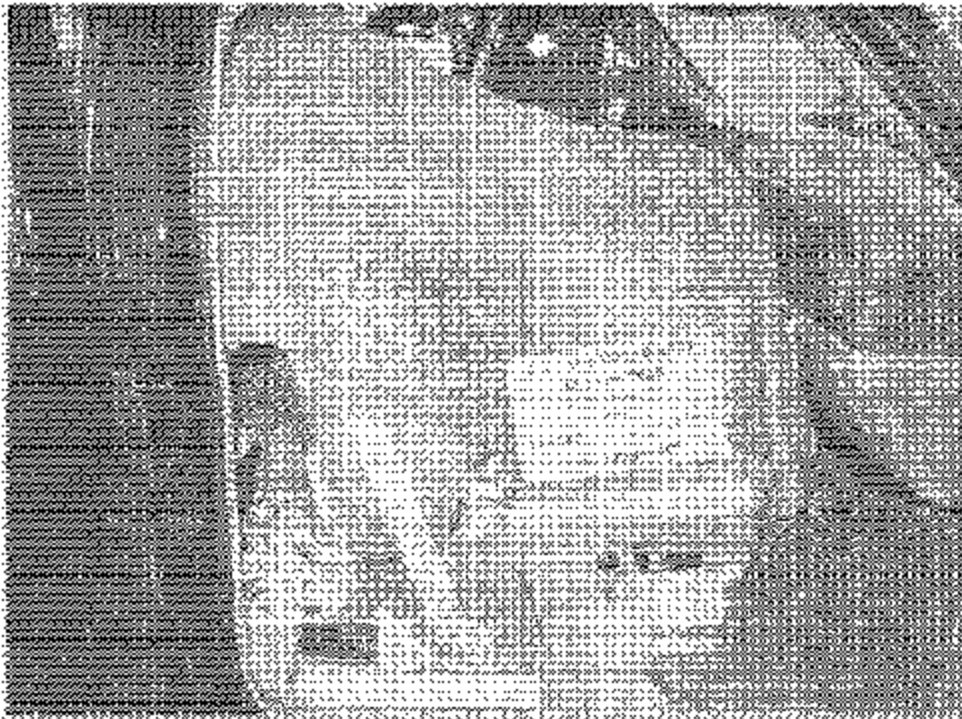


Figure 7-5: Orders Handle with Care, Set Arm and Up, Hatched Position 2, Handle, Full Forward Seat Position.



Figure 7-6: Orders Handle with Care, Set Arm and Up, Handle Down, Hatched, Full Reverse Seat Position.



Figure 7-10: Frontal Post-Stroke, Rest-Of, Head-Up, Off-Bed, Tail Forward



Figure 7-11: Frontal Post-Stroke, 3 in-Of, Head-Down, Relaxed, Tail Forward w/ Possible Scan Motion



Figure 7-96: Close-Up of Face, Base On, Head Up, Roll 90, Pan Forward & Toward Sea Position

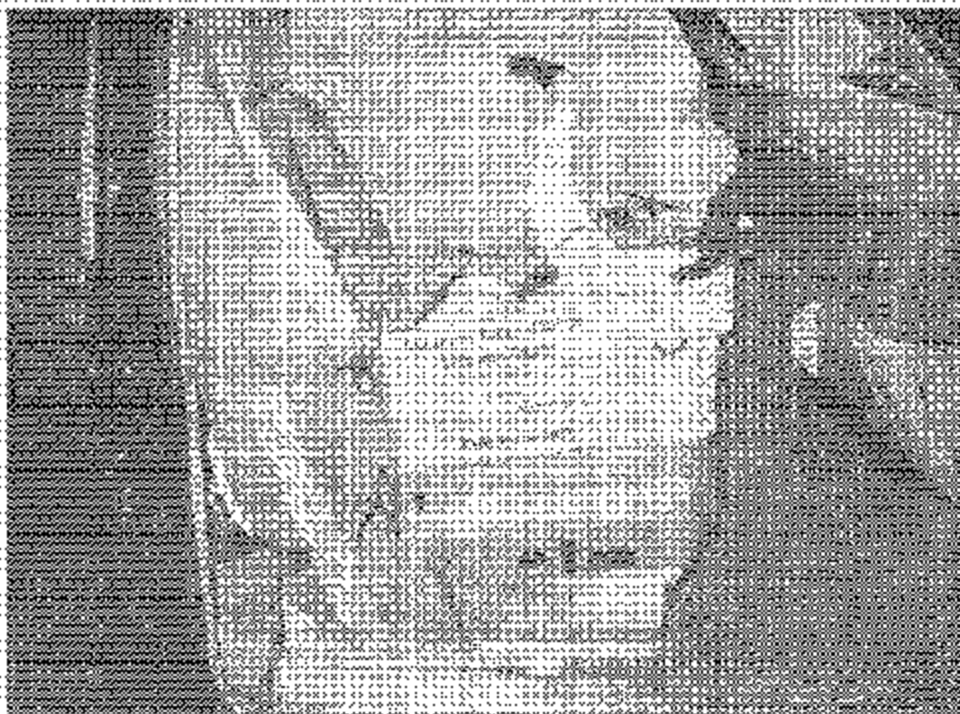


Figure 7-97: Close-Up of Face, Base On, Head Up, Roll 90, Pan Forward & Toward Sea Position

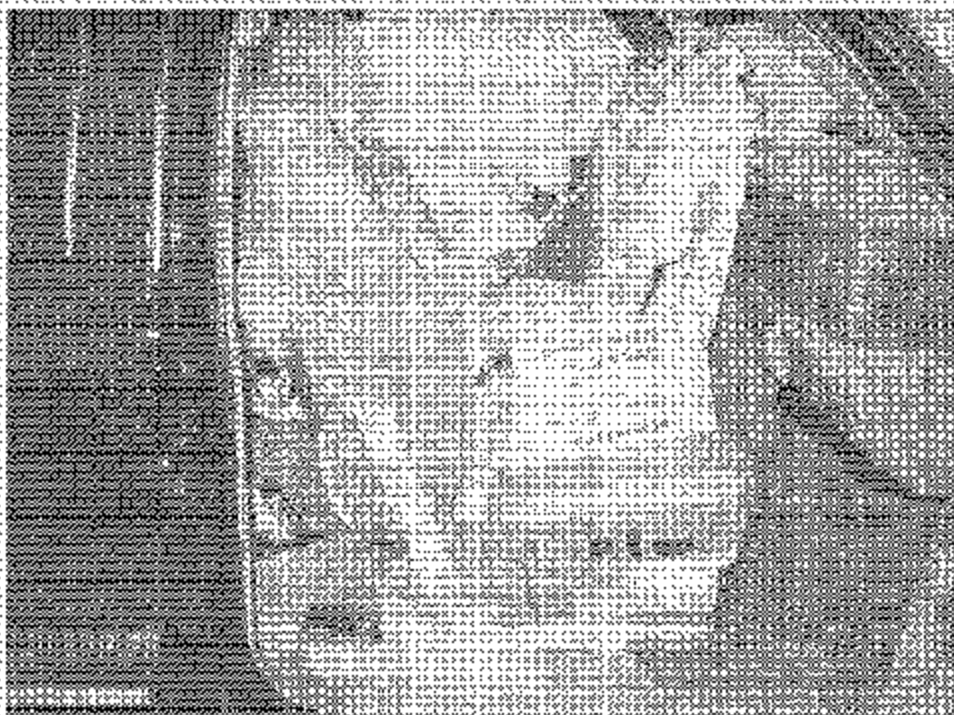


Figure 3.11. Entry Roundabout, Rear Facing, Unlabeled, Full Forward Seat Position

