REPORT NUMBER: 208-MGA-2013-007

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

NISSAN MOTOR CO. LTD.
2013 NISSAN FRONTIER TRUCK
NHTSA NO.: C20135202

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

TEST DATES: APRIL 12, 2013 – MAY 21, 2013

FINAL REPORT DATE: JULY 12, 2013

FINAL REPORT

PREPARED FOR:
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
OFFICE OF ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
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WASHINGTON, D.C. 20590

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FINAL REPORT ACCEPTED BY OVSC:

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SECTION 1
PURPOSE OF COMPLIANCE TESTS

This Federal Motor Vehicle Safety Standard 208 compliance test is part of a program conducted for the National Highway Traffic Safety Administration (NHTSA) by MGA Research Corporation (MGA) under Contract No.: DTNH22-08-D-00086. The purpose of this test was to determine whether the subject vehicle, a 2013 Nissan Frontier Truck, NHTSA No.: C20135202, meets certain performance requirements of FMVSS 208, "Occupant Crash Protection"; FMVSS 212, "Windshield Mounting"; FMVSS 219, "Windshield Zone Intrusion" and FMVSS 301, "Fuel System Integrity". The compliance test was conducted in accordance with OVSC Laboratory Test Procedure No.: TP208-14 dated April 16, 2008.

SECTION 2

TESTS PERFORMED

Test Vehicle: 2013 Nissan Frontier Truck NHTSA No.: C20135202
Test Program: FMVSS 208 Compliance Test Dates: 4/12/13 - 5/21/13

The following checked items indicate the tests that were performed:

- [X] 1. Rear seating position seat belts
- [X] 2. Air bag labels (S4.5.1)
- [X] 3. Readiness indicator (S4.5.2)
- [X] 4. Passenger air bag manual cut-off device (S4.5.4)
- [X] 5. Lap belt lockability (S7.1.1.5)
- [X] 6. Seat belt warning system (S7.3)
- [X] 7. Seat belt contact force (S7.4.3)
- [X] 8. Seat belt latch plate access (S7.4.4)
- [X] 9. Seat belt retraction (S7.4.5)
- [X] 10. Seat belt guides and hardware (S7.4.6)
- [X] 11. Air bag suppression telltale (S19.2.2)
- [X] 12. Suppression tests with 12-month-old CRABI dummy (Part 572, Subpart R)
- [X] 13. Suppression tests with Newborn infant (Part 572, Subpart K)
- [X] 14. Suppression tests with 3-year-old dummy (Part 572, Subpart P)
- [X] 15. Suppression tests with 6-year-old dummy (Part 572, Subpart N)
- [X] 16. Test of Reactivation of the passenger air bag system with an unbelted 5th percentile female dummy.
- [ ] 17. Low risk deployment test with 12-month-old dummy (Part 572, Subpart R)
- [ ] 18. Low risk deployment test with 3-year-old dummy (Part 572, Subpart P)
- [ ] 19. Low risk deployment test with 6-year-old dummy (Part 572, Subpart N)
- [X] 20. Low risk deployment test with 5th female dummy (Part 572, Subpart O)
- [X] 21. Impact Tests
  - [ ] Frontal Oblique
    - [ ] Belted 50th male dummy driver and passenger (0 to 48 kmph) (S5.1.1(a))
    - [ ] Unbelted 50th male dummy driver and passenger (0 to 48 kmph) (S5.1.2(a)(1))
    - [ ] Unbelted 50th male dummy driver and passenger (32 to 40 kmph) (S5.1.2(a)(1) or S5.1.2(b))
  - [X] Frontal 0°
    - [ ] Belted 50th male dummy driver (0 to 48 kmph) (S5.1.1.(b)(1) or S5.1.1(a))
    - [ ] Belted 50th male dummy passenger (0 to 48 kmph) (S5.1.1.(b)(1) or S5.1.1(a))
    - [ ] Belted 5th female dummy driver (0 to 48 kmph) (S16.1(a))
    - [ ] Belted 5th female dummy passenger (0 to 48 kmph) (S16.1(a))
    - [X] Belted 5th female dummy driver and passenger ((0 to 56 kmph) (S16.1(a)(2))
    - [ ] Belted 50th male dummy driver and passenger (0 to 56 kmph) (S5.1.1.(b)(2))
    - [ ] Unbelted 50th male dummy driver and passenger (0 to 48 kmph) (S5.1.2(a) (1))
    - [ ] Unbelted 50th male dummy driver (32 to 40 kmph) (S5.1.2.(a)(2) or S5.1.2(b))
    - [ ] Unbelted 50th male dummy passenger (32 to 40 kmph) (S5.1.2.(a)(2) or S5.1.2(b))
    - [ ] Unbelted 5th female dummy driver (32 to 40 kmph) (S16.1(b))
    - [ ] Unbelted 5th female dummy passenger (32 to 40 kmph) (S16.1(b))
  - [ ] 40% Offset 0° Belted 5th female dummy driver and passenger (0 to 40 kmph) (S18.1)
- [ ] 22. FMVSS 204 Indicant Test
- [X] 23. FMVSS 212 Test
- [X] 24. FMVSS 219 Indicant Test
- [X] 25. FMVSS 301 Frontal Test
- [ ] 26. FMVSS 305 Frontal Indicant Test

For the crash tests, the vehicle was instrumented with 8 accelerometers. The data from the vehicle and dummies were sampled at 10,000 samples per second and processed as specified in SAE J211/1 MAR95 and FMVSS 208, S4.13.

The dynamic tests were recorded using high-speed digital video.

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

SECTION 3

INJURY RESULT SUMMARY FOR FMVSS 208 TESTS

Test Vehicle: 2013 Nissan Frontier Truck NHTSA No.: C20135202
Test Program: FMVSS 208 Compliance Test Date: 5/6/13

5th Percentile Female Low Risk Deployments

5th Percentile Female SN 510 Position 1 (Chin On Module) 5/6/13

Injury Criteria	Max. Allowable Injury Assessment Values	Measured Value
HIC15	700	15
Peak Nij (Nte)	1.0	0.6
Time (ms)	NA	38.3
Peak Nij (Ntf)	1.0	0.3
Time (ms)	NA	7.7
Peak Nij (Nce)	1.0	0.0
Time (ms)	NA	6.2
Peak Nij (Ncf)	1.0	0.0
Time (ms)	NA	10.5
Neck Tension	2070 N	1013
Neck Compression	2520 N	27
Chest g	60 g	9
Chest Displacement	52 mm	7
Left Femur	6805 N	74
Right Femur	6805 N	69

Second stage fire time of 30 ms; Injuries calculated on 0 ms to 155 ms.

5th Percentile Female SN 510 Position 2 (Chin On Rim) 5/6/13

Injury Criteria	Max. Allowable Injury Assessment Values	Measured Value
HIC15	700	12
Peak Nij (Nte)	1.0	0.4
Time (ms)	NA	16.4
Peak Nij (Ntf)	1.0	0.2
Time (ms)	NA	30.4
Peak Nij (Nce)	1.0	0.0
Time (ms)	NA	7.4
Peak Nij (Ncf)	1.0	0.0
Time (ms)	NA	2.7
Neck Tension	2070 N	713
Neck Compression	2520 N	8
Chest g	60 g	27
Chest Displacement	52 mm	27
Left Femur	6805 N	99
Right Femur	6805 N	25

Second stage fire time of 30 ms; Injuries calculated on 0 ms to 155 ms.

SECTION 3

INJURY RESULT SUMMARY FOR FMVSS 208 TESTS

Test Vehicle: 2013 Nissan Frontier Truck
Test Program: FMVSS 208 Compliance
NHTSA No.: C20135202
Test Date: 5/21/13

56 kmph Frontal Crash

Impact Angle:	0º			
Belted Dummies:		Yes	X	No

Speed Range:		0 to 40 kmph	X	32 to 40 kmph
		0 to 48 kmph		0 to 56 kmph

Test Speed (kmph):	55.5	Test Weight (kg):	2237.6

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

5th Percentile Female Frontal Crash Test
Vehicles certified to S16.1 (a) (1), S16.1 (a) (2), S16.1 (b), or S18.1

Injury Criteria	Max. Allowable Injury Assessment Values	Driver	Passenger
HIC15	700	338	434
N_{te}	1.0	0.7	0.8
N_{tf}	1.0	0.4	0.2
N_{ce}	1.0	0.3	0.2
N_{cf}	1.0	0.3	0.2
Neck Tension	2620 N	1875	1327
Neck Compression	2520 N	233	252
Chest g	60 g	57	47
Chest Displacement	52 mm	18	20
Left Femur	6805 N	2384	2556
Right Femur	6805 N	1945	2159

SECTION 4

DISCUSSION OF TESTS

Test Vehicle:	2013 Nissan Frontier Truck	NHTSA No.:	C20135202
Test Program:	FMVSS 208 Compliance	Test Dates:	4/12/13 - 5/21/13

A blanket and visor were not used in the suppression testing because they did not affect the sensing system used on the vehicle.

The Pre-test Dummy and FMVSS 301 Roll real time video for the frontal impact crash test was corrupted and is not available for this report.

There was no valid data after 40 msec on the Bottom of Engine (X) accelerometer during the frontal impact crash test.

An assessment of FMVSS 212 and FMVSS 219 were done for informational use only.

SECTION 5

TEST DATA SHEETS

Test Vehicle:	2013 Nissan Frontier Truck	NHTSA No.:	C20135202
Test Program:	FMVSS 208 Compliance	Test Dates:	4/12/13 - 5/21/13

DATA SHEET 1

COTR VEHICLE WORK ORDER

Test Vehicle: 2013 Nissan Frontier Truck
Test Program: FMVSS 208 Compliance
NHTSA No.: C20135202
Test Dates: 4/12/13 - 5/21/13

COTR Signature: Brian Smith

Test to be performed for this vehicle are checked below:

X	1.	Rear Seating Position Seat Belts
X	2.	Air Bag Labels (S4.5.1)
X	3.	Readiness Indicator (S4.5.2)
X	4.	Passenger Air Bag Manual Cut-off Device (S4.5.4)
X	5.	Lap Belt Lockability (S7.1.1.5)
X	6.	Seat Belt Warning System (S7.3)
X	7.	Seat Belt Contact Force (S7.4.3)
X	8.	Seat Belt Latch Plate Access (S7.4.4)
X	9.	Seat Belt Retraction (S7.4.5)
X	10.	Seat Belt Guides and Hardware (S7.4.6)
X	11.	Air bag suppression telltale (S19.2.2)
X	12.	Suppression tests with 12-month-old CRABI dummy (Part 572, Subpart R) using the following indicated child restraints (mid-height seat position):

Section B – Rear Facing (unbelted and belted rear facing, unbelted forward facing)

	Century Smart Fit 4543		Full Rearward		Mid Position		Full Forward
X	Cosco Arriva 22-013	X	Full Rearward	X	Mid Position	X	Full Forward
	Evenflo Discovery Adjust Right 212		Full Rearward		Mid Position		Full Forward
	Graco Infant 8457		Full Rearward		Mid Position		Full Forward
X	Graco Snugride	X	Full Rearward	X	Mid Position	X	Full Forward
X	Peg Perego Viaggio	X	Full Rearward	X	Mid Position	X	Full Forward

Section C – Convertible (unbelted and belted rear facing, unbelted and belted forward facing)

X	Britax Roundabout E9L02	X	Full Rearward	X	Mid Position	X	Full Forward
X	Cosco High Back Booster 22-209	X	Full Rearward	X	Mid Position	X	Full Forward
	Cosco Summit Deluxe 22-262		Full Rearward		Mid Position		Full Forward
	Cosco Touriva 02519		Full Rearward		Mid Position		Full Forward
X	Evenflo Generations 352	X	Full Rearward	X	Mid Position	X	Full Forward
	Evenflo Medallion 254		Full Rearward		Mid Position		Full Forward
	Evenflo Tribute V 379		Full Rearward		Mid Position		Full Forward
X	Graco ComfortSport	X	Full Rearward	X	Mid Position	X	Full Forward
	Graco Platinum Cargo		Full Rearward		Mid Position		Full Forward
	Graco Safeseat Step 2		Full Rearward		Mid Position		Full Forward

X	13.	Suppression tests with newborn infant (Part 572, Subpart K) using the following indicated child restraints (mid-height seat position).

Section A – Car Bed (Belted)

X	Angel Guard Angel Ride	X	Full Rearward	X	Mid Position	X	Full Forward

X	14.	Suppression tests with 3-year-old dummy (Part 572, Subpart P) using the following indicated child restraints where a child restraint is required (mid-height seat position):

Section C – Convertible (Belted forward-facing)

X	Britax Roundabout E9L02	X	Full Rearward	X	Mid Position	X	Full Forward
X	Cosco High Back Booster 22-209	X	Full Rearward	X	Mid Position	X	Full Forward
	Cosco Summit Deluxe 22-262		Full Rearward		Mid Position		Full Forward
	Cosco Touriva 02519		Full Rearward		Mid Position		Full Forward
X	Evenflo Generations 352	X	Full Rearward	X	Mid Position	X	Full Forward
	Evenflo Medallion 254		Full Rearward		Mid Position		Full Forward
	Evenflo Tribute V 379		Full Rearward		Mid Position		Full Forward
X	Graco ComfortSport	X	Full Rearward	X	Mid Position	X	Full Forward
	Graco Platinum Cargo		Full Rearward		Mid Position		Full Forward
	Graco Safeseat Step 2		Full Rearward		Mid Position		Full Forward

Section D – Toddler/Belt Positioning Booster (Belted)

	Britax Roadster 9004		Full Rearward		Mid Position		Full Forward
	Cosco High Back Booster 22-209		Full Rearward		Mid Position		Full Forward
X	Cosco Summit Deluxe 22-262	X	Full Rearward	X	Mid Position	X	Full Forward
	Evenflo Generations 352		Full Rearward		Mid Position		Full Forward
	Evenflo Right Fit 245		Full Rearward		Mid Position		Full Forward
X	Graco Platinum Cargo	X	Full Rearward	X	Mid Position	X	Full Forward

	15.	Suppression tests with representative 3-year-old child using the following indicated child restraints where a child restraint is required (mid-height position). (Appendix H, Data Sheet 19H and 20H)

Section C – Convertible (Belted forward-facing)

	Britax Roundabout E9L02		Full Rearward		Mid Position		Full Forward
	Cosco High Back Booster 22-209		Full Rearward		Mid Position		Full Forward
	Cosco Summit Deluxe 22-262		Full Rearward		Mid Position		Full Forward
	Cosco Touriva 02519		Full Rearward		Mid Position		Full Forward
	Evenflo Generations 352		Full Rearward		Mid Position		Full Forward
	Evenflo Medallion 254		Full Rearward		Mid Position		Full Forward
	Evenflo Tribute V 379		Full Rearward		Mid Position		Full Forward
	Graco ComfortSport		Full Rearward		Mid Position		Full Forward
	Graco Platinum Cargo		Full Rearward		Mid Position		Full Forward
	Graco Safeseat Step 2		Full Rearward		Mid Position		Full Forward

Section D – Toddler/Belt Positioning Booster (Belted)

	Britax Roadster 9004		Full Rearward		Mid Position		Full Forward
	Cosco High Back Booster 22-209		Full Rearward		Mid Position		Full Forward
	Evenflo Right Fit 245		Full Rearward		Mid Position		Full Forward

[X] 16. Suppression tests with 3-year-old dummy (Part 572, Subpart P) in the following positions (mid-height seat position):

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

[ ] 17. Suppression tests with representative 3-year-old child in the following positions (mid-height seat position):

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

[X] 18. Suppression tests with 6-year-old dummy (Part 572, Subpart N) using the following indicated child restraints where a child restraint is required (mid-height seat position):

Section D

[ ]	Britax Roadster 9004	[ ] Full Rearward	[ ] Mid Position	[ ] Full Forward
[ ]	Cosco High Back Booster 22-209	[ ] Full Rearward	[ ] Mid Position	[ ] Full Forward
[X]	Cosco Summit Deluxe 22-262	[X] Full Rearward	[X] Mid Position	[X] Full Forward
[ ]	Evenflo Right Fit 245	[ ] Full Rearward	[ ] Mid Position	[ ] Full Forward
[ ]	Evenflo Generations 352	[ ] Full Rearward	[ ] Mid Position	[ ] Full Forward
[X]	Graco Platinum Cargo	[X] Full Rearward	[X] Mid Position	[X] Full Forward

[ ] 19. Suppression tests with representative 6-year-old child using the following indicated child restraints where a child restraint is required (mid-height seat position):

Section D

- [ ] Britax Roadster 9004 — [ ] Full Rearward [ ] Mid Position [ ] Full Forward
- [ ] Cosco High Back Booster 22-209 — [ ] Full Rearward [ ] Mid Position [ ] Full Forward
- [ ] Cosco Summit Deluxe 22-262 — [ ] Full Rearward [ ] Mid Position [ ] Full Forward
- [ ] Evenflo Right Fit 245 — [ ] Full Rearward [ ] Mid Position [ ] Full Forward
- [ ] Evenflo Generations 352
- [ ] Graco Platinum Cargo — [ ] Full Rearward [ ] Mid Position [ ] Full Forward

[X] 20. Suppression tests with 6-year-old dummy (Part 572, Subpart N) in the following positions (mid-height seat position):

- [X] Sitting on seat with back against seat back (S22.2.2.1)
  - [X] Full Rearward [X] Mid Position [X] Full Forward
- [X] Sitting on seat with back against reclined seat back (S22.2.2.2)
  - [X] Full Rearward [X] Mid Position [X] Full Forward
- [X] Sitting on seat edge, spine vertical, hands by the child's side (S22.2.2.4)
  - [X] Full Rearward [X] Mid Position [X] Full Forward
- [X] Sitting back in the seat and leaning on the right front passenger door (S24.2.3)
  - [X] Full Rearward [X] Mid Position [X] Full Forward

[ ] 21. Suppression tests with representative 6-year-old child in the following positions (mid-height seat position):

- [ ] Sitting on seat with back against seat back (S22.2.2.1)
  - [ ] Full Rearward [ ] Mid Position [ ] Full Forward
- [ ] Sitting on seat with back against reclined seat back (S22.2.2.2)
  - [ ] Full Rearward [ ] Mid Position [ ] Full Forward
- [ ] Sitting on seat edge, spine vertical, hands by the child's side (S22.2.2.4)
  - [ ] Full Rearward [ ] Mid Position [ ] Full Forward
- [ ] Sitting back in the seat and leaning on the right front passenger door (S24.2.3)

[X] 22. Test of Reactivation of the Passenger Air Bag System with an Unbelted 5th percentile female dummy (S20.3, 22.3, S24.3) (mid-height seat position). Perform this test after the following suppression tests: After each restraint.