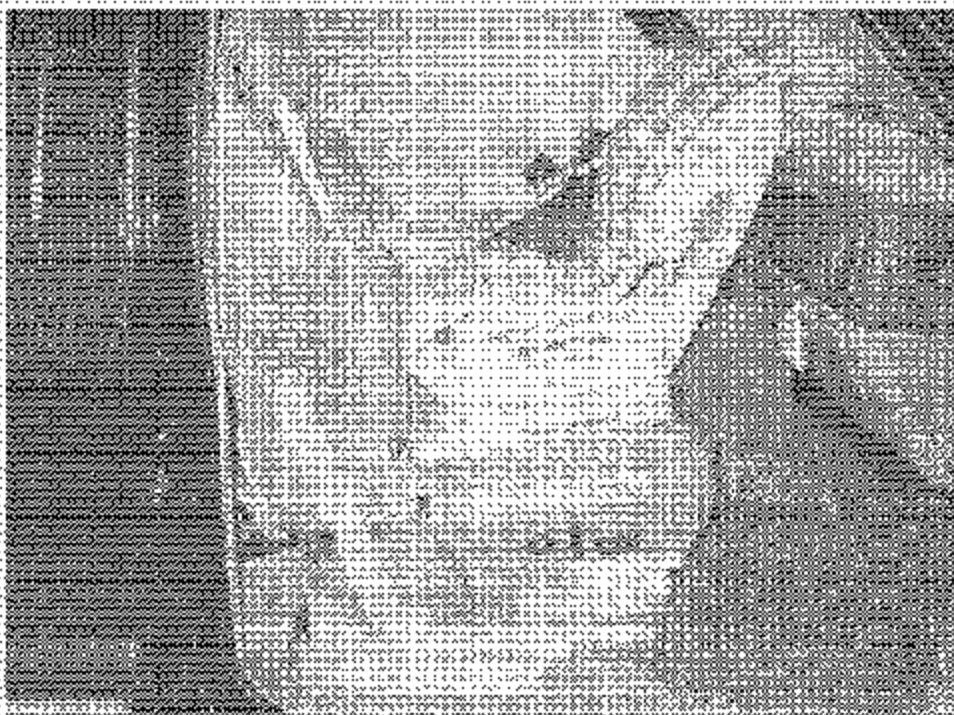


Figure 3.12. Entry Roundabout, Rear Facing, Unlabeled, Full Forward as Possible Seat Position