[ ] 23. Test of Reactivation of the Passenger Air Bag System with a representative 5th percentile female (S20.3, 22.3, S24.3) (mid-height seat position). Perform this test after the following suppression tests:

[ ] 24. Low risk deployment test with 12-month-old dummy (Part 572, Subpart R) using the following indicated child restraints (full forward, mid-height seat position)(S20.4):

Section B

- [ ] Century Smart Fit 4543
- [ ] Cosco Arriva 22-013
- [ ] Evenflo Discovery Adjust Right 212
- [ ] Graco Infant 8457
- [ ] Graco Snugride
- [ ] Peg Perego Viaggio

Section C

- [ ] Britax Roundabout E9L02
- [ ] Cosco Touriva 02519
- [ ] Evenflo Medallion 254
- [ ] Evenflo Tribute V 379
- [ ] Graco ComfortSport

[ ] 25. Low risk deployment test with 3-year-old dummy (Part 572, Subpart P) in the following positions:
- [ ] Position 1 (rearmost, lowest seat position)
- [ ] Position 2 (mid-height seat position)

[ ] 26. Low risk deployment test with 6-year-old dummy (Part 572, Subpart N) in the following positions:
- [ ] Position 1(rearmost, lowest seat position)
- [ ] Position 2 (mid-height seat position)

[X] 27. Low risk deployment test with 5th female dummy (Part 572, Subpart O) in the following positions:
- [X] Position 1 (mid-height seat position)
- [X] Position 2 (mid-height seat position)

[X] 28. Impact Tests
- [ ] Frontal Oblique Impact Angle: Test Speed:
  - [ ] Belted 50th male dummy driver and passenger (0 to 48 kmph) (S5.1.1(a))
  - [ ] Unbelted 50th male dummy driver and passenger (0 to 48 kmph) (S5.1.2(a)(1))
  - [ ] Unbelted 50th male dummy driver and passenger (32 to 40 kmph) (S5.1.2(a)(2) or S5.1.2(b))
- [X] Frontal 0° - Test Speed: 55.5 kmph
  - [ ] Belted 50th male dummy driver (0 to 48 kmph) (S5.1.1.(b)(1) or S5.1.1(a))
  - [ ] Belted 50th male dummy passenger (0 to 48 kmph) (S5.1.1.(b)(1) or S5.1.1(a))
  - [ ] Belted 5th female dummy driver (0 to 48 kmph) (S16.1(a)(1))
  - [ ] Belted 5th female dummy passenger (0 to 48 kmph) (S16.1(a)(1))
  - [X] Belted 5th female dummy driver and passenger ((0 to 56 kmph) (S16.1(a)(2))
  - [ ] Belted 50th male dummy driver and passenger (0 to 56 kmph) (S5.1.1.(b)(2))
  - [ ] Unbelted 50th male dummy driver and passenger (0 to 48 kmph) (S5.1.2(a) (1))
  - [ ] Unbelted 50th male dummy driver (32 to 40 kmph) (S5.1.2.(a)(2) or S5.1.2(b))
  - [ ] Unbelted 50th male dummy passenger (32 to 40 kmph) (S5.1.2.(a)(2) or S5.1.2(b))
  - [ ] Unbelted 5th female dummy driver (32 to 40 kmph) (S16.1(b))
  - [ ] Unbelted 5th female dummy passenger (32 to 40 kmph) (S16.1(b))
- [ ] 40% Offset 0° Belted 5th female dummy driver and passenger (0 to 40 kmph) (S18.1) Test Speed:

[ ] 29. FMVSS 204 Indicant Test
[X] 30. FMVSS 212 Test
[X] 31. FMVSS 219 Indicant Test
[X] 32. FMVSS 301 Frontal Test
[ ] 33. FMVSS 305 Indicant Test

DATA SHEET 2

REPORT OF VEHICLE CONDITION

Test Vehicle: 2013 Nissan Frontier Truck NHTSA No.: C20135202
Test Program: FMVSS 208 Compliance Test Dates: 4/12/13 – 5/21/13

CONTRACT NO.: DTNH22-08-D-00086 Date: 5/28/2013

FROM (Lab and rep name): MGA Research Corporation

TO: NHTSA, OVSC, NVS-220

PURPOSE: (X) Initial Receipt ( ) Received via Transfer (X) Present vehicle condition

MODEL YEAR/MAKE/MODEL/BODY STYLE:	2013 Nissan Frontier Truck		
MANUFACTURE DATE:	02/13		
NHTSA NO.	C20135202	GVWR:	2638 kg (5815 lbs)
BODY COLOR:	Silver	GAWR (Fr):	1495 kg (3296 lbs)
VIN:	1N6AD0EVXDN719534	GAWR (Rr):	1511 kg (3331 lbs)

ODOMETER READINGS:	ARRIVAL (miles):	57	DATE:	4/5/13
	COMPLETION (miles):	62	DATE:	5/21/13
PURCHASE PRICE: ($)	$25,800			
DEALER'S NAME:	Boucher Fleet Group, 1421 E. Moreland Blvd. Waukesha, WI 53186			

A. All options listed on window sticker are present on the test vehicle:
___ Yes ___ No

B. Tires and wheel rims are new and the same as listed: _X_ Yes ___ No

C. There are no dents or other interior or exterior flaws: _X_ Yes ___ No

D. The vehicle has been properly prepared and is in running condition:
_X_ Yes ___ No

E. Keyless remote is available and working: _X_ Yes ___ No

F. The glove box contains an owner's manual, warranty document, consumer information, and extra set of keys: _X_ Yes ___ No

G. Proper fuel filler cap is supplied on the test vehicle: _X_ Yes ___ No

H. Using permanent marker, identify vehicle with NHTSA number and FMVSS test type(s) on roof line above driver door or for school buses, place a placard with NHTSA number inside the windshield and to the exterior front and rear side of bus:
_X_ Yes ___ No

I. Place vehicle in storage area: _X_ Yes ___ No

J. Inspect the vehicle's interior and exterior, including all windows, seats, doors, etc. to confirm that each system is complete and functional per the manufacturer's specifications. Any damage, misadjustment, or other unusual condition that could influence the test program or test results shall be recorded. Report any abnormal condition to the NHTSA COTR before beginning any test:
_X_ Vehicle OK ___ Conditions reported below in comment section

Identify the letter above to which any of the following comments apply.
Comments:_____

_____

REPORT OF VEHICLE CONDITION AT THE COMPLETION OF TESTING

LIST OF FMVSS TESTS PERFORMED BY THIS LAB: FMVSS 208, 212, 219, 301

VEHICLE: 2013 Nissan Frontier Truck NHTSA NO.: C20135202

REMARKS:

Equipment that is no longer on the test vehicle as noted on previous page:

Jack and Tools, Rear Floor Mats

Explanation for equipment removal:

Components removed for instrumentation installation and to meet target weight.

Test Vehicle Condition:

35 mph frontal impact damage- front suspension & structure damaged, hood & front quarter panels damaged, radiator damaged, air bags & pretensioners deployed, Stoddard in fuel system

RECORDED BY: Jeff Lewandowski DATE: 5/28/2013

APPROVED BY: David Winkelbauer DATE: 5/28/2013

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

RELEASE OF TEST VEHICLE

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

Date: Time: Odometer:

Lab Rep's Signature:

Title:

Carrier/Customer Rep:

Date:

DATA SHEET 3

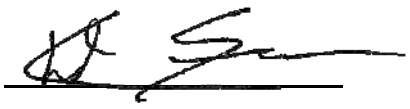
CERTIFICATION LABEL AND TIRE PLACARD INFORMATION

Test Vehicle: 2013 Nissan Frontier Truck
Test Program: FMVSS 208 Compliance
Test Technician: Chad Seebecker

NHTSA No.: C20135202
Test Date: 5/21/13

Certification Label (Part 567)	
Manufacturer:	NISSAN MOTOR CO. LTD.
Date of Manufacture:	02/13
VIN:	1N6AD0EVXDN719534
Vehicle Certified As (Pass. Car/MPV/Truck/Bus):	TRUCK
Front Axle GVWR:	1495 kg (3296 lbs)
Rear Axle GVWR:	1511 kg (3331 lbs)
Total GVWR:	2638 kg (5815 lbs)

Tire Placard for Motor Vehicles with GVWR of 10,000 lb or Less and Passenger Cars (571.110)	
Vehicle Capacity Weight:	575 kg (1268 lbs)
Designated Seating Capacity Front:	2
Designated Seating Capacity Rear:	3
Total Designated Seating Capacity:	5
Recommended Cold Tire Inflation Pressure Front:	240 kpa (35 psi)
Recommended Cold Tire Inflation Pressure Rear:	240 kpa (35 psi)
Recommended Tire Size:	P265/70R16
Tire Size on Vehicle:	P265/70R16

Signature:  Date: 5/21/13

DATA SHEET 4

REAR SEATING POSITION SEAT BELTS

Test Vehicle: 2013 Nissan Frontier Truck
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

NHTSA No.: C20135202
Test Date: 4/12/13

	Yes	No
Do all rear seating positions have Type 2 seat belts?	X	

If NO, describe the seat belt installed, the seat location, and any other information about the seat that would explain why a Type 2 seat belt was not installed.

REMARKS:

Signature: Wayne Dahlke Date: 4/12/13

DATA SHEET 5

AIR BAG LABELS (S4.5.1)

Test Vehicle: 2013 Nissan Frontier Truck NHTSA No.: C20135202
Test Program: FMVSS 208 Compliance Test Date: 4/12/13
Test Technician: Wayne Dahlke

[X] 1. Air Bag Maintenance Label and Owner's Manual Instructions: (S4.5.1(a))

[X] 1.1 Does the manufacturer recommend periodic maintenance or replacement of the air bag?

[ ] Yes (Go to 1.2)
[X] No (Go to 2)

[ ] 1.2 Does the vehicle have a label specifying air bag maintenance or replacement?

[ ] Yes – Pass
[ ] No – Fail

[ ] 1.3 Does the label contain one of the following?

[ ] Yes – Pass
[ ] No – Fail

Check applicable schedule:

__ Schedule on label specifies month and year (Record date_____)

__ Schedule on label specifies vehicle mileage (Record mileage_____)

__ Schedule on label specifies interval measured from date on certification label (Record interval_____)

[ ] 1.4 Is the label permanently affixed within the passenger compartment such that it cannot be removed without destroying or defacing the label or vehicle part? (3/19/01 legal interpretation to Todd Mitchell)

[ ] Yes – Pass
[ ] No – Fail

[ ] 1.5 Is the label lettered in English?

[ ] Yes – Pass
[ ] No – Fail

[ ] 1.6 Is the label in block capitals and numerals?

[ ] Yes – Pass
[ ] No – Fail

[ ] 1.7 Are the letters and numerals at least 3/32 inches high?

[ ] Yes – Pass
[ ] No – Fail

[ ] 1.8 Does the owner's manual set forth the recommended schedule for maintenance or replacement?

[X] 2. Does the owner's manual: (S4.5.1(f))

[X] 2.1 Include a description of the vehicle's air bag system in an easily understandable format?

[X] Yes – Pass
[ ] No – Fail

[X] 2.2 Include a statement that the vehicle is equipped with an air bag and a lap/shoulder belt at the front outboard seating position?

[X] Yes – Pass
[ ] No – Fail

[X] 2.3 Include a statement that the air bag is a supplemental restraint at the front outboard seating position?

[X] Yes – Pass
[ ] No – Fail

X 2.4 Emphasize that all occupants, including the driver, should always wear their seat belts whether or not an air bag is also provided at their seating positions to minimize the risk of severe injury or death in the event of a crash?
- X Yes – Pass
- ☐ No – Fail

X 2.5 Provide any necessary precautions regarding the proper positioning of occupants, including children, at seating positions equipped with air bags to ensure maximum safety protection for those occupants?
- X Yes – Pass
- ☐ No – Fail

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

X 2.7 Is the vehicle certified to meet the requirements of S14.5, S15, S17, S19, S21, S23, and S25? (Obtain answer to this question from the COTR) (S4.5.1(f)(2))
- X Yes – (Go to 2.7.1)
- ☐ No – (Go to 3.)

X 2.7.1 Explain the proper functioning of the advanced air bag system? (S4.5.1(f)(2))
- X Yes – Pass
- ☐ No – Fail

X 2.7.2 Provide a summary of the actions that may affect the proper functioning of the system? (S4.5.1(f)(2))
- X Yes – Pass
- ☐ No – Fail

X 2.7.3 Present and explain the main components of the advanced passenger air bag system? (S4.5.1(f)(2)(i))
- X Yes – Pass
- ☐ No – Fail

X 2.7.4 Explain how the components function together as part of the advanced passenger air bag system? (S4.5.1(f)(2)(ii))
- X Yes – Pass
- ☐ No – Fail

X 2.7.5 Contain the basic requirements for proper operation, including an explanation of the actions that may affect the proper functioning of the system? (S4.5.1(f)(2)(iii))
- X Yes – Pass
- ☐ No – Fail

X 2.7.6 Is the vehicle certified to the requirements of S19.2, S21.2, or 23.2 (automatic suppression)?
- X Yes, continue with 2.7.6
- ☐ No, go to 2.7.7

X 2.7.6.1 Contain a complete description of the passenger air bag suppression system installed in the vehicle, including a discussion of any suppression zone? (S4.5.1(f)(2)(iv))
- X Yes – Pass
- ☐ No – Fail

X 2.7.6.2 Discuss the telltale light, specifying its location in the vehicle and explaining when the light is illuminated?
- X Yes – Pass
- ☐ No – Fail

X 2.7.7 Explain the interaction of the advanced passenger air bag system with other vehicle components, such as seat belts, seats or other components? (S4.5.1(f)(2)(v))
- X Yes – Pass
- ☐ No – Fail

X 2.7.8 Summarize the expected outcomes when child restraint systems, children and small teenagers or adults are both properly and improperly positioned in the passenger seat, including cautionary advice against improper placement of child restraint systems? (S4.5.1(f)(2)(vi))

X Yes – Pass
 No – Fail

X 2.7.9 Provide information on how to contact the vehicle manufacturer concerning modifications for persons with disabilities that my affect the advanced air bag system? (S4.5.1(f)(2)(vii))

X Yes – Pass
 No – Fail

X 3. Sun Visor Air Bag Warning Label (S4.5.1(b)): Vehicles certified to meet the requirements of S19, S21 and S23. (S4.5.1(b)(3))

X 3.1 Is the label permanently affixed (including permanent marking on the visor material or molding into the visor material) to either side of the sun visor at each front outboard seating position such that it cannot be removed without destroying or defacing the label or the sun visor? (S4.5.1(b)(3)) (3/19/01 legal interpretation to Todd Mitchell)

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

X 3.2 Does the label conform in content to the label shown in Figure 11 at each front outboard seating position? (S4.5.1(b)(2)) **(Vehicles without back seats or the back seat is too small to accommodate a rear-facing child restraint may omit the statement: "Never put a rear-facing child seat in the front." (S4.5.1(b)(3)(v)))**

Figure 11. Sun Visor Label Visible when Visor is in Down Position.

Figure 6b. Sun Visor Label Visible When Visor is in Down Position.

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

X 3.3 Is the label heading area yellow with the word "WARNING" and the alert symbol in black? (S4.5.1(b)(3)(i))

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

X 3.4 Is the message area white with black text? (S4.5.1(b)(3)(ii))

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

X 3.5 Is the message area at least 30 cm^2? (S4.5.1(b)(3)(ii))

The message area consists of the total label area minus the yellow heading area and the pictogram. The pictogram is enclosed on the left side and bottom by the edge of the label. The top edge of the pictogram area is defined by a horizontal line midway between the uppermost edge of the pictogram and the lowermost edge of the text. The right side of the pictogram is defined by a vertical line midway between the rightmost edge of the pictogram and the left most edge of the text, including any bullets. (See 5/6/03 interpretation to Gerald Plante on behalf of Subaru)

Driver Side: Length 83 mm, Width 54 mm
Passenger Side: Length 83 mm, Width 54 mm
Driver actual message area 44.8 cm^2
Passenger actual message area 44.8 cm^2

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

X 3.6 Is the pictogram black on a white background? (S4.5.1(b)(3)(iii))

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

X 3.7 Is the pictogram at least 30 mm in length? (S4.5.1(b)(3)(iii))

Driver side: Length: 31 mm
Passenger side: Length: 31 mm

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

X 3.8 Is the same side of the sun visor that contains the air bag warning label free of other information with the exception of the air bag maintenance label and/or the rollover-warning label? (S4.5.1(b)(5)(i))

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

X 3.9 Is the sun visor free of other information about air bags or the need to wear seat belts with the exception of the air bag alert label and/or the rollover-warning label? (S4.5.1(b)(5)(ii))

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

X 3.10 Does the driver side visor contain a rollover-warning label on the same side of the visor as the air bag warning label?

_X_ Yes (go to 3.10.1)

__ No (go to 4., skipping 3.10.1 through 3.10.3)

X 3.10.1 Are both the rollover-warning label and the air bag warning label surrounded by a continuous solid-lined border?

__ Yes (go to 3.10.2 and skip 3.10.3)

X No (go to 3.10.3 and skip 3.10.2)

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

_____ actual distance

__ Yes-Pass __**No-FAIL**

X 3.10.3 Is the shortest distance from any of the lettering or graphics on the rollover-warning label to any of the lettering or graphics of the air bag warning label at least 3 cm? (575.105 (d)(1)(iv)(A))

___3.4___actual distance

X Yes-Pass __**No-FAIL**

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

X 4.1 Is the Sun Visor Warning Label visible when the sun visor is in the stowed position?

- X **If yes for driver and passenger, go to 5**.
- X Driver Side, Yes
- Driver Side, No
- X Passenger Side, Yes
- Passenger Side, No

4.2 Is the air bag alert label permanently affixed (including permanent marking on the visor material or molding into the visor material) to the sun visor at each front outboard seating position such that it cannot be removed without destroying or defacing the label or the sun visor? (S4.5.1(c)) (3/19/01 legal interpretation to Todd Mitchell)

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

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

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

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

Figure 6c. Sun Visor Label Visible When Visor is in Up Position.

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

☐ 4.5 Is the message area black with yellow text? (S4.5.1(c)(1))

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

☐ 4.6 Is the message area at least 20 cm^2? (S4.5.1(c)(1)) **The message area consists of the black part of the label.**

Driver Side: Length_____, Width_____
Passenger Side: Length_____, Width_____
Actual message area _____ cm^2

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

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

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

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

Driver Side: Diameter _____mm

Passenger Side: Diameter _____mm

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

☒ 5. Label on the Dashboard: Vehicles certified to meet the requirements of S19, S21 and S23?

☒ 5.1 Does the vehicle have a label on the dash or steering wheel hub? (S4.5.1(e)(3))

- ☐ Yes – Pass **The label was missing and it could not be determined when it was removed. Therefore it was not evaluated.**
- ☐ No – Fail

☐ 5.2 Is the label clearly visible from all front seating positions? (S4.5.1(e)(3))

- ☐ Yes – Pass
- ☐ No – Fail

☐ 5.3 Does the label conform in content to the label shown in Figure 12? (S4.5.1(e)(3)) **Vehicles without back seats may omit the statement: "The back seat is the safest place for children." Vehicles without back seats or too small to accommodate a rear-facing child restraint consistent with S4.5.4.1 as determined in DATA SHEET 7 may omit the statement "Never put a rear-facing child seat in the front." (S4.5.1(e)(3)(iii)))**

☐ Yes – Pass
☐ No - Fail

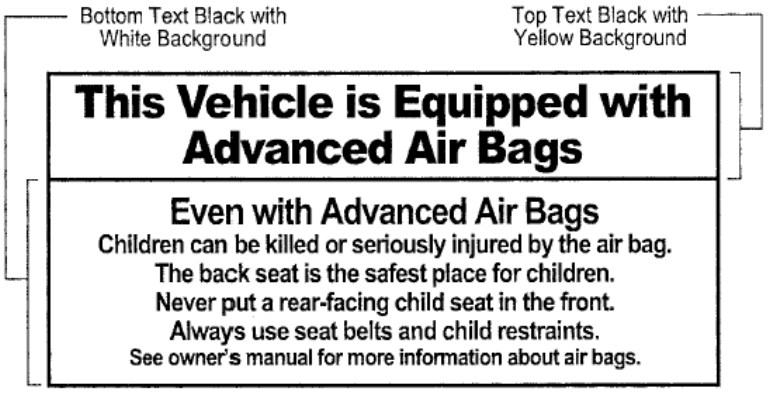


Figure 12. Removable Label on Dash.

☐ 5.4 Is the heading area yellow with black text? (S4.5.1(e)(3)(i))

☐ Yes – Pass
☐ No - Fail

☐ 5.5 Is the message white with black text? (S4.5.1(e)(3)(ii))

☐ Yes – Pass
☐ No - Fail

☐ 5.6 Is the message area at least 30 cm^2? (S4.5.1(e)(3)(ii)) **The message area consists of the total label area minus the yellow heading area. (See 5/6/03 interpretation to Gerald Plante on behalf of Subaru)**

Length ____mm, Width ____mm

Actual message area _____ cm^2

☐ Yes – Pass
☐ No - Fail

I certify that I have read and performed each instruction.

Signature: Wayne Dahl Date: 4/12/13

DATA SHEET 6

FMVSS 208 READINESS INDICATOR (S4.5.2)

Test Vehicle: 2013 Nissan Frontier Truck NHTSA No.: C20135202
Test Program: FMVSS 208 Compliance Test Date: 4/12/13
Test Technician: Wayne Dahlke

An occupant restraint system that deploys in the event of a crash shall have a monitoring system with a readiness indicator. A totally mechanical system is exempt from this requirement. (11/8/94 legal interpretation to Lawrence F. Hennegerger on behalf of Breed)

[X] 1. Is the system totally mechanical? **(If Yes, this Data Sheet is complete).**
- [ ] Yes
- [X] No

[X] 2. Describe the location of the readiness indicator: *Center of Cluster*

[X] 3. Is the readiness indicator clearly visible to the driver?
- [X] Yes – Pass
- [ ] No - Fail

[X] 4. Is a list of the elements in the occupant restraint system, being monitored by the readiness indicator, provided on a label or in the owner's manual?
- [X] Yes – Pass
- [ ] No - Fail

[X] 5. Does the vehicle have an on-off switch for the passenger air bag?
- [ ] If Yes (go to 6)
- [X] If No (this form is complete)

[ ] 6. Is the air bag readiness indicator off when the passenger air bag switch is in the off position?
- [ ] Yes – Pass
- [ ] No - Fail

REMARKS:

I certify that I have read and performed each instruction.

Signature: Wayne Dahlke Date: 4/12/13

DATA SHEET 7

PASSENGER AIR BAG MANUAL CUT-OFF DEVICE (S4.5.4)

Test Vehicle: 2013 Nissan Frontier Truck NHTSA No.: C20135202
Test Program: FMVSS 208 Compliance Test Date: 4/12/13
Test Technician: Wayne Dahlke

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

[ ] 2. Does the vehicle have any forward-facing rear designated seating positions? (S4.5.4.1(a))
- [ ] Yes, go to 3
- [ ] No, go to 4

[ ] 3. Verification there is room for a child restraint in the rear seat behind the driver's seat. (S4.5.4.1(b))

[ ] 3.1 Using all the controls that affect the fore-aft movement of the seat, move the seat to the rearmost position. Mark this position.
- [ ] N/A – the seat does not have fore-aft adjustment

[ ] 3.2 Using all the controls that affect the fore-aft movement of the seat, move the seat to the foremost position. Mark this position.
- [ ] N/A – the seat does not have fore-aft adjustment

[ ] 3.3 Move the seat to the middle of the foremost and rearmost positions. (S8.1.2)
- [ ] N/A – the seat does not have a fore-aft adjustment

[ ] 3.4 If the driver's seat height is adjustable, use all the controls that affect height to put it in the lowest position while maintaining the middle fore-aft position. (S8.1.2)
- [ ] N/A – No seat height adjustment

[ ] 3.5 Position the driver's seat adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)
- [ ] N/A – No lumbar adjustment

[ ] 3.6 The driver's seat back angle, if adjustable, is set at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. (S4.5.4.1(b) and S8.1.3)
- [ ] N/A – No seat back angle adjustment
- [ ] Manufacturer's design driver's seat back angle _____
- [ ] Tested driver's seat back angle _____

[ ] 3.7 Is the driver seat a bucket seat?
- [ ] __ Yes, go to 3.7.1 and skip 3.7.2.
- [ ] __ No, go to 3.7.2 and skip 3.7.1.

[ ] 3.7.1 Bucket seats:

[ ] 3.7.1.1 Locate and mark a vertical Plane B through the longitudinal centerline of the driver's seat cushion. The longitudinal centerline of a bucket seat cushion is determined at SgRP. (S16.3.1.10) (S4.5.4.1(b)(1))

[ ] 3.7.1.2 Locate the longitudinal horizontal line in plane B that is tangent to the highest point of the rear seat cushion behind the driver's seat. Measure along this line from the front of the seat back of the rear seat to the rear of the seat back of the driver's seat.
- ____ mm distance
- ____ less than 720 mm – Pass
- ____ more than 720 mm – **FAIL**

Go to 4

[ ] 3.7.2 Bench seats (including split bench seats):

[ ] 3.7.2.1 Locate and mark a vertical Plane B through the center of the steering wheel parallel to the vehicle longitudinal centerline. (S4.5.4.1(b)(2))

☐ 3.7.2.2 Locate the longitudinal horizontal line in plane B that is tangent to the highest point of the rear seat cushion. Measure along this line from the front of the seat back of the rear seat to the rear of the seat back of the front seat.
____ mm distance
____ less than 720 mm – Pass
____ more than 720 mm - **FAIL**
Go to 4

☐ 4. Does the device turn the air bag on and off using the vehicle's ignition key? (S4.5.4.2)
☐ Yes – Pass
☐ No – Fail

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

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

☐ 7. Telltale light (S4.5.4.3)

☐ 7.1 Is the light yellow? (S4.5.4.3(a))
☐ Yes – Pass
☐ No – Fail

☐ 7.2 Are the words "PASSENGER AIR BAG OFF" or "PASS AIR BAG OFF" (S4.5.4.3(b))

☐ 7.2.1 on the telltale?
☐ Yes – Pass, go to 7.3
☐ No – go to 7.2.2

☐ 7.2.2 Within 25 mm of the telltale?
☐ Measurement from the edge of the telltale light (mm):
☐ Yes – Pass
☐ No – Fail

☐ 7.3 Does the telltale remain illuminated while the air bag is turned off? (S4.5.4.3c))
(Leave the air bag off for 5 minutes.)
☐ Yes – Pass
☐ No – Fail

☐ 7.4 Is the telltale illuminated while the air bag is turned on? (S4.5.4.3(d))
☐ Yes – Fail
☐ No – Pass

☐ 7.5 Is the telltale combined with the air bag readiness indicator? (S4.5.4.3(e))
☐ Yes – Fail
☐ No – Pass

☐ 8. Owner's Manual

☐ 8.1 Does the owner's manual contain complete instructions on the operation of the on-off switch? (S4.5.4.4(a))
☐ Yes – Pass
☐ No – Fail

☐ 8.2 Does the owner's manual contain a statement that the on-off switch should only be used when a member of one of the following risk groups is occupying the right front passenger seating position? (S4.5.4.4(b))

Infants:	there is no back seat
	the rear seat is too small to accommodate a child restraint
	there is a medical condition that must be monitored constantly
Children aged 1 to 12:	there is no back seat
	space is not always available in the rear seat
	there is a medical condition that must be monitored constantly
Medical condition:	medical risk causes special risk for passenger
	greater risk for harm than with the air bag on

☐ Yes – Pass
☐ No – Fail

☐ 8.3 Does the owner's manual contain a warning about the safety consequences of using the on-off switch at other times?

☐ Yes – Pass
☐ No – Fail

REMARKS:

Signature: Wayne Gahl Date: 4/12/13

I certify that I have read and performed each instruction.

DATA SHEET 8

LAP BELT LOCKABILITY

Passenger cars, trucks, buses, and multipurpose passenger Vehicles with a GVWR of 10,000 pounds or less. (S7.1.1.5)

Test Vehicle: 2013 Nissan Frontier Truck
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

NHTSA No.: C20135202
Test Date: 4/12/13

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

DESIGNATED SEATING POSITION:	Front Passenger

		N/A – No retractor is at this position
		N/A – The retractor is an automatic locking retractor ONLY
X	1.	Record test fore-aft seat position: **REAR** (S7.1.1.5(c)(1)) (Any position is acceptable)
X	2.	Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does **NOT** have to be attached by the vehicle user to the seat belt webbing, retractor, or any other part of the vehicle. (S7.1.1.5(a))
		X Yes – Pass
		No – Fail
X	3.	Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does **NOT** require inverting, twisting or deforming of the belt webbing. (S7.1.1.5(a))
		X Yes – Pass
		No – Fail
X	4.	Place any adjustable seat belt anchorage in the lowest adjustment position.
		N/A The anchorage is not adjustable.
X	5.	Buckle the seat belt. (S7.1.1.5(c)(1))
X	6.	Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2))
X	7.	Locate a reference point B on the attachment hardware or retractor assembly at the other end of the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))
X	8.	Does the vehicle user need to take some action to activate the locking feature on the lap belt portion of the seat belt in any forward-facing seat or seat that can be adjusted to forward-facing?
		X Yes (go to 8.1)
		No (go to 9)
X	8.1	Does the vehicle owner's manual include a description in words and/or diagrams describing how to activate the locking feature so that the seat belt assembly can tightly secure a child restraint system and how to deactivate the locking feature to remove the child restraint system. (S7.1.1.5(b))
		X Yes – Pass
		No – Fail
X	9.	Adjust the lap belt or lap belt portion of the seat belt assembly according to any procedures recommended in the vehicle owner's manual to activate any locking feature so that the webbing between points A and B is at the maximum length allowed by the belt system. (S7.1.1.5(c)(2) & S7.1.1.5(c)(1))

X 10. Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))

X Measured distance between A and B (inches): 73 ½

X 11. Readjust the belt system so that the webbing between points A and B is at ½ the maximum length of the webbing. (S7.1.1.5(c)(3))

X 12. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))

X Measured force application angle: 10° (spec. 5 - 15 degrees)

X 13. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))

X Measured distance between A and B: 39 ¼ inches

X 14. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))

Record onset rate: 15 lb/sec (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5))

Measured distance between A and B: 39 ½ inches (S7.1.1.5(c)(6))

X 15. Let the seat belt webbing retract to its minimum length with the seat belt still buckled.

X 16. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))

Measured force application angle: 10° (spec. 5 - 15 degrees)

X 17. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))

Measured distance between A and B: 26 inches

X 18. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))

Record onset rate: 15 lb/sec (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5))

Measured distance between A and B: 26 ¾ inches (S7.1.1.5(c)(6))

X 19. Subtract the measurement in 13 from the measurement in 14 and the measurement in 17 from the measurement in 18. Is the difference 2 inches or less for both? (S7.1.1.5(c)(7))

X 14 – 13 = 39 ½ - 39 ¼ = ¼ inch;

X 18 – 17 = 26 ¾ - 26 = ¾ inch

X Yes – Pass

No – Fail

X 20. Subtract the measurement in 14 from the measurement in 10 and the measurement in 18 from the measurement in 10. Is the difference 3 inches or more for both? (S7.1.1.5(c)(8))

X 10-14 = 73 ½ - 39 ½ = 34 inches;

X 10-18 = 73 ½ - 26 ¾ = 46 ¾ inches

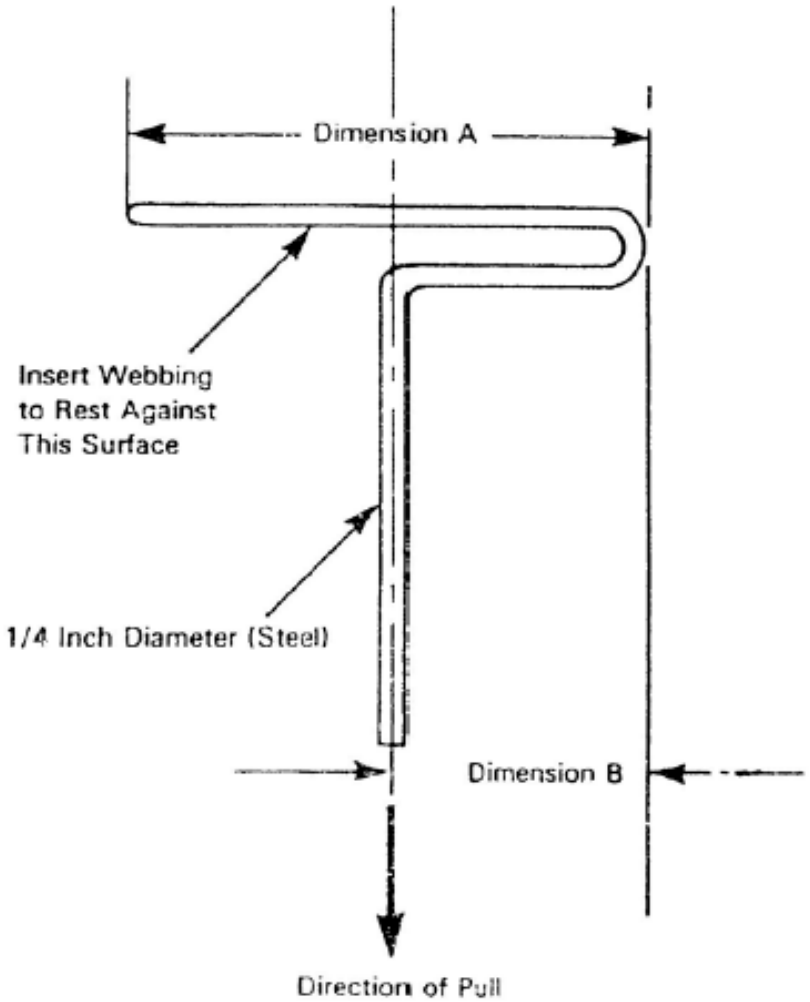
X Yes – Pass

No – Fail

REMARKS:

Signature: Wayne Dahl Date: 4/12/13

I certify that I have read and performed each instruction.



Dimension A - Width of Webbing Plus 1/2 Inch

Dimension B - 1/2 of Dimension A

Figure 5. - Webbing Tension Pull Device

DATA SHEET 8

LAP BELT LOCKABILITY

Passenger cars, trucks, buses, and multipurpose passenger Vehicles with a GVWR of 10,000 pounds or less. (S7.1.1.5)

Test Vehicle: 2013 Nissan Frontier Truck
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

NHTSA No.: C20135202
Test Date: 4/12/13

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

DESIGNATED SEATING POSITION:	Left Rear Passenger

		N/A – No retractor is at this position
		N/A – The retractor is an automatic locking retractor ONLY
X	1.	Record test fore-aft seat position: **Rear** (S7.1.1.5(c)(1)) (Any position is acceptable)
X	2.	Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does **NOT** have to be attached by the vehicle user to the seat belt webbing, retractor, or any other part of the vehicle. (S7.1.1.5(a))
		X Yes – Pass
		No – Fail
X	3.	Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does **NOT** require inverting, twisting or deforming of the belt webbing. (S7.1.1.5(a))
		X Yes – Pass
		No – Fail
X	4.	Place any adjustable seat belt anchorage in the lowest adjustment position.
		X N/A The anchorage is not adjustable.
X	5.	Buckle the seat belt. (S7.1.1.5(c)(1))
X	6.	Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2))
X	7.	Locate a reference point B on the attachment hardware or retractor assembly at the other end of the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))
X	8.	Does the vehicle user need to take some action to activate the locking feature on the lap belt portion of the seat belt in any forward-facing seat or seat that can be adjusted to forward-facing?
		X Yes (go to 8.1)
		No (go to 9)
X	8.1	Does the vehicle owner's manual include a description in words and/or diagrams describing how to activate the locking feature so that the seat belt assembly can tightly secure a child restraint system and how to deactivate the locking feature to remove the child restraint system? (S7.1.1.5(b))
		X Yes – Pass
		No – Fail
X	9.	Adjust the lap belt or lap belt portion of the seat belt assembly according to any procedures recommended in the vehicle owner's manual to activate any locking feature so that the webbing between points A and B is at the maximum length allowed by the belt system. (S7.1.1.5(c)(2) & S7.1.1.5(c)(1))

X 10. Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))

X Measured distance between A and B (inches): 70 ¾

X 11. Readjust the belt system so that the webbing between points A and B is at ½ the maximum length of the webbing. (S7.1.1.5(c)(3))

X 12. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))

X Measured force application angle: 10° (spec. 5 - 15 degrees)

X 13. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))

X Measured distance between A and B: 41 inches

X 14. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))

Record onset rate: 15 lb/sec (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5))

Measured distance between A and B: 41 inches (S7.1.1.5(c)(6))

X 15. Let the seat belt webbing retract to its minimum length with the seat belt still buckled.

X 16. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))

Measured force application angle: 10° (spec. 5 - 15 degrees)

X 17. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))

Measured distance between A and B: 16 inches

X 18. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))

Record onset rate: 15 lb/sec (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5))

Measured distance between A and B: 16 ½ inches (S7.1.1.5(c)(6))

X 19. Subtract the measurement in 13 from the measurement in 14 and the measurement in 17 from the measurement in 18. Is the difference 2 inches or less for both? (S7.1.1.5(c)(7))

X 14 – 13 = 41 - 41 = 0 inch;

X 18 – 17 = 16 ½ - 16 = ½ inch

X Yes – Pass

No – Fail

[X] 20. Subtract the measurement in 14 from the measurement in 10 and the measurement in 18 from the measurement in 10. Is the difference 3 inches or more for both? (S7.1.1.5(c)(8))

[X] 10-14 = 70 ¾ - 41 = 29 ¾ inches;

[X] 10-18 = 70 ¾ - 16 ½ = 54 ¼ inches

[X] Yes – Pass

[ ] No – Fail

REMARKS:

Signature: Wayne Dahl Date: 4/12/13

I certify that I have read and performed each instruction.

DATA SHEET 8

LAP BELT LOCKABILITY

Passenger cars, trucks, buses, and multipurpose passenger Vehicles with a GVWR of 10,000 pounds or less. (S7.1.1.5)

Test Vehicle: 2013 Nissan Frontier Truck
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

NHTSA No.: C20135202
Test Date: 4/12/13

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

DESIGNATED SEATING POSITION:	Center Rear Passenger

[ ] N/A – No retractor is at this position
[ ] N/A – The retractor is an automatic locking retractor ONLY

[X] 1. Record test fore-aft seat position: **FIXED** (S7.1.1.5(c)(1)) (Any position is acceptable)

[X] 2. Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does **NOT** have to be attached by the vehicle user to the seat belt webbing, retractor, or any other part of the vehicle. (S7.1.1.5(a))
- [X] Yes – Pass
- [ ] No – Fail

[X] 3. Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does **NOT** require inverting, twisting or deforming of the belt webbing. (S7.1.1.5(a))
- [X] Yes – Pass
- [ ] No – Fail

[X] 4. Place any adjustable seat belt anchorage in the lowest adjustment position.
- [X] N/A The anchorage is not adjustable.

[X] 5. Buckle the seat belt. (S7.1.1.5(c)(1))

[X] 6. Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2))

[X] 7. Locate a reference point B on the attachment hardware or retractor assembly at the other end of the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))

[X] 8. Does the vehicle user need to take some action to activate the locking feature on the lap belt portion of the seat belt in any forward-facing seat or seat that can be adjusted to forward-facing?
- [X] Yes (go to 8.1)
- [ ] No (go to 9)

[X] 8.1 Does the vehicle owner's manual include a description in words and/or diagrams describing how to activate the locking feature so that the seat belt assembly can tightly secure a child restraint system and how to deactivate the locking feature to remove the child restraint system? (S7.1.1.5(b))
- [X] Yes – Pass
- [ ] No – Fail

[X] 9. Adjust the lap belt or lap belt portion of the seat belt assembly according to any procedures recommended in the vehicle owner's manual to activate any locking feature so that the webbing between points A and B is at the maximum length allowed by the belt system. (S7.1.1.5(c)(2) & S7.1.1.5(c)(1))

X 10. Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))

X Measured distance between A and B (inches): 69 ½

X 11. Readjust the belt system so that the webbing between points A and B is at ½ the maximum length of the webbing. (S7.1.1.5(c)(3))

X 12. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))

X Measured force application angle: 10° (spec. 5 - 15 degrees)

X 13. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))

X Measured distance between A and B: 35 inches

X 14. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))

Record onset rate: 15 lb/sec (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5))

Measured distance between A and B: 35 ¼ inches (S7.1.1.5(c)(6))

X 15. Let the seat belt webbing retract to its minimum length with the seat belt still buckled.