Figure 7-17. Henry Rasmussen, Forward Facing, Seated, Full Forward Seat Position

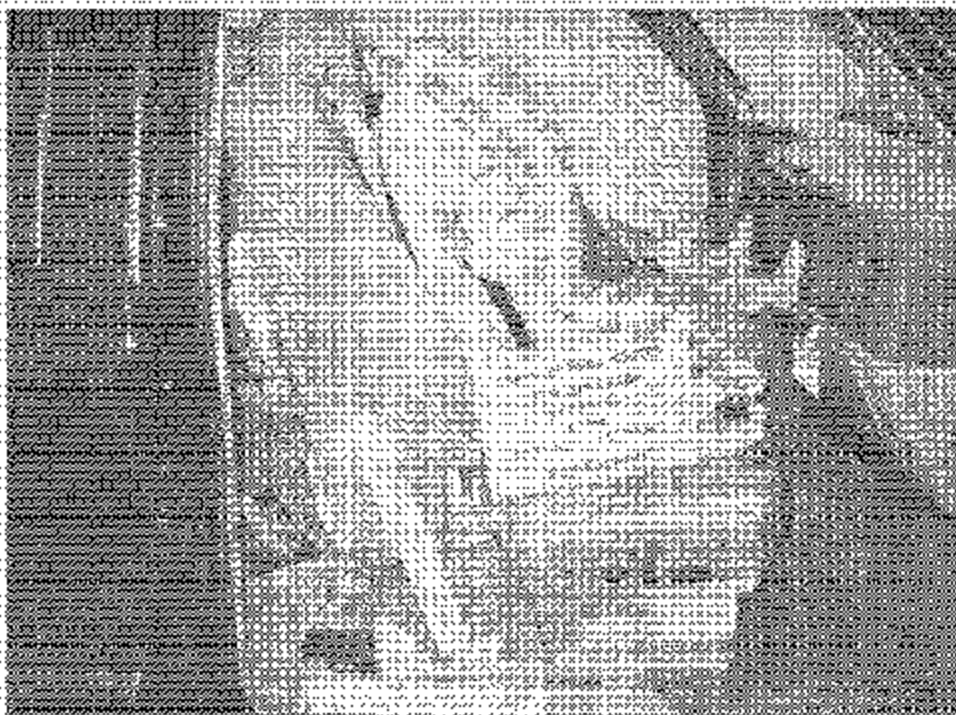


Figure 7-18. Brian Rasmussen, Forward Facing, Seated, Full Forward Seat Position



Figure 7-15. Century Encore, Buffalo, Rail Forward as Possible Seat Position

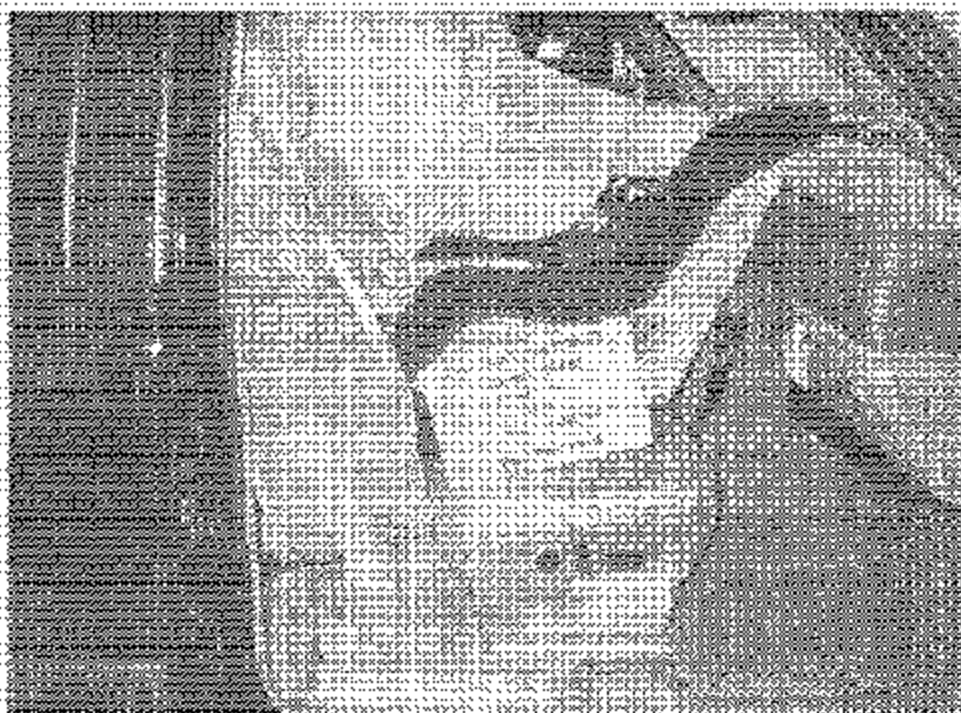


Figure 7-16. Century Encore, Unlabeled, Rail Forward as Possible Seat Position

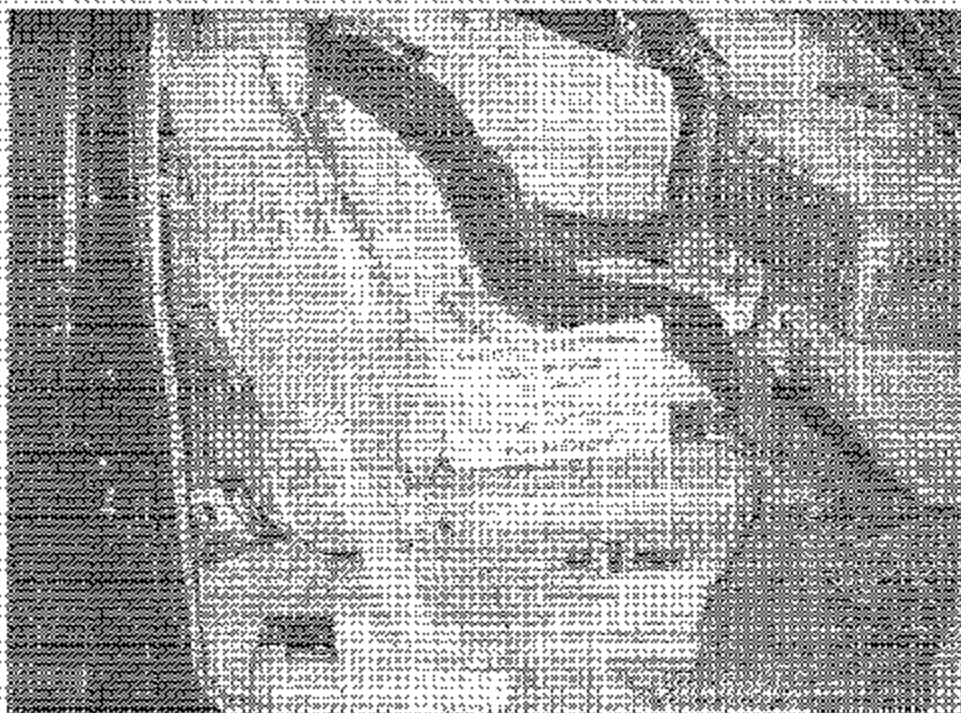


Figure 7-17: Century Tower, Forward Facing, Portland, P.M. Forward View Position

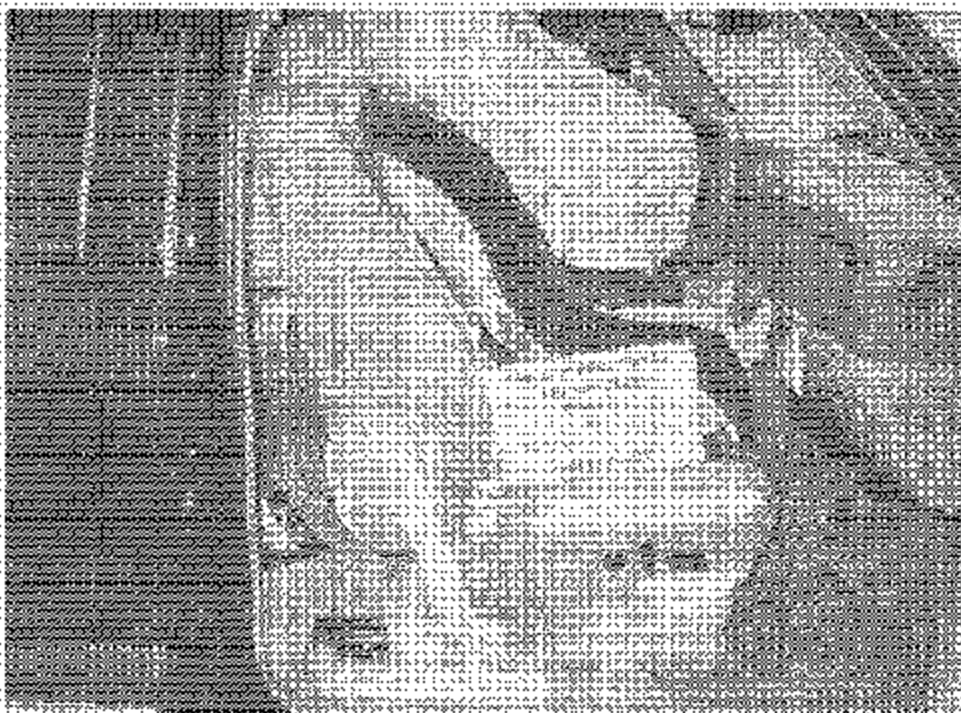


Figure 7-18: Century Tower, Forward Facing, Portland, P.M. Forward View Position



Figure 7.1.1: Eumelia Mendonça V. Rear-facing, Seated, But Forward as Possible Seat Position



Figure 7.1.2: Eumelia Mendonça V. Rear-facing, Seated, But Forward as Possible Seat Position



Figure 7.21: Everett Medallion 1, Forward Facing, Unfolded, Full Forward Seat Position

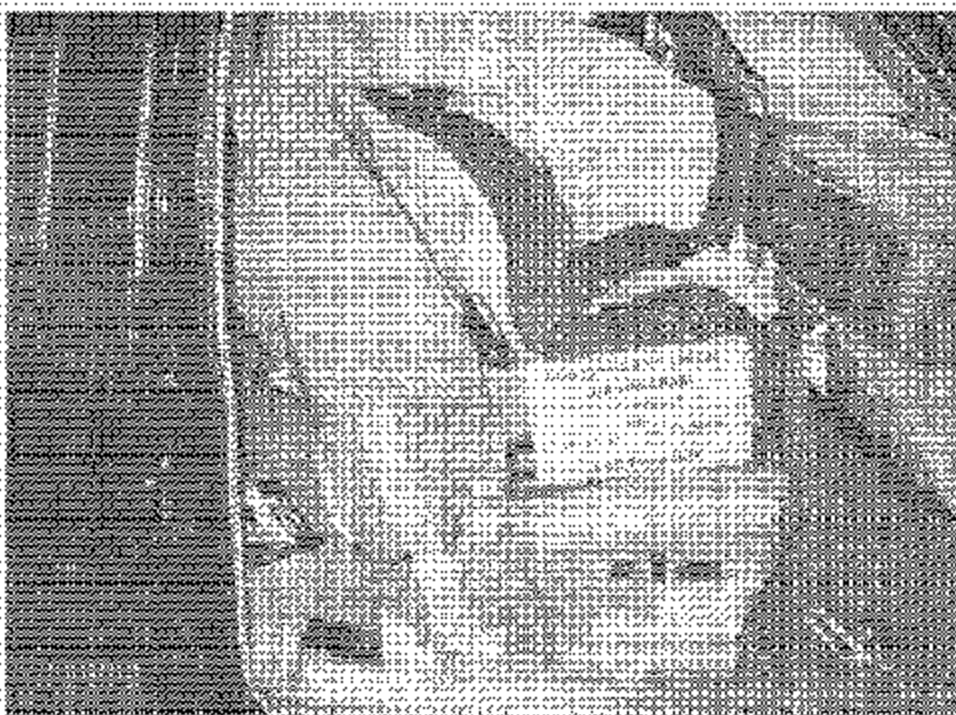


Figure 7.22: Everett Medallion 1, Forward Facing, Folded, Full Forward Seat Position