X 16. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))

Measured force application angle: 10° (spec. 5 - 15 degrees)

X 17. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))

Measured distance between A and B: 10 ¾ inches

X 18. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))

Record onset rate: 15 lb/sec (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5))

Measured distance between A and B: 11 ½ inches (S7.1.1.5(c)(6))

X 19. Subtract the measurement in 13 from the measurement in 14 and the measurement in 17 from the measurement in 18. Is the difference 2 inches or less for both? (S7.1.1.5(c)(7))

X 14 – 13 = 35 ¼ - 35 = ¼ inch;

X 18 – 17 = 11 ½ - 10 ¾ = ¾ inch;

X Yes – Pass

No – Fail

[X] 20. Subtract the measurement in 14 from the measurement in 10 and the measurement in 18 from the measurement in 10. Is the difference 3 inches or more for both? (S7.1.1.5(c)(8))

[X] 10-14 = 69 ½ – 35 ¼ = 34 ¼ inches;

[X] 10-18 = 69 ½ – 11 ½ = 58 inches;

[X] Yes – Pass

[ ] No – Fail

REMARKS:

Signature: Wayne Dahl Date: 4/12/13

I certify that I have read and performed each instruction.

DATA SHEET 8

LAP BELT LOCKABILITY

Passenger cars, trucks, buses, and multipurpose passenger Vehicles with a GVWR of 10,000 pounds or less. (S7.1.1.5)

Test Vehicle: 2013 Nissan Frontier Truck
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

NHTSA No.: C20135202
Test Date: 4/12/13

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

DESIGNATED SEATING POSITION:	Right Rear Passenger

[ ] N/A – No retractor is at this position
[ ] N/A – The retractor is an automatic locking retractor ONLY

[X] 1. Record test fore-aft seat position: **Rear** (S7.1.1.5(c)(1)) (Any position is acceptable)

[X] 2. Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does **NOT** have to be attached by the vehicle user to the seat belt webbing, retractor, or any other part of the vehicle. (S7.1.1.5(a))
- [X] Yes – Pass
- [ ] No – Fail

[X] 3. Does the lap belt portion of the seat belt in the forward-facing seat or seat that can be adjusted to forward-facing consist of a locking device that does **NOT** require inverting, twisting or deforming of the belt webbing. (S7.1.1.5(a))
- [X] Yes – Pass
- [ ] No – Fail

[X] 4. Place any adjustable seat belt anchorage in the lowest adjustment position.
- [X] N/A The anchorage is not adjustable.

[X] 5. Buckle the seat belt. (S7.1.1.5(c)(1))

[X] 6. Locate a reference point A on the seat belt buckle. (S7.1.1.5(c)(2))

[X] 7. Locate a reference point B on the attachment hardware or retractor assembly at the other end of the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))

[X] 8. Does the vehicle user need to take some action to activate the locking feature on the lap belt portion of the seat belt in any forward-facing seat or seat that can be adjusted to forward-facing?
- [X] Yes (go to 8.1)
- [ ] No (go to 9)

[X] 8.1 Does the vehicle owner's manual include a description in words and/or diagrams describing how to activate the locking feature so that the seat belt assembly can tightly secure a child restraint system and how to deactivate the locking feature to remove the child restraint system? (S7.1.1.5(b))
- [X] Yes – Pass
- [ ] No – Fail

[X] 9. Adjust the lap belt or lap belt portion of the seat belt assembly according to any procedures recommended in the vehicle owner's manual to activate any locking feature so that the webbing between points A and B is at the maximum length allowed by the belt system. (S7.1.1.5(c)(2) & S7.1.1.5(c)(1))

X 10. Measure and record the distance between points A and B along the longitudinal centerline of the webbing for the lap belt or lap belt portion of the seat belt assembly. (S7.1.1.5(c)(2))

X Measured distance between A and B (inches): 71

X 11. Readjust the belt system so that the webbing between points A and B is at ½ the maximum length of the webbing. (S7.1.1.5(c)(3))

X 12. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))

X Measured force application angle: 10° (spec. 5 - 15 degrees)

X 13. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))

X Measured distance between A and B: 39 ¾ inches

X 14. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))

Record onset rate: 15 lb/sec (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5))

Measured distance between A and B: 39 ¾ inches (S7.1.1.5(c)(6))

X 15. Let the seat belt webbing retract to its minimum length with the seat belt still buckled.

X 16. To the lap belt or lap belt portion of the seat belt assembly, apply a preload of 10 pounds using the webbing tension pull device in Figure 5. Apply the load in a vertical plane parallel to the longitudinal axis of the vehicle and passing through the seating reference point of the designated seating position. Apply the preload in a horizontal direction toward the front of the vehicle with a force application angle of not less than 5 degrees nor more than 15 degrees above the horizontal. (S7.1.1.5(c)(4))

Measured force application angle: 10° (spec. 5 - 15 degrees)

X 17. Measure the length between points A and B along the longitudinal centerline of the webbing while the preload is being applied. (S7.1.1.5(c)(4))

Measured distance between A and B: 16 inches

X 18. Increase the load to 50 pounds at a rate of no more than 50 pounds per second. Attain the load in not more than 5 seconds. (If webbing sensitive emergency locking retractors are installed as part of the lap belt or lap belt portion of the seat belt assembly, apply the load at a rate less than the threshold value for lock-up specified by the manufacturer.) Maintain the load for at least 5 seconds. Measure and record the distance between points A and B along the longitudinal centerline of the webbing. (S7.1.1.5(c)(5))

Record onset rate: 15 lb/sec (spec. 10 to 50 lb/sec) (S7.1.1.5(c)(5))

Measured distance between A and B: 17 inches (S7.1.1.5(c)(6))

X 19. Subtract the measurement in 13 from the measurement in 14 and the measurement in 17 from the measurement in 18. Is the difference 2 inches or less for both? (S7.1.1.5(c)(7))

X 14 – 13 = 39 ¾ – 39 ¾ = 0 inch;

X 18 – 17 = 17 – 16 = 1 inch

X Yes – Pass

No – Fail

[X] 20. Subtract the measurement in 14 from the measurement in 10 and the measurement in 18 from the measurement in 10. Is the difference 3 inches or more for both? (S7.1.1.5(c)(8))

[X] 10-14 = 71 – 39 ¾ = 31 ¼ inches;

[X] 10-18 = 71 – 17 = 54 inches

[X] Yes – Pass

[ ] No – Fail

REMARKS:

Signature: Wayne Dahl Date: 4/12/13

I certify that I have read and performed each instruction.

DATA SHEET 9

FMVSS 208 SEAT BELT WARNING SYSTEM CHECK (S7.3)

Test Vehicle: 2013 Nissan Frontier Truck NHTSA No.: C20135202
Test Program: FMVSS 208 Compliance Test Date: 4/12/13
Test Technician: Wayne Dahlke

X 1. The occupant is in the driver's seat.
X 2. The seat belt is in the stowed position.
X 3. The key is in the "on" or "start" position.
X 4. The time duration of the audible signal beginning with key "on" or "start" is
X 5 seconds.
X 5. The occupant is in the driver's seat.
X 6. The seat belt is in the stowed position.
X 7. The key is in the "on" or "start" position.
X 8. The time duration of the warning light beginning with key "on" or "start" is
X Stays on seconds.
X 9. The occupant is in the driver's seat.
X 10. The seat belt is in the latched position and with at least 4 inches of belt webbing extended.
X 11. The key is in the "on" or "start" position.
X 12. The time duration of the warning light beginning with key "on" or "start" is
X 0 seconds.
X 13. Complete the following table with the data from 4, 8, and 12 to determine which option is used.

		Warning light	Warning light specification	Audible signal	Audible signal specification*
S7.3 (a)(1)	Belt stowed & key on or start	Item 8: Stays On	60 seconds minimum	Item 4: 5	4 to 8 seconds
S7.3 (a)(2)	Belt latched & key on or start	Item 12: 0	4 to 8 seconds		
	Belt stowed & key on or start	Item 8: Stays On	4 to 8 seconds	Item 4: 5	4 to 8 seconds

* 49 USCS @ 30124 does NOT allow an audible signal to operate for more than 8 seconds.
A voluntary audible signal after the 4 to 8 second required signal may be provided. It must be differentiated from the required signal (5/25/2001 legal interpretation to Longacre and Associates).

X 14. The seat belt warning system meets the requirements of (manufacturers may comply with either section).
- X S7.3 (a)(1)
- S7.3 (a)(2)
- FAIL – Does NOT meet the requirements of either option.

X 15. Note wording of visual warning: (S7.3(a)(1) and S7.3(a)(2))
- Fasten Seat Belts
- Fasten Belts
- X Symbol 101 -
- FAIL – Does not use any of the above wording or symbol.

REMARKS:

I certify that I have read and performed each instruction.

Signature: Wayne Dahlke Date: 4/12/13

DATA SHEET 10

BELT CONTACT FORCE (S7.4.3)

Test Vehicle:	2013 Nissan Frontier Truck	NHTSA No.:	C20135202
Test Program:	FMVSS 208 Compliance	Test Date:	4/12/13
Test Technician:	Wayne Dahlke		

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

DESIGNATED SEATING POSITION:	Left Front Driver

X	1.	Does the vehicle incorporate a webbing tension-relieving device? [ ] Yes (this form is complete) [X] No (continue with this check sheet)
X	2.	Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3) [X] N/A – No lumbar adjustment
X	3.	Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2) [X] N/A – No additional support adjustment
X	4.	Is the fore-aft position of the seat adjustable? [ ] No – go to 5 [X] Yes – go to 4.1
X	4.1	Use all the seat controls that have any affect on the fore-aft movement of the seat to move the seat cushion to the rearmost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)
X	4.2	Use all the seat controls that have any affects on the fore-aft movement of the seat to move the seat cushion to the foremost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)
X	4.3	**Mark** each fore-aft position so that there is a visual indication when the seat is at a particular position. For manual seats, **mark** each detent. For power seats, mark only the rearmost, middle and foremost positions. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the closest adjustment position to the rear of the mid-point), and R for rearmost. Determine the mid fore-aft seat position based on the foremost and rearmost positions determined in items 4.1 and 4.2. (8/31/95 legal interpretation to Hogan and Hartson)
X	4.4	Move the seat to the mid position.
X	4.5	While maintaining the mid position, move the seat to its lowest position. For seats with adjustable seat cushions, use the manufacturer's recommended seat cushion angle for determining the lowest height position.
X	5.	Is the seat back angle adjustable? [ ] No- go to 6 [X] Yes- go to 5.1
X	5.1	Set and mark seat back angle, if adjustable, at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. [ ] N/A – No seat back angle adjustment [X] Manufacturer's design seat back angle: __14˚ on HRP__ [X] Tested seat back angle: __13.5˚ on HRP__

[X] 6. Is the seat a bucket seat?

[X] Yes, go to 6.1 and skip 6.2

[ ] No, go to 6.2 and skip 6.1

[X] 6.1 Bucket seats:

Locate and mark the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S10.4.1.2 and S16.3.1.10)

[ ] 6.2 Bench seats (complete ONLY the one that is applicable to the seat being tested):

[ ] 6.2.1 Driver Seat

Locate and **mark** the longitudinal line on the seat cushion that marks the intersection of the vertical longitudinal plane through the centerline of the steering wheel and the seat cushion upper surface. (S10.4.1.1)

[ ] 6.2.2 Front Outboard Passenger Seat

Locate and **mark** the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S10.4.1.1)

[ ] Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel. _____

[ ] Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion. _____

[ ] 6.2.3 Rear designated seating positions

Locate and **mark** the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline.

[X] 7. Position the test dummies according to dummy position placement instructions in Appendix F. **Complete the Appendix F check sheets, but include them in the test report ONLY if there is a test failure.**

[X] 8. Fasten the seat belt latch.

[X] 9. Pull either 12 inches of belt webbing or the maximum available amount of belt webbing, whichever is less, from the retractor and then release it, allowing the belt webbing to return to the dummy's chest.

[X] 10. Locate the point where the centerline of the upper torso belt webbing crosses the midsagittal line on the dummy's chest. At that point pull the belt webbing out 3 inches from the dummy's chest and release until it is within one inch from the dummy's chest. (S10.8) Using a force measuring gage with a full scale range of no more than 1.5 pounds, measure the contact force perpendicular to the dummy's chest exerted by the belt webbing.

[X] Contact Force (lb): **0.3**

[X] 0.0 to 0.7 pounds – Pass

[ ] **Greater than 0.7 pounds - FAIL**

REMARKS:

Signature: Wayne Fahl Date: 4/12/13

I certify that I have read and performed each instruction.

DATA SHEET 10

BELT CONTACT FORCE (S7.4.3)

Test Vehicle:	2013 Nissan Frontier Truck	NHTSA No.:	C20135202
Test Program:	FMVSS 208 Compliance	Test Date:	4/12/13
Test Technician:	Wayne Dahlke		

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

DESIGNATED SEATING POSITION:	Right Front Passenger

X	1.	Does the vehicle incorporate a webbing tension-relieving device? [ ] Yes (this form is complete) [X] No (continue with this check sheet)
X	2.	Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3) [X] N/A – No lumbar adjustment
X	3.	Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2) [X] N/A – No additional support adjustment
X	4.	Is the fore-aft position of the seat adjustable? [ ] No – go to 5 [X] Yes – go to 4.1
X	4.1	Use all the seat controls that have any effect on the fore-aft movement of the seat to move the seat cushion to the rearmost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)
X	4.2	Use all the seat controls that have any effects on the fore-aft movement of the seat to move the seat cushion to the foremost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)
X	4.3	**Mark** each fore-aft position so that there is a visual indication when the seat is at a particular position. For manual seats, **mark** each detent. For power seats, mark only the rearmost, middle and foremost positions. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the closest adjustment position to the rear of the mid-point), and R for rearmost. Determine the mid fore-aft seat position based on the foremost and rearmost positions determined in items 4.1 and 4.2. (8/31/95 legal interpretation to Hogan and Hartson)
X	4.4	Move the seat to the mid position.
X	4.5	While maintaining the mid position, move the seat to its lowest position. For seats with adjustable seat cushions, use the manufacturer's recommended seat cushion angle for determining the lowest height position.
X	5.	Is the seat back angle adjustable? [ ] No- go to 6 [X] Yes- go to 5.1
X	5.1	Set and mark seat back angle, if adjustable, at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer. [ ] N/A – No seat back angle adjustment [X] Manufacturer's design seat back angle: __14˚ on HRP __ [X] Tested seat back angle: __14.4˚ on HRP__

[X] 6. Is the seat a bucket seat?

[X] Yes, go to 6.1 and skip 6.2

[ ] No, go to 6.2 and skip 6.1

[X] 6.1 Bucket seats:

Locate and mark the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S10.4.1.2 and S16.3.1.10)

[ ] 6.2 Bench seats (complete ONLY the one that is applicable to the seat being tested):

[ ] 6.2.1 Driver Seat

Locate and **mark** the longitudinal line on the seat cushion that marks the intersection of the vertical longitudinal plane through the centerline of the steering wheel and the seat cushion upper surface. (S10.4.1.1)

[ ] 6.2.2 Front Outboard Passenger Seat

Locate and **mark** the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S10.4.1.1)

[ ] Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel. _____

[ ] Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion. _____

[ ] 6.2.3 Rear designated seating positions

Locate and **mark** the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline.

[X] 7. Position the test dummies according to dummy position placement instructions in Appendix F. **Complete the Appendix F check sheets, but include them in the test report ONLY if there is a test failure.**

[X] 8. Fasten the seat belt latch.

[X] 9. Pull either 12 inches of belt webbing or the maximum available amount of belt webbing, whichever is less, from the retractor and then release it, allowing the belt webbing to return to the dummy's chest.

[X] 10. Locate the point where the centerline of the upper torso belt webbing crosses the midsagittal line on the dummy's chest. At that point pull the belt webbing out 3 inches from the dummy's chest and release until it is within one inch from the dummy's chest. (S10.8) Using a force measuring gage with a full scale range of no more than 1.5 pounds, measure the contact force perpendicular to the dummy's chest exerted by the belt webbing.

[X] Contact Force (lb): **0.2**

[X] 0.0 to 0.7 pounds – Pass

[ ] **Greater than 0.7 pounds - FAIL**

REMARKS:

Signature: Wayne Fahl Date: 4/12/13

I certify that I have read and performed each instruction.

DATA SHEET 10

BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2013 Nissan Frontier Truck NHTSA No.: C20135202
Test Program: FMVSS 208 Compliance Test Date: 4/12/13
Test Technician: Wayne Dahlke

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

DESIGNATED SEATING POSITION:	Left Rear Passenger

X 1. Does the vehicle incorporate a webbing tension-relieving device?
- [ ] Yes (this form is complete)
- [X] No (continue with this check sheet)

X 2. Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)
- [X] N/A – No lumbar adjustment

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

X 4. Is the fore-aft position of the seat adjustable?
- [X] No – go to 5
- [ ] Yes – go to 4.1

[ ] 4.1 Use all the seat controls that have any effect on the fore-aft movement of the seat to move the seat cushion to the rearmost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)

[ ] 4.2 Use all the seat controls that have any effects on the fore-aft movement of the seat to move the seat cushion to the foremost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)

[ ] 4.3 **Mark** each fore-aft position so that there is a visual indication when the seat is at a particular position. For manual seats, **mark** each detent. For power seats, mark only the rearmost, middle and foremost positions. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the closest adjustment position to the rear of the mid-point), and R for rearmost. Determine the mid fore-aft seat position based on the foremost and rearmost positions determined in items 4.1 and 4.2. (8/31/95 legal interpretation to Hogan and Hartson)

[ ] 4.4 Move the seat to the mid position.

[ ] 4.5 While maintaining the mid position, move the seat to its lowest position. For seats with adjustable seat cushions, use the manufacturer's recommended seat cushion angle for determining the lowest height position.

X 5. Is the seat back angle adjustable?
- [X] No- go to 6
- [ ] Yes- go to 5.1

[ ] 5.1 Set and mark seat back angle, if adjustable, at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer.
- [ ] N/A – No seat back angle adjustment
- [ ] Manufacturer's design seat back angle: _____
- [ ] Tested seat back angle: _____

X 6. Is the seat a bucket seat?

- [ ] Yes, go to 6.1 and skip 6.2
- [X] No, go to 6.2 and skip 6.1

6.1 Bucket seats:

Locate and mark the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S10.4.1.2 and S16.3.1.10)

X 6.2 Bench seats (complete ONLY the one that is applicable to the seat being tested):

6.2.1 Driver Seat

Locate and **mark** the longitudinal line on the seat cushion that marks the intersection of the vertical longitudinal plane through the centerline of the steering wheel and the seat cushion upper surface. (S10.4.1.1)

6.2.2 Front Outboard Passenger Seat

Locate and **mark** the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S10.4.1.1)

- [ ] Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel. _____
- [ ] Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion. _____

X 6.2.3 Rear designated seating positions

Locate and **mark** the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline.

X 7. Position the test dummies according to dummy position placement instructions in Appendix F. **Complete the Appendix F check sheets, but include them in the test report ONLY if there is a test failure.**

X 8. Fasten the seat belt latch.

X 9. Pull either 12 inches of belt webbing or the maximum available amount of belt webbing, whichever is less, from the retractor and then release it, allowing the belt webbing to return to the dummy's chest.

X 10. Locate the point where the centerline of the upper torso belt webbing crosses the midsagittal line on the dummy's chest. At that point pull the belt webbing out 3 inches from the dummy's chest and release until it is within one inch from the dummy's chest. (S10.8) Using a force measuring gage with a full scale range of no more than 1.5 pounds, measure the contact force perpendicular to the dummy's chest exerted by the belt webbing.

X Contact Force (lb): **0.3**

- [X] 0.0 to 0.7 pounds – Pass
- [ ] **Greater than 0.7 pounds - FAIL**

REMARKS:

Signature: Wayne Dahl Date: 4/12/13

I certify that I have read and performed each instruction.