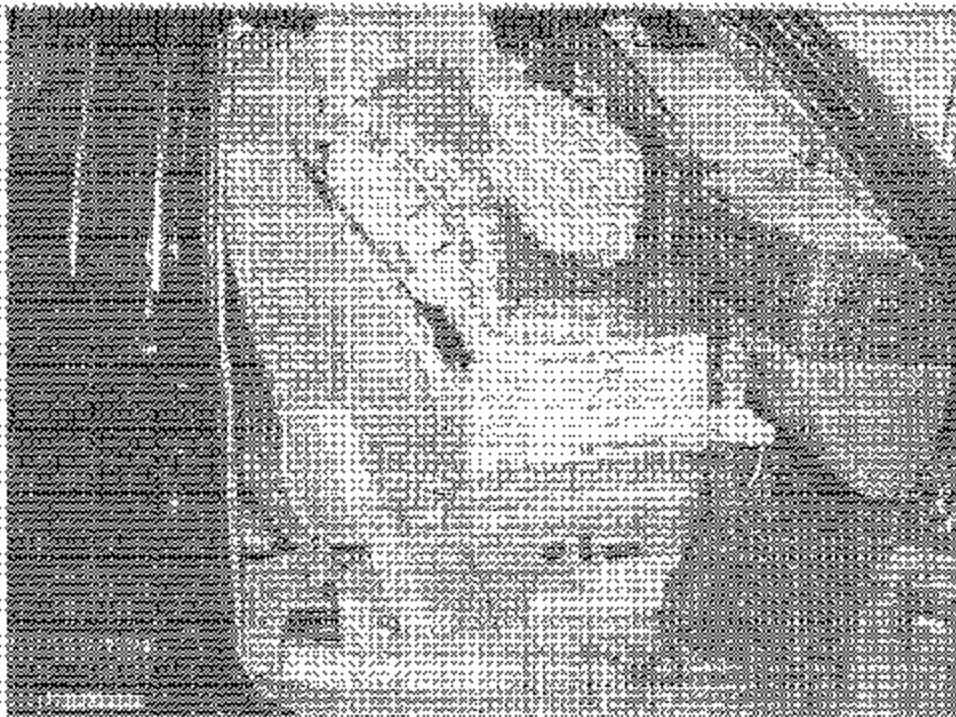


Figure 7-22. Bontex Rehabilitation Program: Patient in a Specialized Car Seat

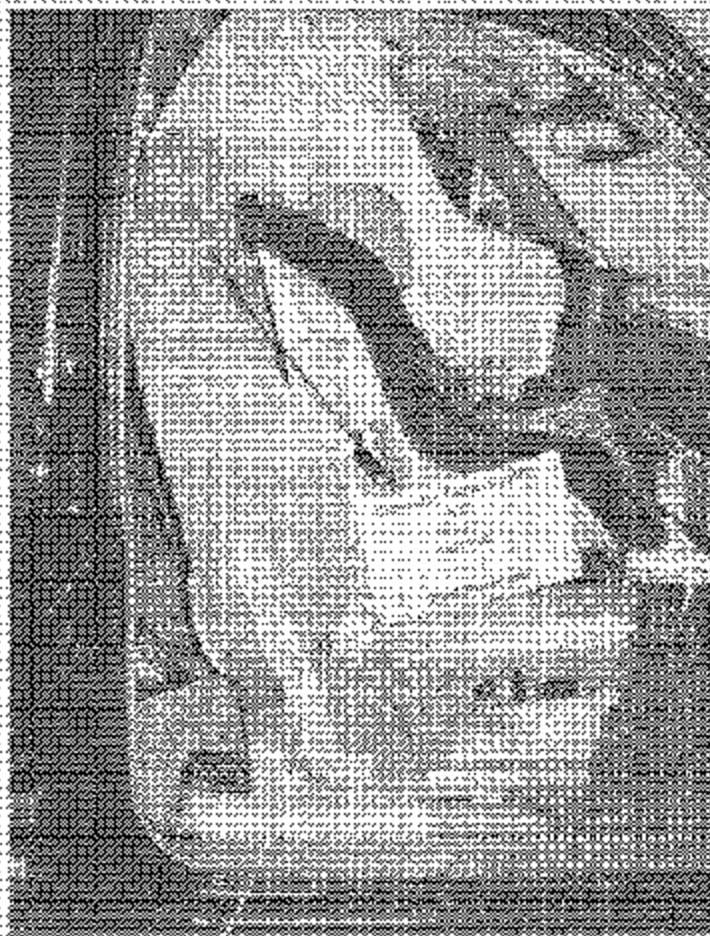


Figure 1.14. Cleanay Engine, Tailrot, Left Forward

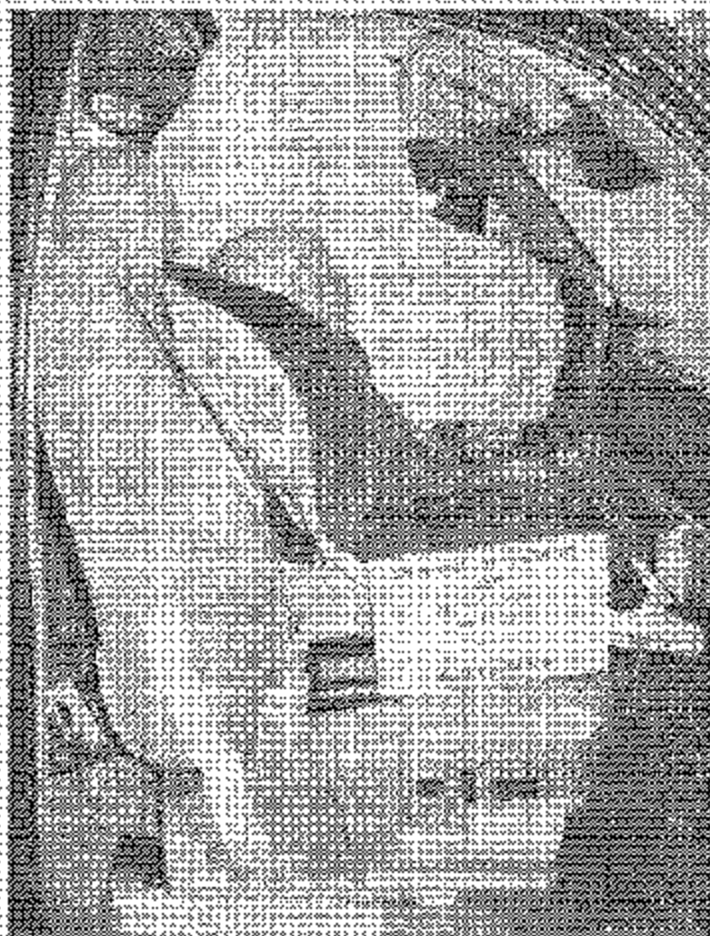


Figure 24. Example Malware, Beaded, Pull Forward Seat Position



Figure 226. Gertrude Nest, Six and Half Years in Prison, Fall 1944 and 1945.



Figure 10-1. Captain Matt Sam Baker, Beloit, who Boomer Harless told prevented sea pollution.



Figure 7-18. Crew High Seat, Behind, w/Booster Harness, Full Forward, Kneel Position