DATA SHEET 10

BELT CONTACT FORCE (S7.4.3)

Test Vehicle:	2013 Nissan Frontier Truck	NHTSA No.:	C20135202
Test Program:	FMVSS 208 Compliance	Test Date:	4/12/13
Test Technician:	Wayne Dahlke		

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

DESIGNATED SEATING POSITION:	Center Rear Passenger

X 1. Does the vehicle incorporate a webbing tension-relieving device?
- [ ] Yes (this form is complete)
- [X] No (continue with this check sheet)

X 2. Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)
- [X] N/A – No lumbar adjustment

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

X 4. Is the fore-aft position of the seat adjustable?
- [X] No – go to 5
- [ ] Yes – go to 4.1

[ ] 4.1 Use all the seat controls that have any affect on the fore-aft movement of the seat to move the seat cushion to the rearmost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)

[ ] 4.2 Use all the seat controls that have any affects on the fore-aft movement of the seat to move the seat cushion to the foremost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)

[ ] 4.3 **Mark** each fore-aft position so that there is a visual indication when the seat is at a particular position. For manual seats, **mark** each detent. For power seats, mark only the rearmost, middle and foremost positions. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the closest adjustment position to the rear of the mid-point), and R for rearmost. Determine the mid fore-aft seat position based on the foremost and rearmost positions determined in items 4.1 and 4.2. (8/31/95 legal interpretation to Hogan and Hartson)

[ ] 4.4 Move the seat to the mid position.

[ ] 4.5 While maintaining the mid position, move the seat to its lowest position. For seats with adjustable seat cushions, use the manufacturer's recommended seat cushion angle for determining the lowest height position.

X 5. Is the seat back angle adjustable?
- [X] No- go to 6
- [ ] Yes- go to 5.1

[ ] 5.1 Set and mark seat back angle, if adjustable, at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer.
- [ ] N/A – No seat back angle adjustment
- [ ] Manufacturer's design seat back angle: _____
- [ ] Tested seat back angle: _____

X 6. Is the seat a bucket seat?

- [ ] Yes, go to 6.1 and skip 6.2
- [X] No, go to 6.2 and skip 6.1

6.1 Bucket seats:

Locate and mark the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S10.4.1.2 and S16.3.1.10)

X 6.2 Bench seats (complete ONLY the one that is applicable to the seat being tested):

6.2.1 Driver Seat

Locate and **mark** the longitudinal line on the seat cushion that marks the intersection of the vertical longitudinal plane through the centerline of the steering wheel and the seat cushion upper surface. (S10.4.1.1)

6.2.2 Front Outboard Passenger Seat

Locate and **mark** the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S10.4.1.1)

- [ ] Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel. _____
- [ ] Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion. _____

X 6.2.3 Rear designated seating positions

Locate and **mark** the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline.

X 7. Position the test dummies according to dummy position placement instructions in Appendix F. **Complete the Appendix F check sheets, but include them in the test report ONLY if there is a test failure.**

X 8. Fasten the seat belt latch.

X 9. Pull either 12 inches of belt webbing or the maximum available amount of belt webbing, whichever is less, from the retractor and then release it, allowing the belt webbing to return to the dummy's chest.

X 10. Locate the point where the centerline of the upper torso belt webbing crosses the midsagittal line on the dummy's chest. At that point pull the belt webbing out 3 inches from the dummy's chest and release until it is within one inch from the dummy's chest. (S10.8) Using a force measuring gage with a full scale range of no more than 1.5 pounds, measure the contact force perpendicular to the dummy's chest exerted by the belt webbing.

X Contact Force (lb): **0.3**

- [X] 0.0 to 0.7 pounds – Pass
- [ ] **Greater than 0.7 pounds - FAIL**

REMARKS:

Signature: Wayne Dahl Date: 4/12/13

I certify that I have read and performed each instruction.

DATA SHEET 10

BELT CONTACT FORCE (S7.4.3)

Test Vehicle: 2013 Nissan Frontier Truck NHTSA No.: C20135202
Test Program: FMVSS 208 Compliance Test Date: 4/12/13
Test Technician: Wayne Dahlke

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

DESIGNATED SEATING POSITION:	Right Rear Passenger

X 1. Does the vehicle incorporate a webbing tension-relieving device?
- [ ] Yes (this form is complete)
- [X] No (continue with this check sheet)

X 2. Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)
- [X] N/A – No lumbar adjustment

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

X 4. Is the fore-aft position of the seat adjustable?
- [X] No – go to 5
- [ ] Yes – go to 4.1

[ ] 4.1 Use all the seat controls that have any effect on the fore-aft movement of the seat to move the seat cushion to the rearmost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)

[ ] 4.2 Use all the seat controls that have any effects on the fore-aft movement of the seat to move the seat cushion to the foremost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)

[ ] 4.3 **Mark** each fore-aft position so that there is a visual indication when the seat is at a particular position. For manual seats, **mark** each detent. For power seats, mark only the rearmost, middle and foremost positions. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the closest adjustment position to the rear of the mid-point), and R for rearmost. Determine the mid fore-aft seat position based on the foremost and rearmost positions determined in items 4.1 and 4.2. (8/31/95 legal interpretation to Hogan and Hartson)

[ ] 4.4 Move the seat to the mid position.

[ ] 4.5 While maintaining the mid position, move the seat to its lowest position. For seats with adjustable seat cushions, use the manufacturer's recommended seat cushion angle for determining the lowest height position.

X 5. Is the seat back angle adjustable?
- [X] No- go to 6
- [ ] Yes- go to 5.1

[ ] 5.1 Set and mark seat back angle, if adjustable, at the manufacturer's nominal design riding position for a 50th percentile adult male in the manner specified by the manufacturer.
- [ ] N/A – No seat back angle adjustment
- [ ] Manufacturer's design seat back angle: _____
- [ ] Tested seat back angle: _____

X 6. Is the seat a bucket seat?

- [ ] Yes, go to 6.1 and skip 6.2
- [X] No, go to 6.2 and skip 6.1

6.1 Bucket seats:

Locate and mark the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S10.4.1.2 and S16.3.1.10)

X 6.2 Bench seats (complete ONLY the one that is applicable to the seat being tested):

6.2.1 Driver Seat

Locate and **mark** the longitudinal line on the seat cushion that marks the intersection of the vertical longitudinal plane through the centerline of the steering wheel and the seat cushion upper surface. (S10.4.1.1)

6.2.2 Front Outboard Passenger Seat

Locate and **mark** the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S10.4.1.1)

- [ ] Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel. _____
- [ ] Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion. _____

X 6.2.3 Rear designated seating positions

Locate and **mark** the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline.

X 7. Position the test dummies according to dummy position placement instructions in Appendix F. **Complete the Appendix F check sheets, but include them in the test report ONLY if there is a test failure.**

X 8. Fasten the seat belt latch.

X 9. Pull either 12 inches of belt webbing or the maximum available amount of belt webbing, whichever is less, from the retractor and then release it, allowing the belt webbing to return to the dummy's chest.

X 10. Locate the point where the centerline of the upper torso belt webbing crosses the midsagittal line on the dummy's chest. At that point pull the belt webbing out 3 inches from the dummy's chest and release until it is within one inch from the dummy's chest. (S10.8) Using a force measuring gage with a full scale range of no more than 1.5 pounds, measure the contact force perpendicular to the dummy's chest exerted by the belt webbing.

X Contact Force (lb): **0.4**

- [X] 0.0 to 0.7 pounds – Pass
- [ ] **Greater than 0.7 pounds - FAIL**

REMARKS:

Signature: Wayne Fahl Date: 4/12/13

I certify that I have read and performed each instruction.

DATA SHEET 11

LATCH PLATE ACCESS (S7.4.4)

Test Vehicle:	2013 Nissan Frontier Truck	NHTSA No.:	C20135202
Test Program:	FMVSS 208 Compliance	Test Date:	4/12/13
Test Technician:	Wayne Dahlke		

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

DESIGNATED SEATING POSITION:	Left Front Driver

X 1. Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)
- X N/A – No lumbar adjustment

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

X 3. Is the fore-aft position of the seat adjustable?
- ☐ No – go to 4
- X Yes – go to 3.1

X 3.1 Use all the seat controls that have any affect on the fore-aft movement of the seat to move the seat cushion to the rearmost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)

X 3.2 While maintaining the forward most position, move the seat to its lowest position. For seats with adjustable seat cushions, use the manufacturer's recommended seat cushion angle for determining the lowest height position.

X 4. Is the seat back angle adjustable?
- ☐ No- go to 5
- X Yes- go to 4.1

X 4.1 Set and mark seat back angle, if adjustable, at the manufacturer's nominal design riding position for a **50th percentile adult male** in the manner specified by the manufacturer.
- ☐ N/A – No seat back angle adjustment
- X Manufacturer's design seat back angle: 14˚ on HRP
- X Tested seat back angle: 13.5˚ on HRP

X 5. Is the seat a bucket seat?
- X Yes, go to 5.1 and skip 5.2
- ☐ No, go to 5.2 and skip 5.1

X 5.1 Bucket seats:

Locate and **mark** the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S10.4.1.2 and S16.3.1.10)

☐ 5.2 Bench seats (complete ONLY the one that is applicable to the seat being tested):

☐ 5.2.1 Driver Seat

Locate and **mark** the longitudinal line on the seat cushion that marks the intersection of the vertical longitudinal plane through the centerline of the steering wheel and the seat cushion upper surface. (S10.4.1.1)

☐ 5.2.2 Front Outboard Passenger Seat

Locate and **mark** the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S10.4.1.1)

☐ Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel. _____

☐ Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion. _____

X 6. Position the test dummy using the procedures in Appendix F. (Some modifications to the positioning procedure may need to be made because the seat is in the forward most position. Note on the Appendix F positioning check sheet any deviations necessary to position the Part 572, Subpart E dummy). **Complete the Appendix F check sheets, but include them in the test report ONLY if there is a test failure.**

X 7. Position the adjustable seat belt anchorage in the manufacturer's nominal design position for a 50th percentile adult male occupant.

X 8. Attach the inboard reach string to the base of the head following the instructions on Figure 3.

X 9. Attach the outboard reach string to the torso sheath following the instructions on Figure 3.

X 10. Place the latch plate in the stowed position.

X 11. Extend the inboard reach string in front of the dummy and then backward and outboard to the latch plate to generate arcs of the reach envelope of the test dummy's arms. Is the latch plate within the reach envelope?

X Yes – Pass

☐ No

X 12. Extend the outboard reach string in front of the dummy and then backward and outboard to the latch plate to generate arcs of the reach envelope of the test dummy's arms. Is the latch plate within the reach envelope?

X Yes – Pass

☐ No

X 13. Is the latch plate within the inboard (item 11) or outboard (item 12) reach envelope?

X Yes – Pass

☐ No – Fail

X 14. Using the clearance test block, specified in Figure 4, is there sufficient clearance between the vehicle seat and the side of vehicle interior to allow the test block to move unhindered to the latch plate or buckle?

X Yes – Pass

☐ No – Fail

REMARKS:

Signature: Wayne Fahle Date: 4/12/13

I certify that I have read and performed each instruction.

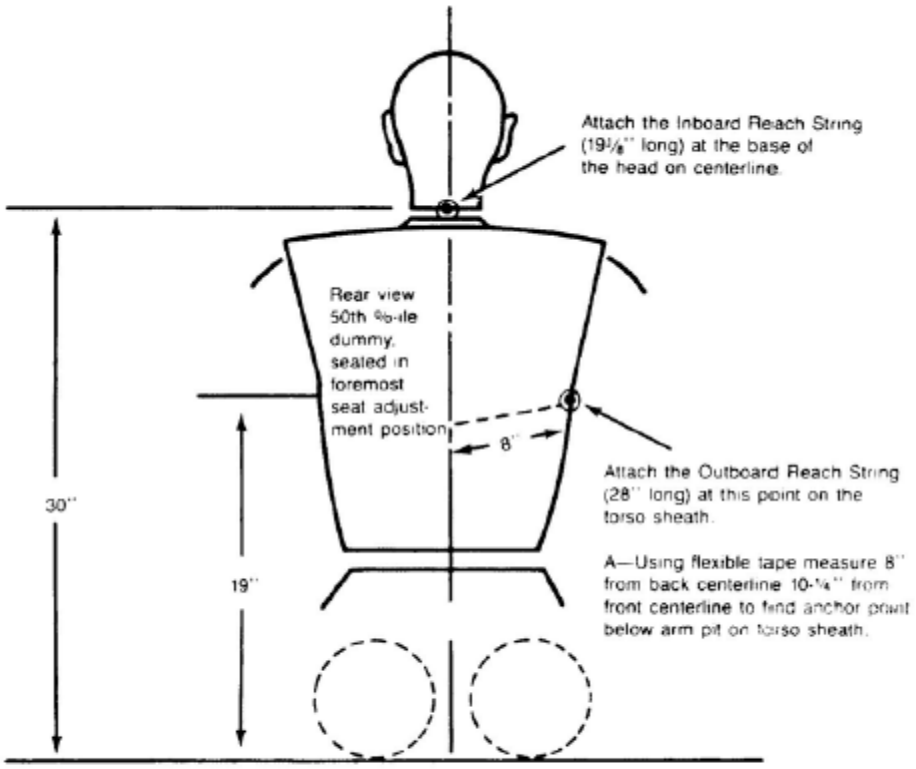


Figure 3. Location of Anchoring Points for Latchplate Reach Limiting Chains or Strings to Test for Latchplate Accessibility Using Subpart E Test Device

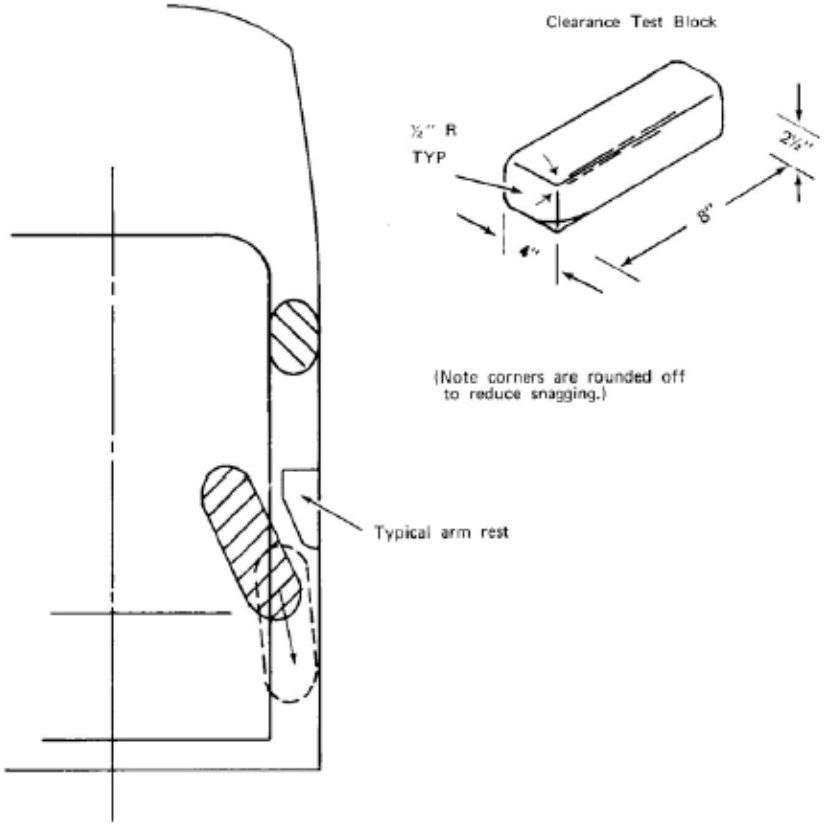


Figure 4—USE OF CLEARANCE TEST BLOCK TO DETERMINE HAND/ARM ACCESS

DATA SHEET 11

LATCH PLATE ACCESS (S7.4.4)

Test Vehicle:	2013 Nissan Frontier Truck	NHTSA No.:	C20135202
Test Program:	FMVSS 208 Compliance	Test Date:	4/12/13
Test Technician:	Wayne Dahlke		

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

DESIGNATED SEATING POSITION:	Right Front Passenger

X 1. Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)
- X N/A – No lumbar adjustment

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

X 3. Is the fore-aft position of the seat adjustable?
- ☐ No – go to 4
- X Yes – go to 3.1

X 3.1 Use all the seat controls that have any effect on the fore-aft movement of the seat to move the seat cushion to the rearmost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)

X 3.2 While maintaining the forward most position, move the seat to its lowest position. For seats with adjustable seat cushions, use the manufacturer's recommended seat cushion angle for determining the lowest height position.

X 4. Is the seat back angle adjustable?
- ☐ No- go to 5
- X Yes- go to 4.1

X 4.1 Set and mark seat back angle, if adjustable, at the manufacturer's nominal design riding position for a **50th percentile adult male** in the manner specified by the manufacturer.
- ☐ N/A – No seat back angle adjustment
- X Manufacturer's design seat back angle: 14˚ on HRP
- X Tested seat back angle: 14.4˚ on HRP

X 5. Is the seat a bucket seat?
- X Yes, go to 5.1 and skip 5.2
- ☐ No, go to 5.2 and skip 5.1

X 5.1 Bucket seats:

Locate and **mark** the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S10.4.1.2 and S16.3.1.10)

☐ 5.2 Bench seats (complete ONLY the one that is applicable to the seat being tested):

☐ 5.2.1 Driver Seat

Locate and **mark** the longitudinal line on the seat cushion that marks the intersection of the vertical longitudinal plane through the centerline of the steering wheel and the seat cushion upper surface. (S10.4.1.1)

☐ 5.2.2 Front Outboard Passenger Seat

Locate and **mark** the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S10.4.1.1)

☐ Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel. _____

☐ Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion. _____

X 6. Position the test dummy using the procedures in Appendix F. (Some modifications to the positioning procedure may need to be made because the seat is in the forward most position. Note on the Appendix F positioning check sheet any deviations necessary to position the Part 572, Subpart E dummy). **Complete the Appendix F check sheets, but include them in the test report ONLY if there is a test failure.**

X 7. Position the adjustable seat belt anchorage in the manufacturer's nominal design position for a 50th percentile adult male occupant.

X 8. Attach the inboard reach string to the base of the head following the instructions on Figure 3.

X 9. Attach the outboard reach string to the torso sheath following the instructions on Figure 3.

X 10. Place the latch plate in the stowed position.

X 11. Extend the inboard reach string in front of the dummy and then backward and outboard to the latch plate to generate arcs of the reach envelope of the test dummy's arms. Is the latch plate within the reach envelope?

X Yes – Pass

☐ No

X 12. Extend the outboard reach string in front of the dummy and then backward and outboard to the latch plate to generate arcs of the reach envelope of the test dummy's arms. Is the latch plate within the reach envelope?

X Yes – Pass

☐ No

X 13. Is the latch plate within the inboard (item 11) or outboard (item 12) reach envelope?

X Yes – Pass

☐ No – Fail

X 14. Using the clearance test block, specified in Figure 4, is there sufficient clearance between the vehicle seat and the side of vehicle interior to allow the test block to move unhindered to the latch plate or buckle?

X Yes – Pass

☐ No – Fail

REMARKS:

Signature: Wayne Gable Date: 4/12/13

I certify that I have read and performed each instruction.

DATA SHEET 12

SEAT BELT RETRACTION (S7.4.5)

Test Vehicle: 2013 Nissan Frontier Truck
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

NHTSA No.: C20135202
Test Date: 4/12/13

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

DESIGNATED SEATING POSITION:	Left Front Driver

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

[X] 2. Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)
- [X] N/A – No lumbar adjustment

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

[X] 4. Is the fore-aft position of the seat adjustable?
- [ ] No – go to 5
- [X] Yes – go to 4.1

[X] 4.1 Use all the seat controls that have any affect on the fore-aft movement of the seat to move the seat cushion to the rearmost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)

[X] 4.2 Use all the seat controls that have any affects on the fore-aft movement of the seat to move the seat cushion to the foremost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)

[X] 4.3 **Mark** each fore-aft position so that there is a visual indication when the seat is at a particular position. For manual seats, **mark** each detent. For power seats, mark only the rearmost, middle and foremost positions. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the closest adjustment position to the rear of the mid-point), and R for rearmost. Determine the mid fore-aft seat position based on the foremost and rearmost positions determined in items 4.1 and 4.2. (8/31/95 legal interpretation to Hogan and Hartson)

[X] 4.4 Move the seat to the mid position.

[X] 4.5 While maintaining the mid position, move the seat to its lowest position. For seats with adjustable seat cushions, use the manufacturer's recommended seat cushion angle for determining the lowest height position.

[X] 5. Is the seat back angle adjustable?
- [ ] No- go to 6
- [X] Yes- go to 5.1

[X] 5.1 Set and mark seat back angle, if adjustable, at the manufacturer's nominal design riding position for a **50th percentile adult male** in the manner specified by the manufacturer.
- [ ] N/A – No seat back angle adjustment
- [X] Manufacturer's design seat back angle: 14˚ on HRP
- [X] Tested seat back angle: 13.5˚ on HRP

[X] 6. Is the seat a bucket seat?
- [X] Yes, go to 6.1 and skip 6.2
- [ ] No, go to 6.2 and skip 6.1

[X] 6.1 Bucket Seats:
Locate and **mark** the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S10.4.1.2 and S16.3.1.10)

[ ] 6.2 Bench seats (complete ONLY the one that is applicable to the seat being tested):

[ ] 6.2.1 Driver Seat
Locate and **mark** the longitudinal line on the seat cushion that marks the intersection of the vertical longitudinal plane through the centerline of the steering wheel and the seat cushion upper surface. (S10.4.1.1)

[ ] 6.2.2 Front Outboard Passenger Seat
Locate and **mark** the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S10.4.1.1)

[ ] Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel. _____

[ ] Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion. _____

[X] 7. Position the Part 572 Subpart E test dummy according to dummy position placement instructions in Appendix F. **Complete the Appendix F check sheets, but include them in the test report ONLY if there is a test failure.**

[X] 8. Fasten the seat belt around the dummy.

[X] 9. Remove all slack from the lap belt portion. (S10.9)

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

[X] 10. Pull the upper torso webbing out of the retractor and allow it to retract; repeat this four times. (S10.9)

[X] 11. Apply a 2 to 4 pound tension load to the lap belt. (S10.9)
Pound load applied: 3

[X] 12. Is the belt system equipped with a tension relieving device?

[ ] Yes, continue

[X] No, go to 14

[ ] 13. Introduce the maximum amount of slack into the upper torso belt that is recommended by the vehicle manufacturer in the vehicle owner's manual. (S10.9).

[X] 14. Check the statement that applies to this test vehicle:

[ ] 14.1 The torso and lap belt webbing of the seat belt system automatically retracts to a stowed position when the adjacent vehicle door is in an open position and the seat belt latch plate is released.

[ ] Yes – Pass go to 16

[ ] No – go to 14.2

[X] 14.2 The torso and lap belt webbing of the seat belt system automatically retracts when the seat belt latch plate is released.

[X] Yes – Pass go to 15

[ ] No – go to 14.3

[ ] 14.3 [ ] Neither 14.1 nor 14.2 apply.

[ ] Fail

[X] 15. With the webbing and hardware in the stowed position are the webbing and hardware prevented from being pinched when the door is closed?

[X] Yes – Pass

[ ] No – Fail

[X] 16. If this test vehicle has an open body (without doors) and has a belt system with a tension relieving device, does the belt system fully retract when the tension-relieving device is deactivated?

- [X] N/A – Not an open body vehicle
- [ ] Yes – Pass
- [ ] No – Fail

REMARKS:

Signature: Wayne Dahl Date: 4/12/13

I certify that I have read and performed each instruction.

DATA SHEET 12

SEAT BELT RETRACTION (S7.4.5)

Test Vehicle: 2013 Nissan Frontier Truck
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

NHTSA No.: C20135202
Test Date: 4/12/13

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

DESIGNATED SEATING POSITION:	Right Front Passenger

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

X 2. Position the seat's adjustable lumbar supports so that the lumbar support is in its lowest, retracted or deflated adjustment position. (S8.1.3)
- [X] N/A – No lumbar adjustment

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

X 4. Is the fore-aft position of the seat adjustable?
- [ ] No – go to 5
- [X] Yes – go to 4.1

X 4.1 Use all the seat controls that have any effect on the fore-aft movement of the seat to move the seat cushion to the rearmost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)

X 4.2 Use all the seat controls that have any effects on the fore-aft movement of the seat to move the seat cushion to the foremost position. **Mark** this position. (8/31/95 legal interpretation to Hogan and Hartson)

X 4.3 **Mark** each fore-aft position so that there is a visual indication when the seat is at a particular position. For manual seats, **mark** each detent. For power seats, mark only the rearmost, middle and foremost positions. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the closest adjustment position to the rear of the mid-point), and R for rearmost. Determine the mid fore-aft seat position based on the foremost and rearmost positions determined in items 4.1 and 4.2. (8/31/95 legal interpretation to Hogan and Hartson)

X 4.4 Move the seat to the mid position.

X 4.5 While maintaining the mid position, move the seat to its lowest position. For seats with adjustable seat cushions, use the manufacturer's recommended seat cushion angle for determining the lowest height position.

X 5. Is the seat back angle adjustable?
- [ ] No- go to 6
- [X] Yes- go to 5.1

X 5.1 Set and mark seat back angle, if adjustable, at the manufacturer's nominal design riding position for a **50th percentile adult male** in the manner specified by the manufacturer.
- [ ] N/A – No seat back angle adjustment
- [X] Manufacturer's design seat back angle: 14˚ on HRP
- [X] Tested seat back angle: 14.4˚ on HRP

X 6. Is the seat a bucket seat?
- [X] Yes, go to 6.1 and skip 6.2
- [ ] No, go to 6.2 and skip 6.1

[X] 6.1 Bucket Seats:
Locate and **mark** the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S10.4.1.2 and S16.3.1.10)

[ ] 6.2 Bench seats (complete ONLY the one that is applicable to the seat being tested):

[ ] 6.2.1 Driver Seat
Locate and **mark** the longitudinal line on the seat cushion that marks the intersection of the vertical longitudinal plane through the centerline of the steering wheel and the seat cushion upper surface. (S10.4.1.1)

[ ] 6.2.2 Front Outboard Passenger Seat
Locate and **mark** the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S10.4.1.1)

[ ] Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel. _____

[ ] Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion. _____

[X] 7. Position the Part 572 Subpart E test dummy according to dummy position placement instructions in Appendix F. **Complete the Appendix F check sheets, but include them in the test report ONLY if there is a test failure.**

[X] 8. Fasten the seat belt around the dummy.

[X] 9. Remove all slack from the lap belt portion. (S10.9)

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

[X] 10. Pull the upper torso webbing out of the retractor and allow it to retract; repeat this four times. (S10.9)

[X] 11. Apply a 2 to 4 pound tension load to the lap belt. (S10.9)
Pound load applied: 3

[X] 12. Is the belt system equipped with a tension relieving device?

[ ] Yes, continue

[X] No, go to 14

[ ] 13. Introduce the maximum amount of slack into the upper torso belt that is recommended by the vehicle manufacturer in the vehicle owner's manual. (S10.9).

[X] 14. Check the statement that applies to this test vehicle:

[ ] 14.1 The torso and lap belt webbing of the seat belt system automatically retracts to a stowed position when the adjacent vehicle door is in an open position and the seat belt latch plate is released.

[ ] Yes – Pass go to 16

[ ] No – go to 14.2

[X] 14.2 The torso and lap belt webbing of the seat belt system automatically retracts when the seat belt latch plate is released.

[X] Yes – Pass go to 15

[ ] No – go to 14.3

[ ] 14.3 [ ] Neither 14.1 nor 14.2 apply.

[ ] Fail

[X] 15. With the webbing and hardware in the stowed position are the webbing and hardware prevented from being pinched when the door is closed?

[X] Yes – Pass

[ ] No – Fail

[X] 16. If this test vehicle has an open body (without doors) and has a belt system with a tension relieving device, does the belt system fully retract when the tension-relieving device is deactivated?

- [X] N/A – Not an open body vehicle
- [ ] Yes – Pass
- [ ] No – Fail

REMARKS:

Signature: Wayne Dahl Date: 4/12/13

I certify that I have read and performed each instruction.

DATA SHEET 13

SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2013 Nissan Frontier Truck NHTSA No.: C20135202
Test Program: FMVSS 208 Compliance Test Date: 4/12/13
Test Technician: Wayne Dahlke

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

DESIGNATED SEATING POSITION:	Left Front Driver

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

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

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

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

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

[ ] 6. Are the remaining two seat belt parts accessible under normal conditions?
[ ] Yes – Pass [ ] No – Fail

[ ] 7. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the belt is completely retracted or, if the belt is nonretractable, the belt is unlatched. (S7.4.6.2)
[ ] Yes – Pass [ ] No – Fail

[ ] 8. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat is moved to any position to which it is designed to be adjusted. (S7.4.6.2)
[ ] Yes – Pass [ ] No – Fail

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

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

REMARKS:

Signature: Wayne Dahlke Date: 4/12/13

I certify that I have read and performed each instruction.

DATA SHEET 13

SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2013 Nissan Frontier Truck NHTSA No.: C20135202
Test Program: FMVSS 208 Compliance Test Date: 4/12/13
Test Technician: Wayne Dahlke

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

DESIGNATED SEATING POSITION:	Right Front Passenger

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

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

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

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

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

[ ] 6. Are the remaining two seat belt parts accessible under normal conditions?
[ ] Yes – Pass [ ] No – Fail

[ ] 7. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the belt is completely retracted or, if the belt is nonretractable, the belt is unlatched. (S7.4.6.2)
[ ] Yes – Pass [ ] No – Fail

[ ] 8. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat is moved to any position to which it is designed to be adjusted. (S7.4.6.2)
[ ] Yes – Pass [ ] No – Fail

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

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

REMARKS:

Signature: Wayne Dahlke Date: 4/12/13

I certify that I have read and performed each instruction.

DATA SHEET 13

SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2013 Nissan Frontier Truck
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

NHTSA No.: C20135202
Test Date: 4/12/13

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

DESIGNATED SEATING POSITION:	Left Rear Passenger

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

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

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

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

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

[ ] 6. Are the remaining two seat belt parts accessible under normal conditions?
[ ] Yes – Pass [ ] No – Fail

[ ] 7. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the belt is completely retracted or, if the belt is nonretractable, the belt is unlatched. (S7.4.6.2)
[ ] Yes – Pass [ ] No – Fail

[ ] 8. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat is moved to any position to which it is designed to be adjusted. (S7.4.6.2)
[ ] Yes – Pass [ ] No – Fail

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

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

REMARKS:

Signature: Wayne Dahlke Date: 4/12/13

I certify that I have read and performed each instruction.

DATA SHEET 13

SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2013 Nissan Frontier Truck
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

NHTSA No.: C20135202
Test Date: 4/12/13

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

DESIGNATED SEATING POSITION:	Center Rear Passenger

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

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

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

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

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

[ ] 6. Are the remaining two seat belt parts accessible under normal conditions?
[ ] Yes – Pass [ ] No – Fail

[ ] 7. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the belt is completely retracted or, if the belt is nonretractable, the belt is unlatched. (S7.4.6.2)
[ ] Yes – Pass [ ] No – Fail

[ ] 8. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat is moved to any position to which it is designed to be adjusted. (S7.4.6.2)
[ ] Yes – Pass [ ] No – Fail

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

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

REMARKS:

Signature: Wayne Dahlke Date: 4/12/13

I certify that I have read and performed each instruction.

DATA SHEET 13

SEAT BELT GUIDES AND HARDWARE (S7.4.6)

Test Vehicle: 2013 Nissan Frontier Truck
Test Program: FMVSS 208 Compliance
Test Technician: Wayne Dahlke

NHTSA No.: C20135202
Test Date: 4/12/13

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

DESIGNATED SEATING POSITION:	Right Rear Passenger

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

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

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

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

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

[ ] 6. Are the remaining two seat belt parts accessible under normal conditions?
[ ] Yes – Pass [ ] No – Fail

[ ] 7. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the belt is completely retracted or, if the belt is nonretractable, the belt is unlatched. (S7.4.6.2)
[ ] Yes – Pass [ ] No – Fail

[ ] 8. The buckle and latch plate do not pass through the guides or conduits provided and fall behind the seat when the seat is moved to any position to which it is designed to be adjusted. (S7.4.6.2)
[ ] Yes – Pass [ ] No – Fail

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

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

REMARKS:

Signature: Wayne Dahlke Date: 4/12/13

I certify that I have read and performed each instruction.

DATA SHEET 16

AIR BAG SUPPRESSION TELLTALE (S19.2.2)

Test Vehicle: 2013 Nissan Frontier Truck NHTSA No.: C20135202
Test Program: FMVSS 208 Compliance Test Date: 4/16/13
Test Technician: Wayne Dahlke

X 1. Is the vehicle certified to any suppression performance standards of FMVSS 208?
X Yes - go to 2
__No - this form is complete

X 2. Does telltale emit yellow light when the air bag is suppressed? (S19.2.2 (a))
X Yes - Pass ___**NO - FAIL**

X 3. Are the words "PASSENGER AIR BAG OFF" or "PASS AIR BAG OFF" (S19.2.2 (b))

X 3.1 on the telltale? (S19.2.2 (b))
__ Yes - Pass, go to 4
X No - go to 3.2

X 3.2 Within 25 mm of the telltale? (S19.2.2 (b)) 2 mm from the edge of the telltale light.
X Yes - Pass ___**NO - FAIL**

X 4. Is the telltale separate from the air bag readiness indicator? (S19.2.2(c))
X Yes - Pass ___**NO - FAIL**

X 5. Is the telltale within the interior of the vehicle? (S19.2.2 (d))
X Yes - Pass ___**NO - FAIL**

X 6 Is the telltale forward of and above the design H-point of both the driver's and the front outboard passenger's seat when the seats are in their forwardmost seating positions? (S19.2.2 (d))
X Yes - Pass ___**NO - FAIL**

X 7. Is the telltale away from surfaces that can be used for temporary or permanent storage of objects that could obscure the telltale from either the driver's or front outboard passenger's view? (S19.2.2 (d))
X Yes - Pass ___**NO - FAIL**

X 8. Is the telltale located so that it is not obscured from the driver or front outboard passenger by a rear-facing child restraint in Appendix A installed in the front outboard passenger seat? (S19.2.2 (d))
X Yes - Pass ___**NO - FAIL**

X 9. Is the telltale visible or recognizable during the night? (S19.2.2 (e))
X Yes - Pass ___**NO - FAIL**

X 10. Is the telltale visible or recognizable during the day? (S19.2.2 (e))
X Yes - Pass ___**NO - FAIL**

X 11. If there is a visibility adjustment, do all the adjustment levels make the telltale visible and recognizable? (S19.2.2 (g))
X N/A-No visibility adjustment
___Yes - Pass ___**NO - FAIL**

X 12. Does the telltale remain illuminated while the air bag is suppressed? (S19.2.2 (h)) (Leave the air bag suppressed for 5 minutes.)
X Yes - Pass ___**NO - FAIL**

X 13. Is the telltale off while the air bag is activated? (S19.2.2 (h)) (Leave the air bag activated for 5 minutes.)
X Yes - Pass ___**NO - FAIL**

Signature: Wayne Dahlke Date: 4/16/13

I certify that I have read and performed each instruction.

DATA SHEET 17 SUMMARY

Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R)
Section B Rear Facing CRS

NHTSA NO.:	C20135202	TEST DATE:	4/16/13
LABORATORY:	MGA	TECHNICIAN(S):	WD
DUMMY TYPE:	12 Month Old	DUMMY SERIAL NO.:	062

CHILD RESTRAINT NAME:	Cosco
CHILD RESTRAINT MODEL:	Arriva 22-049 (same as model 22-013)
DATE OF MANUFACTURE:	8-20-2008

Base: _X_On __Off __N/A-Restraint does not have a removable base

Manufacturer's design seat back angle: 14.0˚ on Headrest Post
Tested seat back angle: 14.4˚ on Headrest Post
Manufacturer's specified anchorage position: Upper-most
Tested anchorage position: Upper-most

A blanket and visor were not used in the suppression testing because they did not affect the weight sensing system used on the vehicle.

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Rear Facing	Forward 9*	127	Suppressed
	Middle	130	Suppressed
	Rearward	128	Suppressed
Unbelted Rear Facing	Forward 9*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed
Unbelted Forward Facing	Forward 7*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 21 = Full Rearward; 21 total Seat Slide detents)

DATA SHEET 17 SUMMARY

Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R)
Section B Rear Facing CRS

NHTSA NO.:	C20135202	TEST DATE:	4/17/13
LABORATORY:	MGA	TECHNICIAN(S):	WD
DUMMY TYPE:	12 Month Old	DUMMY SERIAL NO.:	062

CHILD RESTRAINT NAME:	Cosco
CHILD RESTRAINT MODEL:	Arriva 22-049 (same as model 22-013)
DATE OF MANUFACTURE:	8-20-2008

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

Manufacturer's design seat back angle: 14.0˚ on Headrest Post
Tested seat back angle: 14.4˚ on Headrest Post
Manufacturer's specified anchorage position: Upper-most
Tested anchorage position: Upper-most

A blanket and visor were not used in the suppression testing because they did not affect the weight sensing system used on the vehicle.

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Rear Facing	Forward 8*	130	Suppressed
	Middle	131	Suppressed
	Rearward	131	Suppressed
Unbelted Rear Facing	Forward 10*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed
Unbelted Forward Facing	Forward 5*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 21 = Full Rearward; 21 total Seat Slide detents)

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN506)

DATA SHEET 17 SUMMARY

Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R)
Section B Rear Facing CRS

NHTSA NO.:	C20135202	TEST DATE:	4/17/13
LABORATORY:	MGA	TECHNICIAN(S):	WD
DUMMY TYPE:	12 Month Old	DUMMY SERIAL NO.:	062

CHILD RESTRAINT NAME:	Graco
CHILD RESTRAINT MODEL:	Snugride
DATE OF MANUFACTURE:	5-24-2007

Base: _X_On __Off ___N/A-Restraint does not have a removable base

Manufacturer's design seat back angle: 14.0˚ on Headrest Post
Tested seat back angle: 14.4˚ on Headrest Post
Manufacturer's specified anchorage position: Upper-most
Tested anchorage position: Upper-most

A blanket and visor were not used in the suppression testing because they did not affect the weight sensing system used on the vehicle.

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Rear Facing	Forward	132	Suppressed
	Middle	130	Suppressed
	Rearward	130	Suppressed
Unbelted Rear Facing	Forward 3*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed
Unbelted Forward Facing	Forward 7*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 21 = Full Rearward; 21 total Seat Slide detents)

DATA SHEET 17 SUMMARY

Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R)
Section B Rear Facing CRS

NHTSA NO.:	C20135202	TEST DATE:	4/17/13
LABORATORY:	MGA	TECHNICIAN(S):	WD
DUMMY TYPE:	12 Month Old	DUMMY SERIAL NO.:	062

CHILD RESTRAINT NAME:	Graco
CHILD RESTRAINT MODEL:	Snugride
DATE OF MANUFACTURE:	5-24-2007

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

Manufacturer's design seat back angle: 14.0˚ on Headrest Post
Tested seat back angle: 14.4˚ on Headrest Post
Manufacturer's specified anchorage position: Upper-most
Tested anchorage position: Upper-most

A blanket and visor were not used in the suppression testing because they did not affect the weight sensing system used on the vehicle.

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Rear Facing	Forward 7*	130	Suppressed
	Middle	132	Suppressed
	Rearward	131	Suppressed
Unbelted Rear Facing	Forward 9*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed
Unbelted Forward Facing	Forward 4*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 21 = Full Rearward; 21 total Seat Slide detents)

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN506)

DATA SHEET 17 SUMMARY

Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R)
Section B Rear Facing CRS

NHTSA NO.:	C20135202	TEST DATE:	4/17/13
LABORATORY:	MGA	TECHNICIAN(S):	WD
DUMMY TYPE:	12 Month Old	DUMMY SERIAL NO.:	062

CHILD RESTRAINT NAME:	Peg Perego
CHILD RESTRAINT MODEL:	Primo Viaggio
DATE OF MANUFACTURE:	8-27-2007

Base: _X_On __Off __N/A-Restraint does not have a removable base

Manufacturer's design seat back angle: 14.0˚ on Headrest Post
Tested seat back angle: 14.4˚ on Headrest Post
Manufacturer's specified anchorage position: Upper-most
Tested anchorage position: Upper-most

A blanket and visor were not used in the suppression testing because they did not affect the weight sensing system used on the vehicle.