Figure 7-29: Caisa High Back, Bucket, Padded, Full-Foam Seat, Platform

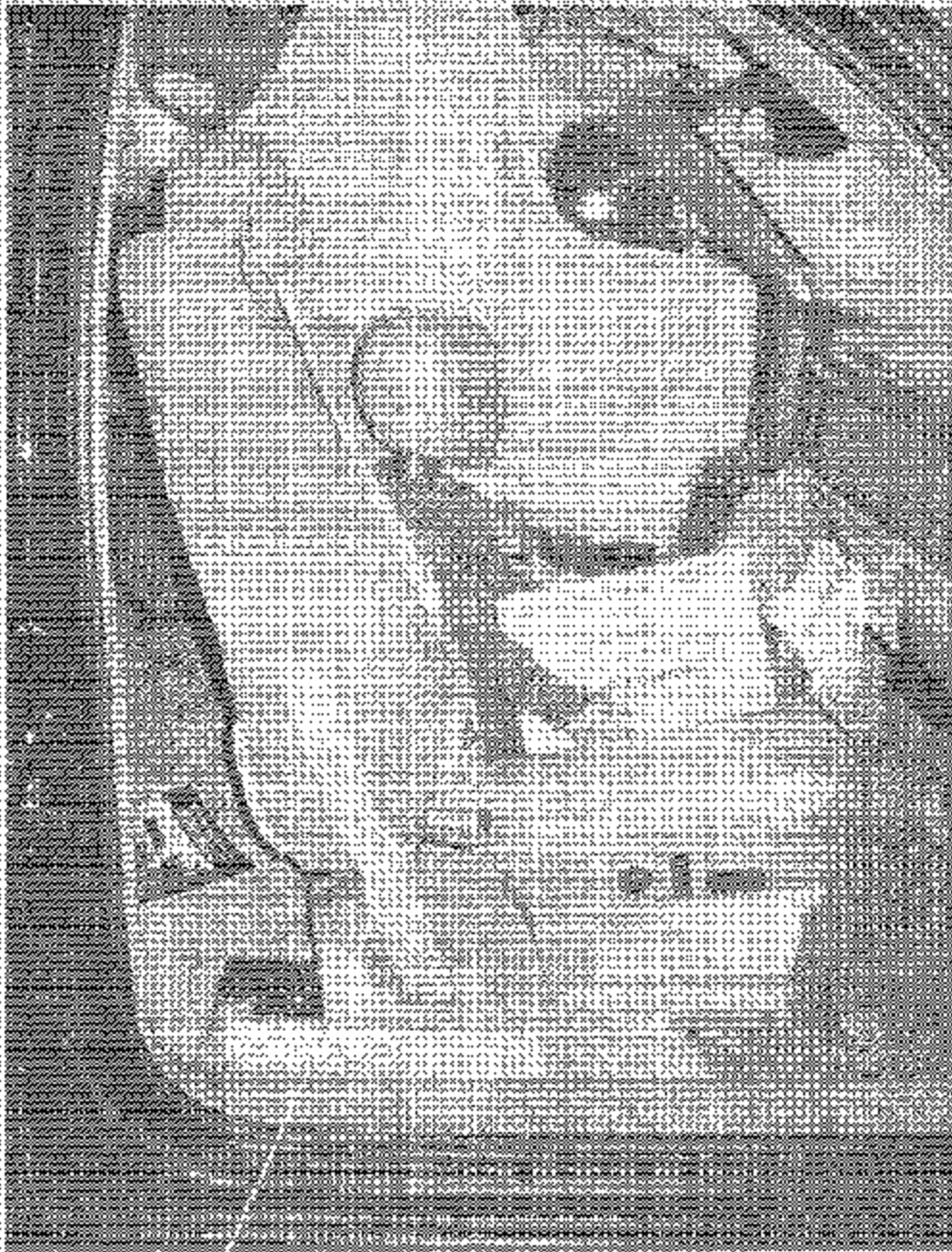


Figure 1. A-10 Thunderbolt II, On-Board with Pilot, Against a Star Field, Part of a Star Field.



Figure VIII - 4-Year Old Sitting On Sand With Stick Against Horizontal Stick Bank, Full Forward Seat Position

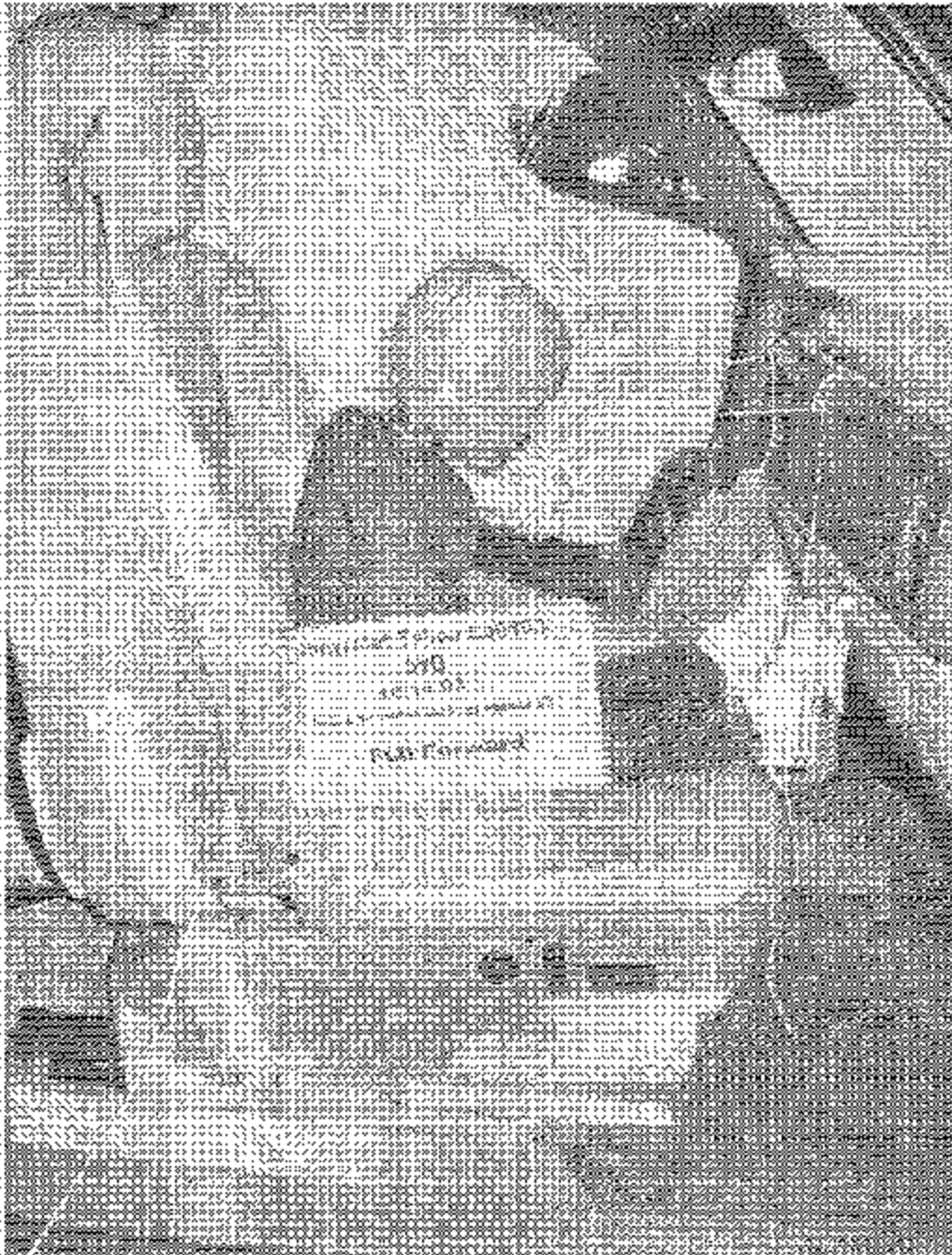


Figure 6.27. 3-Year Old sitting on Seat Wedge in the Non-Agitated Seat Back, Full Forward Seat Position.



Figure 1. A. A large, dark, rectangular object, possibly a piece of machinery or a large box, with a lighter-colored label or panel on its front. The image is grainy and has a high-contrast, halftone-like texture.