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Rear Facing	Forward	129	Suppressed
	Middle	130	Suppressed
	Rearward	129	Suppressed
Unbelted Rear Facing	Forward 3*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed
Unbelted Forward Facing	Forward 4*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 21 = Full Rearward; 21 total Seat Slide detents)

DATA SHEET 17 SUMMARY

Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R)
Section B Rear Facing CRS

NHTSA NO.:	C20135202	TEST DATE:	4/17/13
LABORATORY:	MGA	TECHNICIAN(S):	WD
DUMMY TYPE:	12 Month Old	DUMMY SERIAL NO.:	062

CHILD RESTRAINT NAME:	Peg Perego
CHILD RESTRAINT MODEL:	Primo Viaggio
DATE OF MANUFACTURE:	8-27-2007

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

Manufacturer's design seat back angle: 14.0˚ on Headrest Post
Tested seat back angle: 14.4˚ on Headrest Post
Manufacturer's specified anchorage position: Upper-most
Tested anchorage position: Upper-most

A blanket and visor were not used in the suppression testing because they did not affect the weight sensing system used on the vehicle.

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Rear Facing	Forward 5*	128	Suppressed
	Middle	131	Suppressed
	Rearward	129	Suppressed
Unbelted Rear Facing	Forward 7*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed
Unbelted Forward Facing	Forward 2*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 21 = Full Rearward; 21 total Seat Slide detents)

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN506)

DATA SHEET 17 SUMMARY

Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R)
Section C Forward Facing Convertible CRS

NHTSA NO.:	C20135202	TEST DATE:	4/17/13
LABORATORY:	MGA	TECHNICIAN(S):	WD
DUMMY TYPE:	12 Month Old	DUMMY SERIAL NO.:	062

CHILD RESTRAINT NAME:	Britax
CHILD RESTRAINT MODEL:	Roundabout E9L02
DATE OF MANUFACTURE:	7-2-2008

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

Manufacturer's design seat back angle: 14.0˚ on Headrest Post
Tested seat back angle: 14.4˚ on Headrest Post
Manufacturer's specified anchorage position: Upper-most
Tested anchorage position: Upper-most

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

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Forward Facing	Forward	131	Suppressed
	Middle	131	Suppressed
	Rearward	129	Suppressed
Unbelted Forward Facing	Forward	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed
Belted Rear Facing	Forward	128	Suppressed
	Middle	132	Suppressed
	Rearward	130	Suppressed
Unbelted Rear Facing	Forward 4*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 21 = Full Rearward; 21 total Seat Slide detents)

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN506)

DATA SHEET 17 SUMMARY

Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R)
Section C Forward Facing Convertible CRS

NHTSA NO.:	C20135202	TEST DATE:	4/17/13
LABORATORY:	MGA	TECHNICIAN(S):	WD
DUMMY TYPE:	12 Month Old	DUMMY SERIAL NO.:	062

CHILD RESTRAINT NAME:	Cosco
CHILD RESTRAINT MODEL:	High Back Booster 22-209
DATE OF MANUFACTURE:	10-7-2008

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

Manufacturer's design seat back angle: 14.0˚ on Headrest Post
Tested seat back angle: 14.4˚ on Headrest Post
Manufacturer's specified anchorage position: Upper-most
Tested anchorage position: Upper-most

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

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Forward Facing	Forward	132	Suppressed
	Middle	132	Suppressed
	Rearward	129	Suppressed
Unbelted Forward Facing	Forward	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed
Unbelted Rear Facing	Forward	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed

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

The Cosco High Back Booster 22-209 does not have a rear facing belt path.

DATA SHEET 17 SUMMARY

Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R)
Section C Forward Facing Convertible CRS

NHTSA NO.:	C20135202	TEST DATE:	4/17/13
LABORATORY:	MGA	TECHNICIAN(S):	WD
DUMMY TYPE:	12 Month Old	DUMMY SERIAL NO.:	062

CHILD RESTRAINT NAME:	Evenflo
CHILD RESTRAINT MODEL:	Generations 352
DATE OF MANUFACTURE:	10-5-2006

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

Manufacturer's design seat back angle: 14.0˚ on Headrest Post
Tested seat back angle: 14.4˚ on Headrest Post
Manufacturer's specified anchorage position: Upper-most
Tested anchorage position: Upper-most

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

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Forward Facing	Forward	131	Suppressed
	Middle	132	Suppressed
	Rearward	129	Suppressed
Unbelted Forward Facing	Forward	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed
Unbelted Rear Facing	Forward	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed

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

The Evenflo Generations 352 does not have a rear facing belt path.

DATA SHEET 17 SUMMARY

Suppression Test Using 12-Month-Old CRABI Dummy (Part 572, Subpart R)
Section C Forward Facing Convertible CRS

NHTSA NO.:	C20135202	TEST DATE:	4/17/13
LABORATORY:	MGA	TECHNICIAN(S):	WD
DUMMY TYPE:	12 Month Old	DUMMY SERIAL NO.:	062

CHILD RESTRAINT NAME:	Graco
CHILD RESTRAINT MODEL:	ComfortSport
DATE OF MANUFACTURE:	6-15-2009

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

Manufacturer's design seat back angle: 14.0˚ on Headrest Post
Tested seat back angle: 14.4˚ on Headrest Post
Manufacturer's specified anchorage position: Upper-most
Tested anchorage position: Upper-most

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

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Forward Facing	Forward	131	Suppressed
	Middle	131	Suppressed
	Rearward	132	Suppressed
Unbelted Forward Facing	Forward	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed
Belted Rear Facing	Forward	129	Suppressed
	Middle	132	Suppressed
	Rearward	130	Suppressed
Unbelted Rear Facing	Forward 2*	N/A	Suppressed
	Middle	N/A	Suppressed
	Rearward	N/A	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 21 = Full Rearward; 21 total Seat Slide detents)

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

DATA SHEET 18 SUMMARY

Suppression Test Using Newborn Infant Dummy (Part 572, Subpart K)
Section A Car Bed

NHTSA NO.:	C20135202	TEST DATE:	4/17/13
LABORATORY:	MGA	TECHNICIAN(S):	WD
DUMMY TYPE:	Newborn Infant	DUMMY SERIAL NO.:	003

CAR BED NAME:	Angel Guard
CAR BED MODEL:	Angel Ride
DATE OF MANUFACTURE:	4-15-2008

Base: __On __Off _X_N/A-Restraint does not have a removable base
(A car bed with a removable base shall be treated as two separate models, i.e. this form and test procedure will be completed with the base on and then repeated on a new form with the base off.

Manufacturer's design seat back angle: 14.0˚ on Headrest Post
Tested seat back angle: 14.4˚ on Headrest Post
Manufacturer's specified anchorage position: Upper-most
Tested anchorage position: Upper-most

A blanket and visor were not used in the suppression testing because they did not affect the weight sensing system used on the vehicle.

Test Summary

Seat Belt	Seat Slide	Result
Belted	Forward	Suppressed
	Middle	Suppressed
	Rearward	Suppressed

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

DATA SHEET 19 SUMMARY

Suppression Test Using 3 Year Old Dummy And Booster Seats (Part 572, Subpart P)
Section D Forward Facing Belt Positioning Booster

NHTSA NO.:	C20135202	TEST DATE:	4/17/13
LABORATORY:	MGA	TECHNICIAN(S):	WD
DUMMY TYPE:	3 Year Old	DUMMY SERIAL NO.:	032

BOOSTER SEAT NAME:	Cosco
BOOSTER SEAT MODEL:	Summit Deluxe High Back Booster 22-262
DATE OF MANUFACTURE:	8-9-2007

Manufacturer's design seat back angle: 14.0˚ on Headrest Post
Tested seat back angle: 14.4˚ on Headrest Post
Manufacturer's specified anchorage position: Upper-most
Tested anchorage position: Upper-most

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Forward Facing Without Harness	Forward 7*	9	Suppressed
	Middle	18	Suppressed
	Rearward	15	Suppressed
Belted Forward Facing Cinched With Harness	Forward 5*	131	Suppressed
	Middle	129	Suppressed
	Rearward	127	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 21 = Full Rearward; 21 total Seat Slide detents)

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN506)

DATA SHEET 19 SUMMARY

Suppression Test Using 3 Year Old Dummy And Booster Seats (Part 572, Subpart P)
Section D Forward Facing Toddler Belt Positioning Booster Seat

NHTSA NO.:	C20135202	TEST DATE:	4/17/13
LABORATORY:	MGA	TECHNICIAN(S):	WD
DUMMY TYPE:	3 Year Old	DUMMY SERIAL NO.:	032

BOOSTER SEAT NAME:	Graco
BOOSTER SEAT MODEL:	Platinum Cargo
DATE OF MANUFACTURE:	6-24-2008

Manufacturer's design seat back angle: 14.0˚ on Headrest Post
Tested seat back angle: 14.4˚ on Headrest Post
Manufacturer's specified anchorage position: Upper-most
Tested anchorage position: Upper-most

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted Forward Facing Without Harness	Forward 6*	15	Suppressed
	Middle	16	Suppressed
	Rearward	12	Suppressed
Belted Forward Facing Cinched With Harness	Forward 6*	132	Suppressed
	Middle	132	Suppressed
	Rearward	129	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 21 = Full Rearward; 21 total Seat Slide detents)

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN506)

DATA SHEET 20 SUMMARY

Suppression Test Using 3 Year Old Dummy And Convertible Restraints (Part 572, Subpart P)
Section C Forward Facing Convertible CRS

NHTSA NO.:	C20135202	TEST DATE:	4/17/13
LABORATORY:	MGA	TECHNICIAN(S):	WD
DUMMY TYPE:	3 Year Old	DUMMY SERIAL NO.:	032

CHILD RESTRAINT NAME:	Britax
CHILD RESTRAINT MODEL:	Roundabout E9L02
DATE OF MANUFACTURE:	7-2-2008

Manufacturer's design seat back angle: 14.0˚ on Headrest Post
Tested seat back angle: 14.4˚ on Headrest Post
Manufacturer's specified anchorage position: Upper-most
Tested anchorage position: Upper-most

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted	Forward 9*	132	Suppressed
	Middle	130	Suppressed
	Rearward	130	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 21 = Full Rearward; 21 total Seat Slide detents)

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN506)

DATA SHEET 20 SUMMARY

Suppression Test Using 3 Year Old Dummy And Convertible Restraints (Part 572, Subpart P)
Section C Forward Facing Convertible CRS

NHTSA NO.:	C20135202	TEST DATE:	4/17/13
LABORATORY:	MGA	TECHNICIAN(S):	WD
DUMMY TYPE:	3 Year Old	DUMMY SERIAL NO.:	032

CHILD RESTRAINT NAME:	Cosco
CHILD RESTRAINT MODEL:	High Back Booster 22-209
DATE OF MANUFACTURE:	10-7-2008

Manufacturer's design seat back angle: 14.0˚ on Headrest Post
Tested seat back angle: 14.4˚ on Headrest Post
Manufacturer's specified anchorage position: Upper-most
Tested anchorage position: Upper-most

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted (Without Harness)	Forward 7*	17	Suppressed
	Middle	15	Suppressed
	Rearward	16	Suppressed
Belted (Cinched with Harness)	Forward 7*	129	Suppressed
	Middle	130	Suppressed
	Rearward	129	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 21 = Full Rearward; 21 total Seat Slide detents)

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN506)

DATA SHEET 20 SUMMARY

Suppression Test Using 3 Year Old Dummy And Convertible Restraints (Part 572, Subpart P)
Section C Forward Facing Convertible CRS

NHTSA NO.:	C20135202	TEST DATE:	4/17/13
LABORATORY:	MGA	TECHNICIAN(S):	WD
DUMMY TYPE:	3 Year Old	DUMMY SERIAL NO.:	032

CHILD RESTRAINT NAME:	Evenflo
CHILD RESTRAINT MODEL:	Generations 352
DATE OF MANUFACTURE:	10-5-2006

Manufacturer's design seat back angle: 14.0˚ on Headrest Post
Tested seat back angle: 14.4˚ on Headrest Post
Manufacturer's specified anchorage position: Upper-most
Tested anchorage position: Upper-most

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted (Without Harness)	Forward 5*	18	Suppressed
	Middle	9	Suppressed
	Rearward	12	Suppressed
Belted (Cinched with Harness)	Forward 5*	128	Suppressed
	Middle	132	Suppressed
	Rearward	129	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 21 = Full Rearward; 21 total Seat Slide detents)

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN506)

DATA SHEET 20 SUMMARY

Suppression Test Using 3 Year Old Dummy And Convertible Restraints (Part 572, Subpart P)
Section C Forward Facing Convertible CRS

NHTSA NO.:	C20135202	TEST DATE:	4/17/13
LABORATORY:	MGA	TECHNICIAN(S):	WD
DUMMY TYPE:	3 Year Old	DUMMY SERIAL NO.:	032

CHILD RESTRAINT NAME:	Graco
CHILD RESTRAINT MODEL:	Comfort Sport
DATE OF MANUFACTURE:	6-15-2009

Manufacturer's design seat back angle: 14.0˚ on Headrest Post
Tested seat back angle: 14.4˚ on Headrest Post
Manufacturer's specified anchorage position: Upper-most
Tested anchorage position: Upper-most

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted	Forward 5*	128	Suppressed
	Middle	130	Suppressed
	Rearward	127	Suppressed

* The CRS would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 21 = Full Rearward; 21 total Seat Slide detents)

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN506)

DATA SHEET 21 SUMMARY

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

NHTSA NO.:	C20135202	TEST DATE:	4/17/13
LABORATORY:	MGA	TECHNICIAN(S):	WD
DUMMY TYPE:	3 Year Old	DUMMY SERIAL NO.:	032

Test Summary

Position	Seat Slide	Seat Back Angle **	Result
Position 1 Sitting on seat with back against seat back	Forward	14.4° on HRP	Suppressed
	Middle	14.4° on HRP	Suppressed
	Rearward	14.4° on HRP	Suppressed
Position 2 Sitting on seat with back against reclined seat back	Forward	39.3° on HRP	Suppressed
	Middle	39.3° on HRP	Suppressed
	Rearward	39.3° on HRP	Suppressed
Position 3 Sitting on seat with back not against seat back	Forward 2*	14.4° on HRP	Suppressed
	Middle	14.4° on HRP	Suppressed
	Rearward	14.4° on HRP	Suppressed
Position 4 Sitting on seat edge, spine vertical, hands at dummy's sides	Forward	14.4° on HRP	Suppressed
	Middle	14.4° on HRP	Suppressed
	Rearward	14.4° on HRP	Suppressed
Position 5 Standing on seat, facing forward	Forward	14.4° on HRP	Suppressed
	Middle	14.4° on HRP	Suppressed
	Rearward	14.4° on HRP	Suppressed
Position 6 Kneeling on seat, facing forward	Forward	14.4° on HRP	Suppressed
	Middle	14.4° on HRP	Suppressed
	Rearward	14.4° on HRP	Suppressed
Position 7 Kneeling on seat, facing rearward	Forward	14.4° on HRP	Suppressed
	Middle	14.4° on HRP	Suppressed
	Rearward	14.4° on HRP	Suppressed
Position 8 Lying on seat. (Three designated seating positions only)	Forward	N/A	N/A
	Middle	N/A	N/A
	Rearward	N/A	N/A

* The ATD would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 21 = Full Rearward; 21 total Seat Slide detents)

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN506)

** The manufacturer's design seat back angle was 14.0˚ on Headrest Post; (HRP). When the vehicle passenger seat was reclined 25° the seat back angle on the Headrest Post was 39.3°.

DATA SHEET 22 SUMMARY

Suppression Test Using 6 Year Old Dummy And Booster Seats (Part 572, Subpart N)
Section D Forward Facing Toddler Belt Positioning Booster Seat

NHTSA NO.:	C20135202	TEST DATE:	4/17/13
LABORATORY:	MGA	TECHNICIAN(S):	WD
DUMMY TYPE:	6 Year Old	DUMMY SERIAL NO.:	153

CHILD RESTRAINT NAME:	Cosco
CHILD RESTRAINT MODEL:	Summit Deluxe High Back Booster 22-262
DATE OF MANUFACTURE:	8-9-2007

Manufacturer's design seat back angle: 14.0˚ on Headrest Post
Tested seat back angle: 14.4˚ on Headrest Post
Manufacturer's specified anchorage position: Upper-most
Tested anchorage position: Upper-most

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted	Forward	12	Suppressed
	Middle	15	Suppressed
	Rearward	14	Suppressed

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Forward position. (SN506)

DATA SHEET 22 SUMMARY

Suppression Test Using 6 Year Old Dummy And Booster Seats (Part 572, Subpart N)
Section D Forward Facing Toddler Belt Positioning Booster Seat

NHTSA NO.:	C20135202	TEST DATE:	4/17/13
LABORATORY:	MGA	TECHNICIAN(S):	WD
DUMMY TYPE:	6 Year Old	DUMMY SERIAL NO.:	153

CHILD RESTRAINT NAME:	Graco
CHILD RESTRAINT MODEL:	Platinum Cargo
DATE OF MANUFACTURE:	6-24-2008

Manufacturer's design seat back angle: 14.0˚ on Headrest Post
Tested seat back angle: 14.4˚ on Headrest Post
Manufacturer's specified anchorage position: Upper-most
Tested anchorage position: Upper-most

Test Summary

Seat Belt	Seat Slide	Cinch Load (N)	Result
Belted	Forward	12	Suppressed
	Middle	18	Suppressed
	Rearward	17	Suppressed

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Middle position. (SN506)

DATA SHEET 23 SUMMARY

Suppression Tests Using an Unbelted 6 Year Old Dummy (Part 572, Subpart N) (S24.2.1)
No CRS

NHTSA NO.:	C20135202	TEST DATE:	4/17/13
LABORATORY:	MGA	TECHNICIAN(S):	WD
DUMMY TYPE:	6 Year Old	DUMMY SERIAL NO.:	153

Test Summary

Position	Seat Slide	Seat Back Angle **	Result
Position 1 Sitting on seat with back against seat back	Forward 10*	14.4° on HRP	Suppressed
	Middle	14.4° on HRP	Suppressed
	Rearward	14.4° on HRP	Suppressed
Position 2 Sitting on seat with back against reclined seat back	Forward 9*	39.3° on HRP	Suppressed
	Middle	39.3° on HRP	Suppressed
	Rearward	39.3° on HRP	Suppressed
Position 3 Sitting on seat edge, spine vertical, hands at dummy's sides	Forward	14.4° on HRP	Suppressed
	Middle	14.4° on HRP	Suppressed
	Rearward	14.4° on HRP	Suppressed
Position 4 Sitting on seat with back against seat back then leaning on the door	Forward 4*	14.4° on HRP	Suppressed
	Middle	14.4° on HRP	Suppressed
	Rearward	14.4° on HRP	Suppressed

* The ATD would not fit in this Forward Seat Slide position. If there is a number in the Seat Slide column, it indicates the fore-aft detent position with respect to the foremost position. (1 = Full Forward; 21 = Full Rearward; 21 total Seat Slide detents)

Successful Unbelted 5th percentile Female Dummy Reactivation was performed with the seat in the Rearward position. (SN506)

** The manufacturer's design seat back angle was 14.0˚ on Headrest Post; (HRP). When the vehicle passenger seat was reclined 25° the seat back angle on the Headrest Post was 39.3°.