Figure 5.14: Standing in the Sunfacing Forward, Feet Forward Rear Position

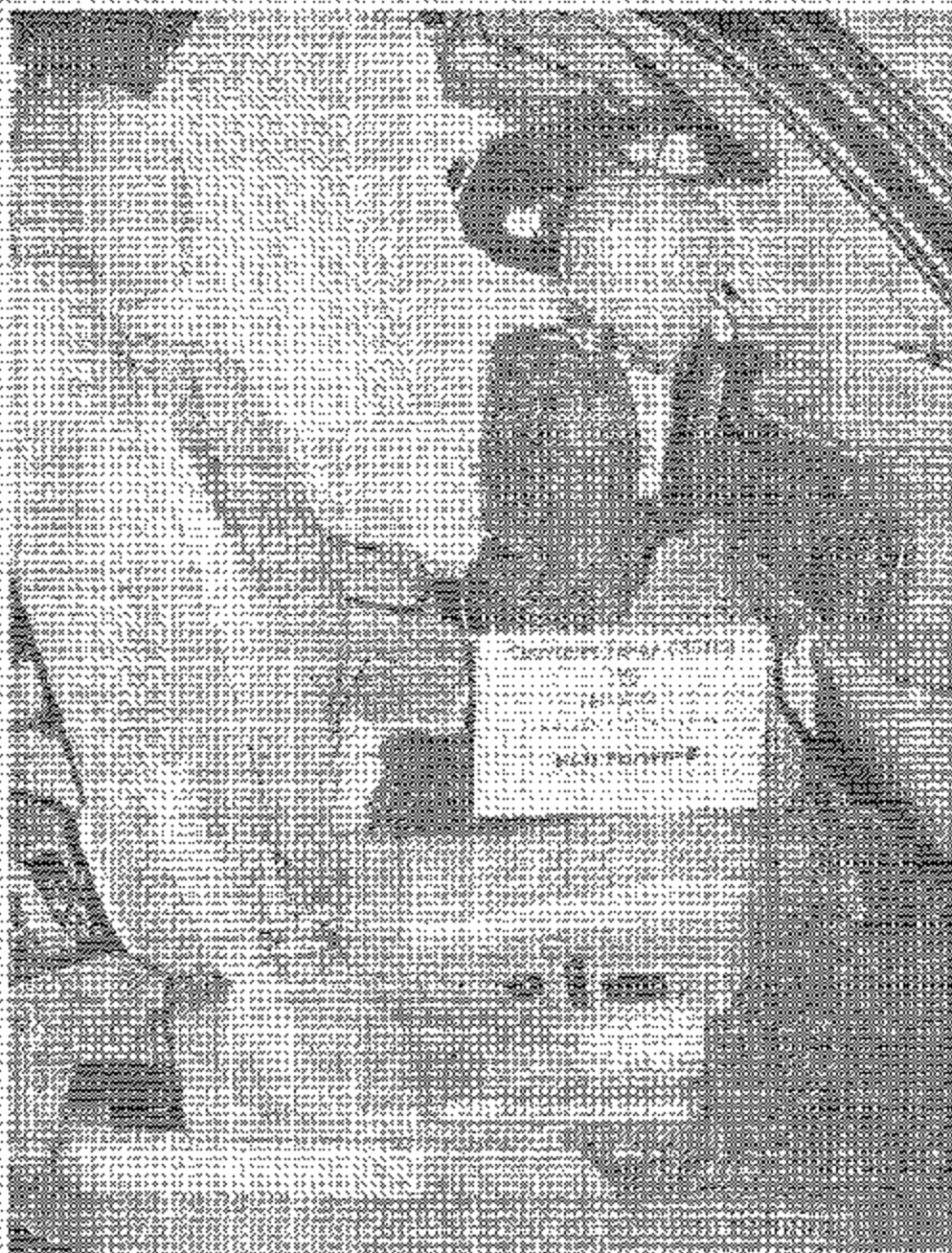


Figure 7-30: Recalling On Seat Facing Forward, Full Forward Seat Position



Figure 3-30: Kneeling, Elbow Forward, Elbow Forward, Full Forward Seat Position.



Figure 207 - A Very Old, Cheap, New Top Bowtie, Bold, Resistant Seal Design

(Which is actually 2003 Chevrolet Tahoe C3000)



Figure 1: White Chevrolet Tahoe, Registered to Kelly, Debra, 2001, San Jose, CA

(Vehicle is actually 2001 Chevrolet Tahoe LT00001)

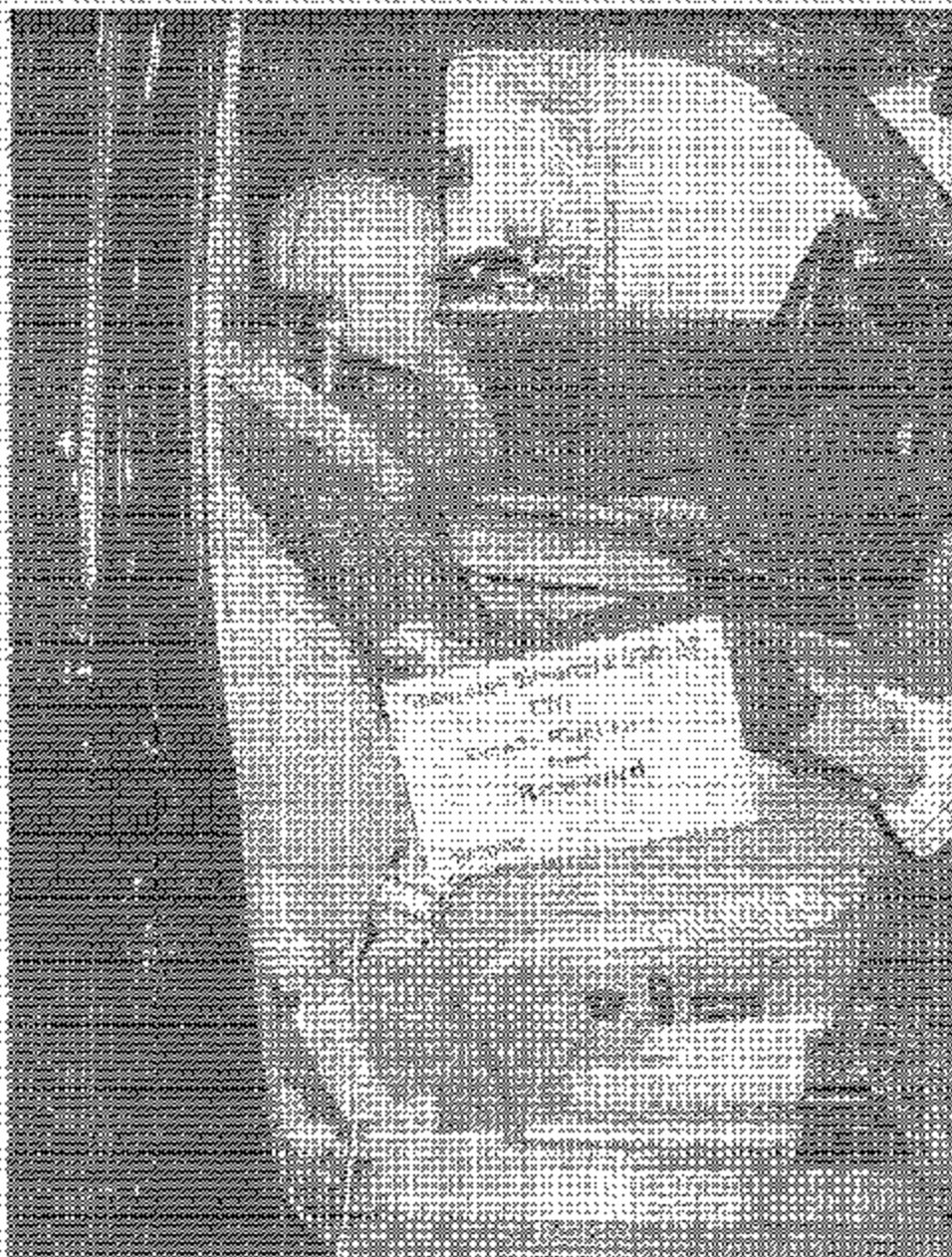


Figure 2: 6-Year Old, female child, 100% of her weight and height.

(Vehicle is actually 2013 Chevrolet Tahoe LS 4x4)

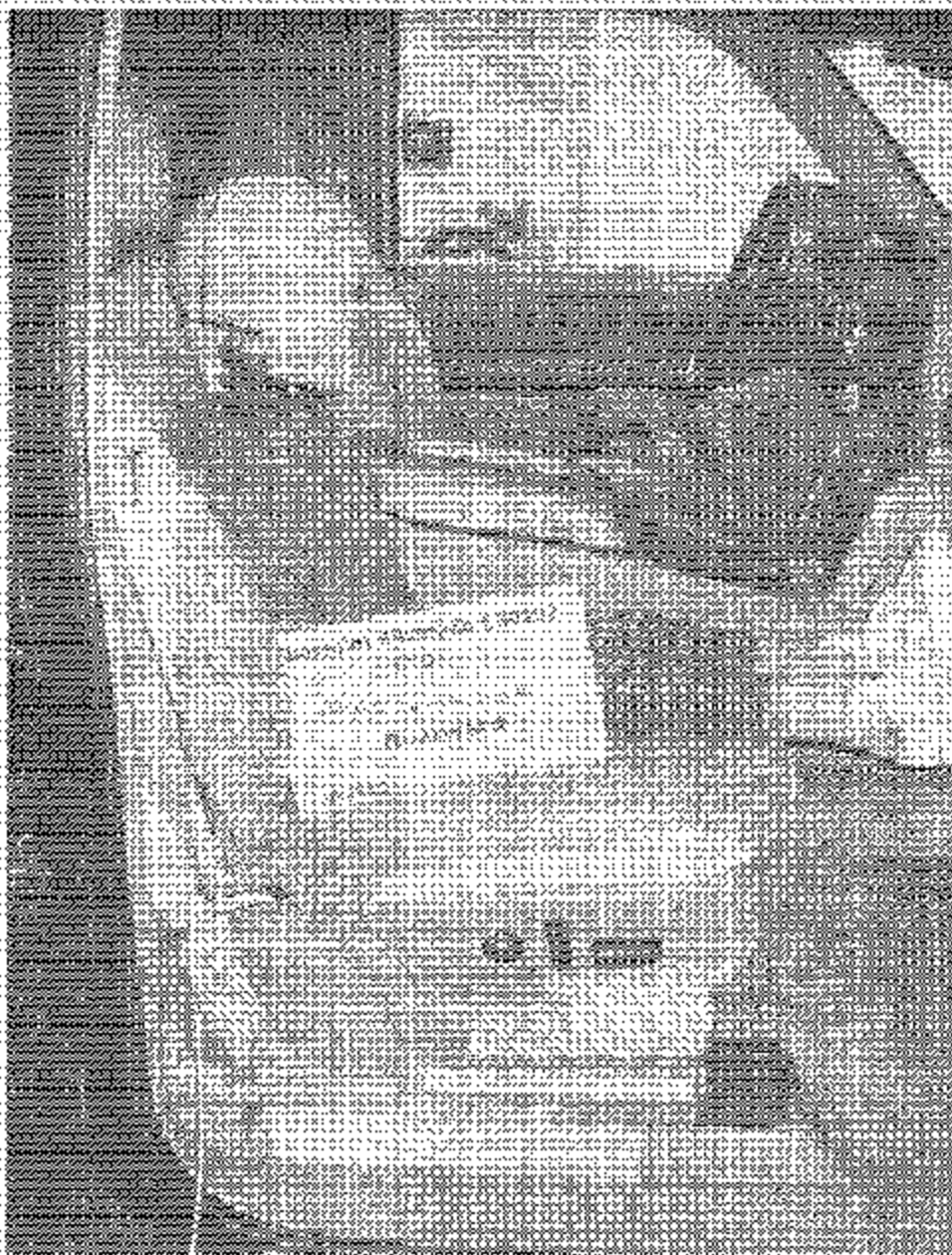


Figure 1: A man in a suit and tie, standing with his back to the camera, looking over his shoulder towards the right. (Note: This is a placeholder image for the actual document content.)

(Note: This is a placeholder image for the actual document content.)

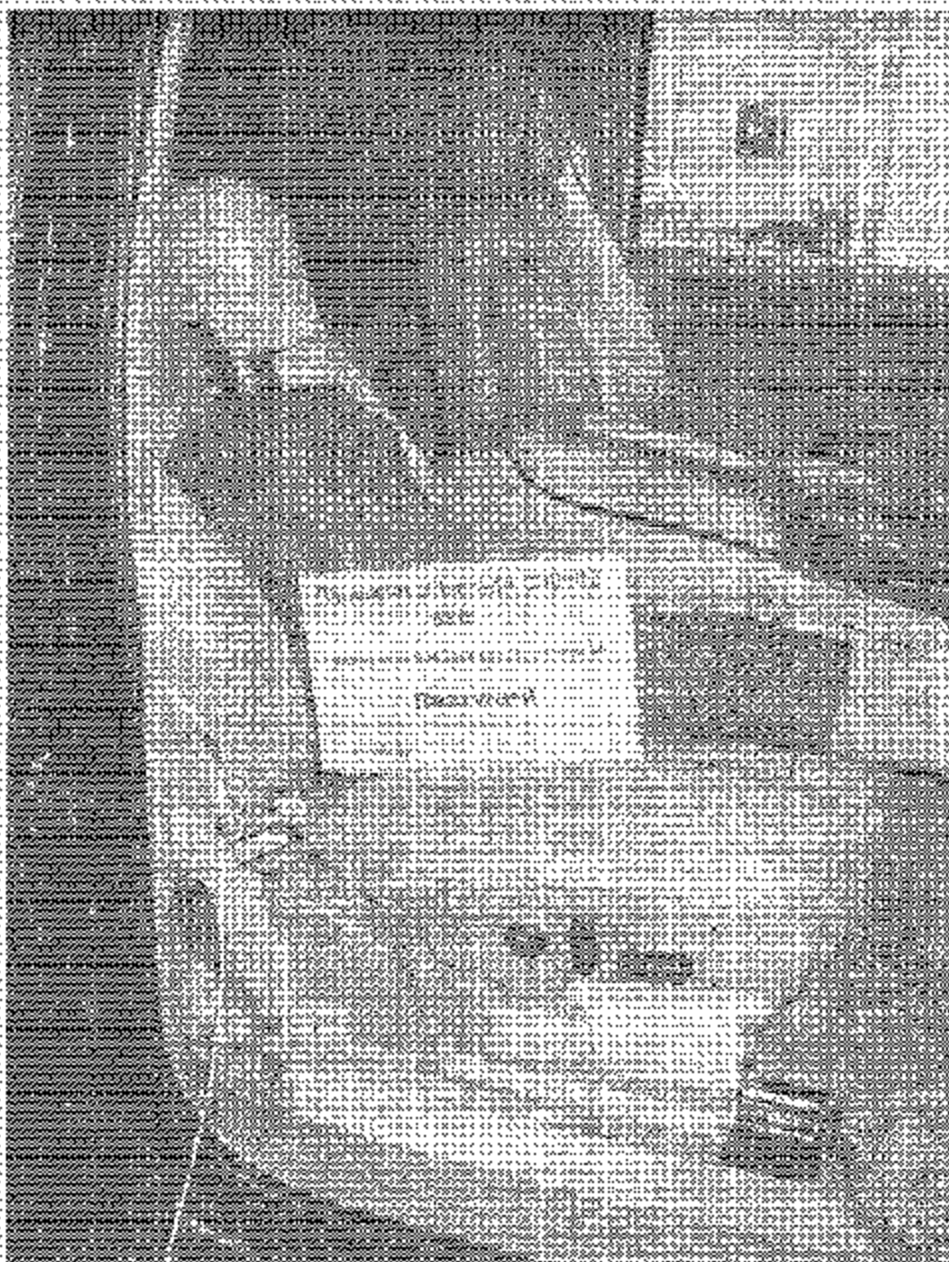


Figure 1: In New York Library On Sex With Jack Ruby, Agent of Martin, said Frank Hughes, a State Postman.
(Vehicle Cannadly 2005, L. Heron, Future & 10/10/21)

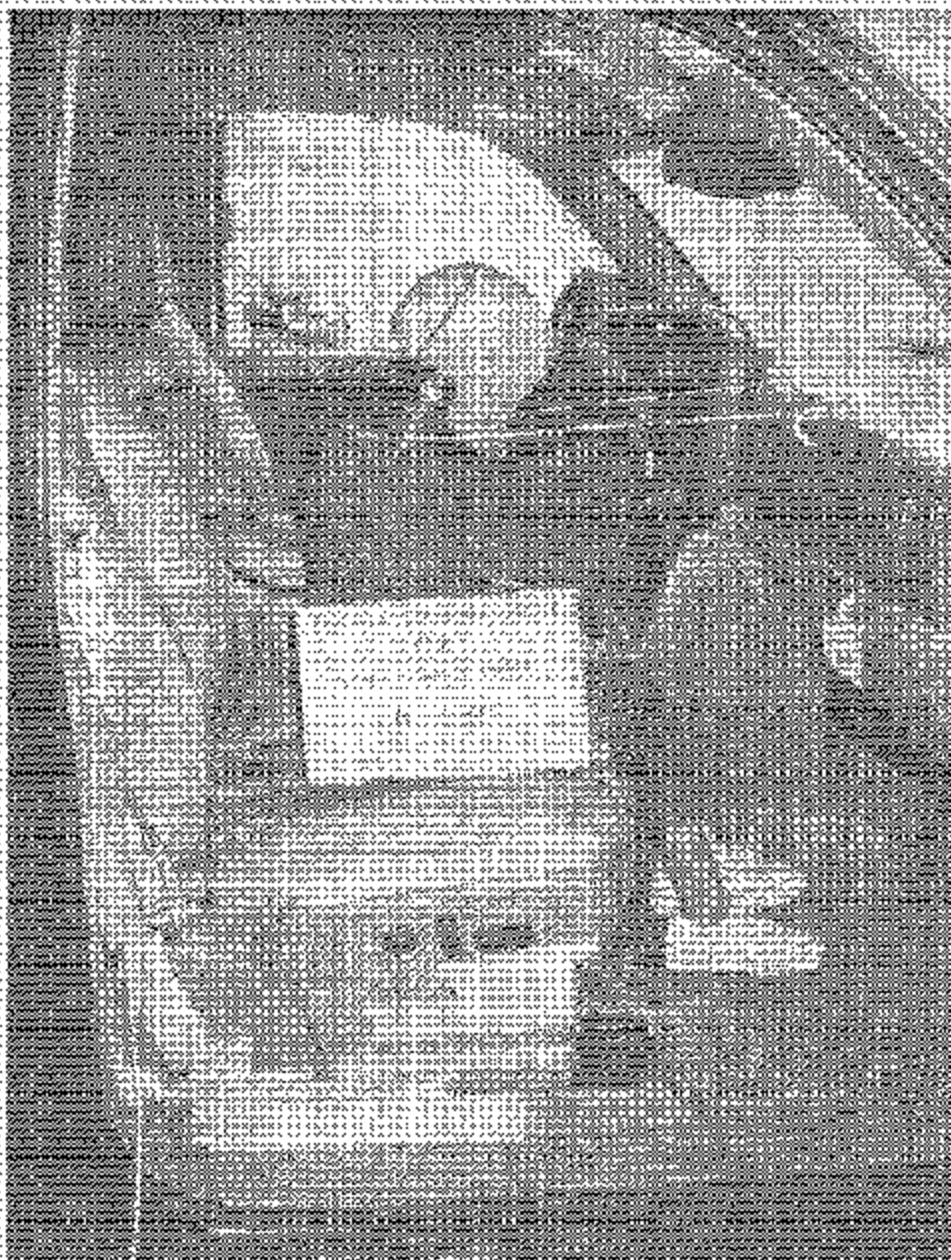


Figure 1-42. 6-Year Old Sitting On bench ledge, Spine Vertical, Head So The Forearm's Angle
 Rearview Seat Position (Vehicle is actually 1981 Chevrolet Tahoe LT3000)



Figure 7-43. 10 Year Old Back In The Seat And Lining In The Right Front Passenger Door, Keweenaw State
 Position (Vehicle is clearly 2003 Chevrolet Tahoe C3004N)



Figure 2-43. 5th Female Recruit, April 1967

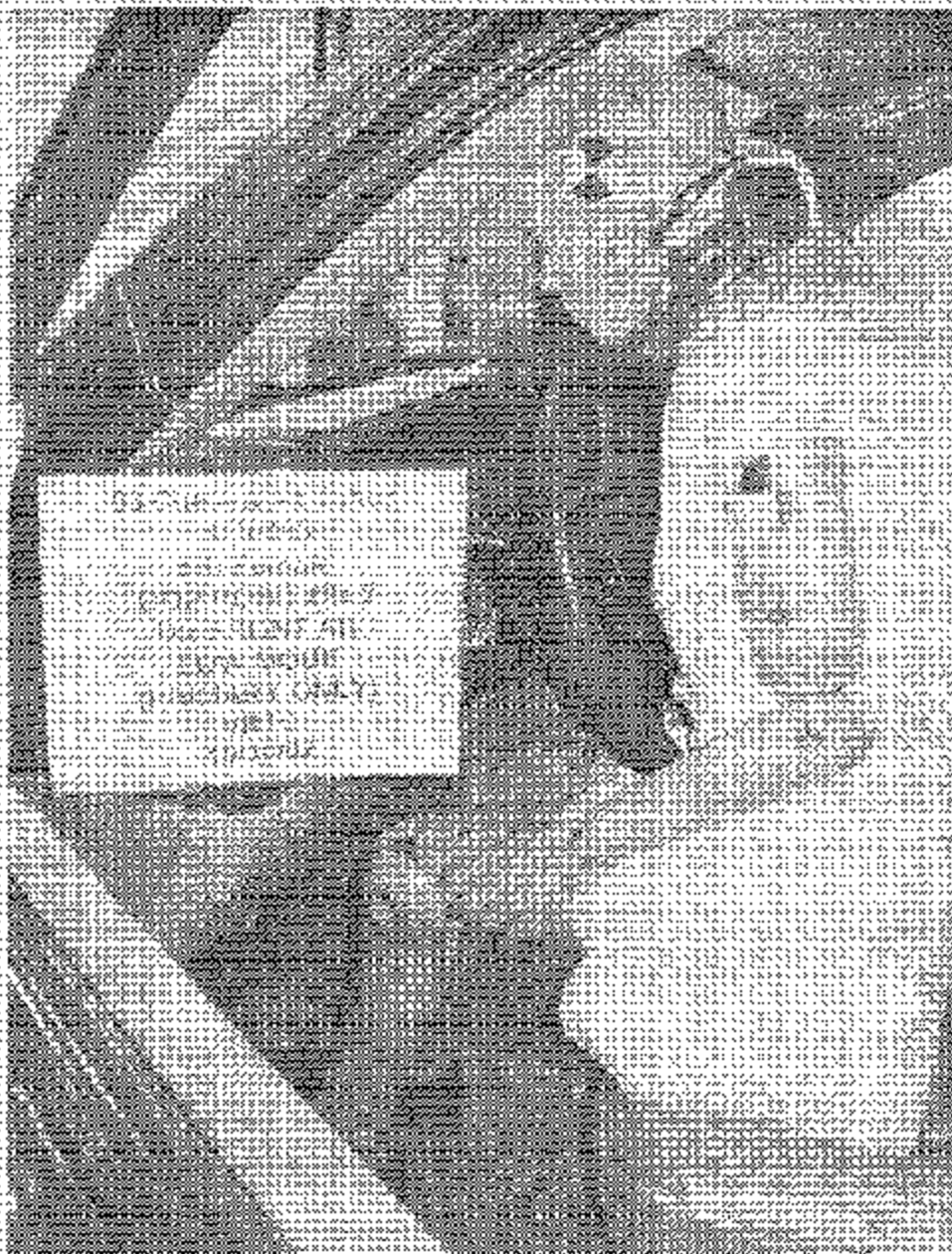


Figure 7.45. No Tax Drive, Low Risk, Dependent, Election Day, 1990-1991



Figure 2-45. Post-Ten Super-Luminal Deployment, Personnel Donning on Kilo