DATA SHEET 29 SUMMARY

Low Risk Deployment Tests Using an Unbelted 5th Percentile Female Dummy (Part 572, Subpart O) (S26) Position 1 - Chin On Module (S26.2)

NHTSA NO.:	C20135202	TEST DATE:	5/6/13
LABORATORY:	MGA	TECHNICIAN(S):	BR / WD
DUMMY TYPE:	5th Percentile Female	DUMMY SERIAL NO.:	510

Manufacturer's design seat back angle: 14.0˚ on Headrest Post
Tested seat back angle: 13.6˚ on Headrest Post
Tested seat position: Full Aft

Tested steering wheel angle: 21.2°
Thorax cavity angle: 27.4°
Bottom of chin height: 1 mm Above Plane F Module Height

Air Bag Deployment Timing

Stage No.	Firing time (ms)	Recorded firing time (ms)
1	0.0	0.0
2	30.0	30.0

5th Percentile Female SN 510 Position 1 (Chin On Module) 5/6/13

Injury Criteria	Max. Allowable Injury Assessment Values	Measured Value
HIC15	700	15
Peak Nij (Nte)	1.0	0.6
Time (ms)	NA	38.3
Peak Nij (Ntf)	1.0	0.3
Time (ms)	NA	7.7
Peak Nij (Nce)	1.0	0.0
Time (ms)	NA	6.2
Peak Nij (Ncf)	1.0	0.0
Time (ms)	NA	10.5
Neck Tension	2070 N	1013
Neck Compression	2520 N	27
Chest g	60 g	9
Chest Displacement	52 mm	7
Left Femur	6805 N	74
Right Femur	6805 N	69

Calculated on data recorded for 125 ms after the initiation of the final stage of air bag deployment designed to deploy in any full frontal rigid barrier crash up to 26 km/h. (S4.11 (d))
Second stage fire time of 30 ms; Injuries calculated on 0 ms to 155 ms.

The original equipment parts were used for this deployment.

DATA SHEET 30 SUMMARY

Low Risk Deployment Tests Using an Unbelted 5th Percentile Female Dummy (Part 572, Subpart O) (S26) Position 2 - Chin On Rim (S26.3)

NHTSA NO.:	C20135202	TEST DATE:	5/6/13
LABORATORY:	MGA	TECHNICIAN(S):	BR / WD
DUMMY TYPE:	5th Percentile Female	DUMMY SERIAL NO.:	510

Manufacturer's design seat back angle: 14.0˚ on Headrest Post
Tested seat back angle: 13.6˚ on Headrest Post
Tested seat position: Full Aft

Tested steering wheel angle: 21.2°
Thorax cavity angle: 27.0°
Chin Point height: 0 mm - At Steering Wheel Target
Note: The chin on rim steering wheel target is 10 mm below the highest point on the steering wheel

Air Bag Deployment Timing

Stage No.	Firing time (ms)	Recorded firing time (ms)
1	0.0	0.0
2	30.0	30.0

5th Percentile Female SN 510 Position 2 (Chin On Rim) 5/6/13

Injury Criteria	Max. Allowable Injury Assessment Values	Measured Value
HIC15	700	12
Peak Nij (Nte)	1.0	0.4
Time (ms)	NA	16.4
Peak Nij (Ntf)	1.0	0.2
Time (ms)	NA	30.4
Peak Nij (Nce)	1.0	0.0
Time (ms)	NA	7.4
Peak Nij (Ncf)	1.0	0.0
Time (ms)	NA	2.7
Neck Tension	2070 N	713
Neck Compression	2520 N	8
Chest g	60 g	27
Chest Displacement	52 mm	27
Left Femur	6805 N	99
Right Femur	6805 N	25

Calculated on data recorded for 125 ms after the initiation of the final stage of air bag deployment designed to deploy in any full frontal rigid barrier crash up to 26 km/h. (S4.11 (d))
Second stage fire time of 30 ms; Injuries calculated on 0 ms to 155 ms.

A new air bag was used for this deployment.

DATA SHEET 32

VEHICLE WEIGHT, FUEL TANK, AND ATTITUDE DATA

Test Vehicle: 2013 Nissan Frontier Truck
Test Program: FMVSS 208 Compliance
Test Technician: Chad Seebecker

NHTSA No.: C20135202
Test Date: 5/21/13

IMPACT ANGLE:	Zero						
BELTED DUMMIES (YES/NO):	YES						
TEST SPEED:		32 to 40 kmph		0 to 48 kmph	X	0 to 56 kmph	
DRIVER DUMMY:	X	5^{th} female			50^{th} male		
PASSENGER DUMMY:	X	5^{th} female			50^{th} male		

X	1.	Fill the transmission with transmission fluid to the satisfactory range.
X	2.	Drain fuel from vehicle.
X	3.	Run the engine until fuel remaining in the fuel delivery system is used and the engine stops.
X	4.	Record the useable fuel tank capacity supplied by the COTR.
X		Useable Fuel Tank Capacity supplied by COTR: 79.9 liters (21.1 gallons)
X	5.	Record the fuel tank capacity supplied in the owner's manual.
X		Useable Fuel Tank Capacity in owner's manual: 79.9 liters (21.1 gallons)
X	6.	Using purple dyed Stoddard solvent having the physical and chemical properties of Type 1 solvent or cleaning fluid, Table 1, ASTM Standard D484-71, "Standard Specifications for Hydrocarbon Dry-cleaning Solvents," or gasoline, fill the fuel tank.
X		Amount Added: 79.9 liters (21.1 gallons)
X	7.	Fill the coolant system to capacity.
X	8.	Fill the engine with motor oil to the Max. Mark on the dip stick.
X	9.	Fill the brake reservoir with brake fluid to its normal level.
X	10.	Fill the windshield washer reservoir to capacity.
X	11.	Inflate the tires to the tire pressure on the tire placard. If no tire placard is available, inflate the tires to the recommended pressure in the owner's manual.

Tire placard pressure:	RF:	35 psi	LF:	35 psi	RR:	35 psi	LR:	35 psi
Owner's manual pressure:	RF:	35 psi	LF:	35 psi	RR:	35 psi	LR:	35 psi
Actual inflated pressure:	RF:	35 psi	LF:	35 psi	RR:	35 psi	LR:	35 psi

X	12.	Record the vehicle weight at each wheel to determine the unloaded vehicle weight (UVW), i.e. "as delivered" weight).

Right Front (kg):	559.3	Right Rear (kg):	442.7
Left Front (kg):	571.5	Left Rear (kg):	436.8
Total Front (kg):	1130.8	Total Rear (kg):	879.5
% Total Weight:	56.3	% Total Weight:	43.7
UVW = TOTAL FRONT PLUS TOTAL REAR (KG):			2010.3

X	13.	UVW Test Vehicle Attitude: (All dimensions in millimeters)
X	13.1	Mark a point on the vehicle above the center of each wheel.
X	13.2	Place the vehicle on a level surface.
X	13.3	Measure perpendicular to the level surface to the 4 points marked on the body and record the measurements.

RF:	877	LF:	882	RR:	906	LR:	910

X 14. Calculate the Rated Cargo and Luggage Weight (RCLW): 136 kg

X 14.1 Does the vehicle have the vehicle capacity weight (VCW) on the certification label or tire placard?

X X Yes, go to 14.3

No, go to 14.2

14.2 VCW = Gross Vehicle Weight - UVW

VCW = _____ - _____ = _____

X 14.3 VCW = 575 kg (1268 lbs)

X 14.4 Does the certification or tire placard contain the Designated Seating Capacity (DSC)?

X Yes, go to 14.6

No, go to 14.5 and skip 14.6

14.5 DSC = Total number of seat belt assemblies = _____

X 14.6 DSC = 5

X 14.7 RCLW = VCW - (68 kg x DSC) = 575 kg - (68 kg x 5) = 235 kg (Greater than 136 kg)

X 14.8 Is the vehicle certified as a truck, MPV or bus (see the certification label on the door jamb)?

X Yes, if the calculated RCLW is greater than 136 kg, use 136 kg as the RCLW. (S8.1.1)

No, use the RCLW calculated in 14.7

X 15. Fully Loaded Weight (100% fuel fill): 2244.4 kg

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

Driver: X 5th female __ 50th male

Passenger: X 5th female __ 50th male

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

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

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

Right Front (kg):	570.6	Right Rear (kg):	548.4
Left Front (kg):	588.3	Left Rear (kg):	537.1
Total Front (kg):	1158.9	Total Rear (kg):	1085.5
% Total Weight:	51.6	% Total Weight:	48.4
% GVW	56.7	% GVW	57.3
(% GVW = Axle GVW divided by Vehicle GVW)			
Fully Loaded Weight = Total Front Plus Total Rear (kg):			2244.4

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

X 16.1 Place the vehicle on a level surface.

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

RF:	875	LF:	880	RR:	875	LR:	874

X 17. Drain the fuel system.

X 18. Using purple dyed Stoddard solvent having the physical and chemical properties of Type 1 solvent or cleaning fluid, Table 1, ASTM Standard D484-71, "Standard Specifications for Hydrocarbon Dry-cleaning Solvents," fill the fuel tank to 92 - 94 percent of useable capacity.

X Fuel tank capacity x .94 = 79.9 liters (21.1 gallons) x .94 = 75.1 liters (19.8 gallons)

X Amount added: 74.2 liters (19.6 gallons) 92.9%

X 19. Crank the engine to fill the fuel delivery system with Stoddard solvent.

X 20. Calculate the test weight range.

X 20.1 Calculated Weight = UVW (see 12 above) + RCLW (see 14 above) + 2x(dummy weight)

2244.3 kg = 2010.3 kg + 68 kg + 136 kg

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

Max. Test Weight = Calculated Test Weight - 4.5 kg = 2239.8 kg

Min. Test Weight = Calculated Test Weight - 9 kg = 2235.3 kg

X 21. Remove the RCLW from the cargo area.

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

X 23. Vehicle Components Removed For Weight Reduction:
Jack and Tools, Rear Floor Mats

X 24. Secure the equipment and ballast in the load carrying area and distribute it, as nearly as possible, to obtain the proportion of axle weight indicated by the gross axle weight ratings and center it over the longitudinal centerline of the vehicle.

X 25. If necessary, add ballast to achieve the actual test weight.

[ ] N/A

X Weight of Ballast: 91.6 kg

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

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

Right Front (kg):	590.1	Right Rear (kg):	536.2
Left Front (kg):	593.3	Left Rear (kg):	518.0
Total Front (kg):	1183.4	Total Rear (kg):	1054.2
% Total Weight:	52.9	% Total Weight:	47.1
% GVW	56.7	% GVW	57.3
(% GVW = Axle GVW divided by Vehicle GVW)			
TOTAL FRONT PLUS TOTAL REAR (kg):			2237.6

X 28. Is the test weight between the Max. Weight and the Min. Weight (See 20.2)?

X Yes

[ ] No, explain why not.

X 29. Test Weight Vehicle Attitude: (all dimensions in millimeters)

X 29.1 Place the vehicle on a level surface.

X 29.2 Measure perpendicular to the level surface to the 4 points marked on the body (see 13 above) and record the measurements.

RF:	876	LF:	881	RR:	877	LR:	877

X 30. Summary of test attitude

X 30.1 AS DELIVERED:

RF:	877	LF:	882	RR:	906	LR:	910

AS TESTED:

RF:	876	LF:	881	RR:	877	LR:	877

FULLY LOADED:

RF:	875	LF:	880	RR:	875	LR:	874

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

X Yes

No, explain why not.

REMARKS:

Signature: Date: 5/21/13

I certify that I have read and performed each instruction.

DATA SHEET 33

VEHICLE ACCELEROMETER LOCATION AND MEASUREMENT

Test Vehicle: 2013 Nissan Frontier Truck
Test Program: FMVSS 208 Compliance
Test Technician: Chad Seebecker

NHTSA No.: C20135202
Test Date: 5/21/13

IMPACT ANGLE:	Zero						
BELTED DUMMIES (YES/NO):	YES						
TEST SPEED:		32 to 40 kmph		0 to 48 kmph	X	0 to 56 kmph	
DRIVER DUMMY:	X	5^{th} female				50^{th} male	
PASSENGER DUMMY:	X	5^{th} female				50^{th} male	

X 1. Find the location where the vertical plane parallel to the longitudinal centerline of the vehicle and through the center of the left front outboard seating position intersects the left rear seat cross member. Install an accelerometer at this intersection on the rear seat cross member to record x-direction accelerations. Record the location on the following chart.

X 2. Find the location where the vertical plane parallel to the longitudinal centerline of the vehicle and through the center of the right front outboard seating position intersects the right rear seat cross member. Install an accelerometer at this intersection on the rear seat cross member to record x-direction accelerations. Record the location on the following chart.

X 3. Find the location where a vertical plane through the longitudinal centerline of the vehicle and a vertical transverse plane through the center of the two wheels on opposite sides of the engine intersect at the top of the engine. Install an accelerometer at this intersection to record x-direction accelerations. Record the location on the following chart.

X 4. Find the location where a vertical plane through the longitudinal centerline of the vehicle and a vertical transverse plane through the center of the two wheels on opposite sides of the engine intersect the bottom of the engine. Install an accelerometer at this intersection to record x-direction accelerations. Record the location on the following chart.

X 5. Install an accelerometer on the right front brake caliper to record x-direction accelerations. Record the location on the following chart.

X 6. Find the location where a vertical plane through the longitudinal centerline of the vehicle intersects the top of the instrument panel. Install an accelerometer at this intersection to record x-direction accelerations. Record the location on the following chart.

X 7. Install an accelerometer on the left front brake caliper to record x-direction accelerations. Record the location on the following chart.

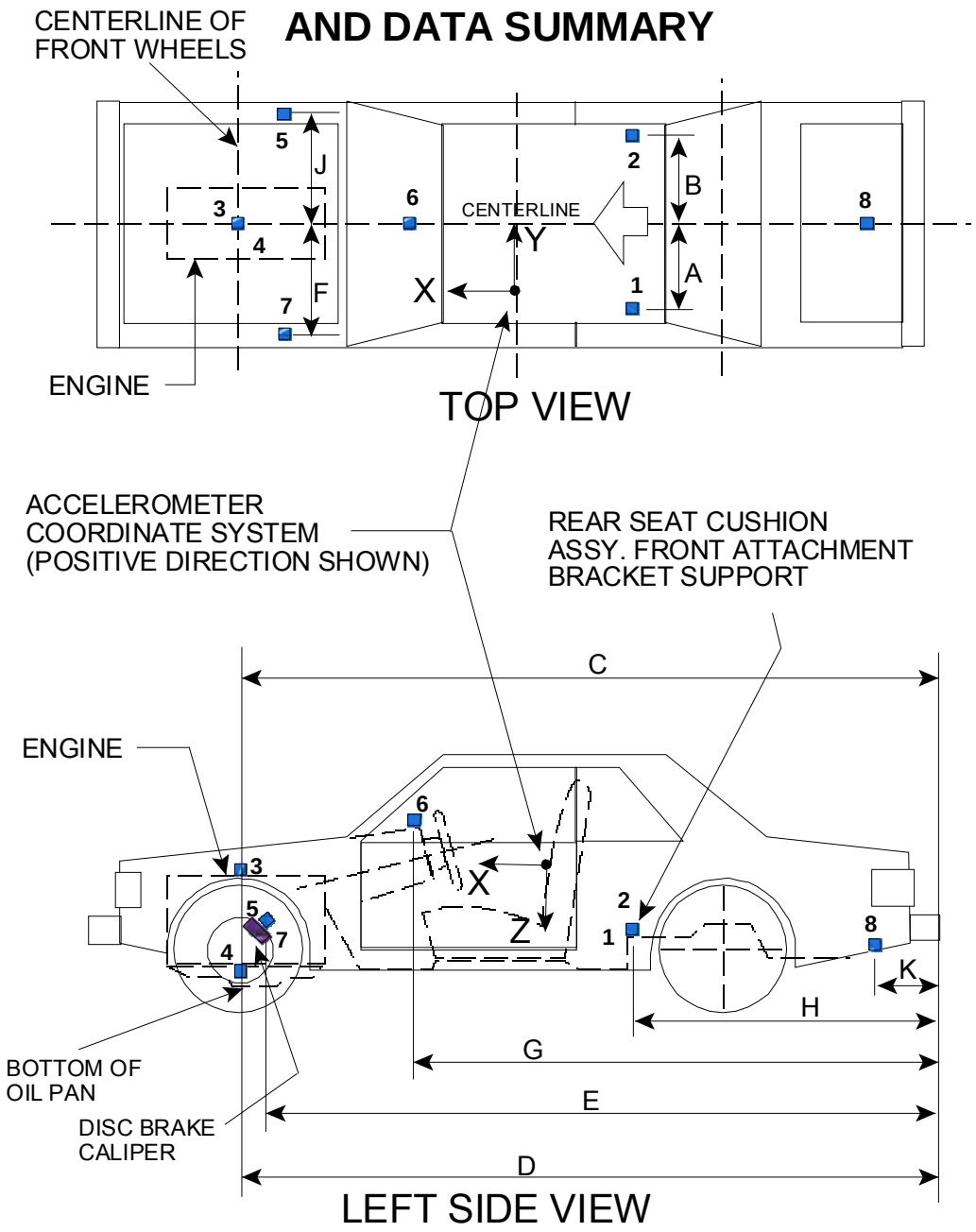
X 8. Find the location where a vertical plane through the longitudinal centerline of the vehicle intersects the floor of the trunk. Install an accelerometer on the trunk floor at this intersection to record z-direction accelerations. Record the location on the following chart.

REMARKS:

I certify that I have read and performed each instruction.

Signature: _____ Date: 5/21/13

VEHICLE ACCELEROMETER LOCATION AND DATA SUMMARY



Dimensions Corresponding To The Letters “A” Through “K” (Excluding “I”) Are Recorded In The Table On The Following Page.

Accelerometers Corresponding To The Numbers 1 Through 8 Are Specified On The Preceding Page.

VEHICLE ACCELEROMETER LOCATION AND MEASUREMENTS

DIMENSION	LENGTH (mm)	
PRETEST VALUES		
A (LH Rear Seat Xmbr)	354	
B (RH Rear Seat Xmbr)	312	
C (Engine Top)	4501	
D (Engine Bottom)	4182	
E (Caliper)	Right Side: 4283	Left Side: 4283
F (Left Caliper)	691	
G (IP)	3669	
H (Seat)	1779	
J (Right Caliper)	691	
K (Trunk)	263	
POST TEST VALUES		
A (LH Rear Seat Xmbr)	354	
B (RH Rear Seat Xmbr)	312	
C (Engine Top)	4449	
D (Engine Bottom)	4278	
E (Caliper)	Right Side: 4231	Left Side: 4224
F (Left Caliper)	691	
G (IP)	3726	
H (Seat)	1772	
J (Right Caliper)	691	
K (Trunk)	326	

DATA SHEET 34

PHOTOGRAPHIC TARGETS

Test Vehicle: 2013 Nissan Frontier Truck
Test Program: FMVSS 208 Compliance
Test Technician: Chad Seebecker

NHTSA No.: C20135202
Test Date: 5/21/13

IMPACT ANGLE:	Zero						
BELTED DUMMIES (YES/NO):	YES						
TEST SPEED:		32 to 40 kmph		0 to 48 kmph	X	0 to 56 kmph	
DRIVER DUMMY:	X	5^{th} female			50^{th} male		
PASSENGER DUMMY:	X	5^{th} female			50^{th} male		

X	1.	**FMVSS 208 vehicle targeting requirements** (See Figures 28A and 28B)
X	1.1	Targets A1 and A2 are on flat rectangular panels.
X	1.2	Three circular targets at least 90 mm in diameter and with black and yellow quadrants are mounted at the front on the outboard sides of A1 and A2. The center of each circular target is 100 mm from the one next to it.
X		Distance between targets (mm): 100 mm
X	1.3	Three circular targets at least 90 mm in diameter and with black and yellow quadrants are mounted at the back on the outboard sides of on A1 and A2. The center of each circular target is 100 mm from the one next to it.
X		Distance between targets (mm): 100 mm
X	1.4	The distance between the first circular target at the front of A1 and A2 and the last circular target at the back of A1 and A2 is at least 915 mm.
X		Distance between the first and last circular targets (mm): 915 mm
X	1.5	Firmly fix target A1 on the vehicle roof in the vertical longitudinal plane that is coincident with the midsagittal plane of the driver dummy.
X	1.6	Firmly fix target A2 on the vehicle roof in the vertical longitudinal plane that is coincident with the midsagittal plane of the passenger dummy.
X	1.7	Two circular targets (C1 and C2) at least 90 mm in diameter and with black and yellow quadrants are mounted on the outside of the driver door. The centers of each circular target are at least 610 mm apart.
X		Distance between targets (mm): 610 mm
X	1.8	Two circular targets (C1 and C2) at least 90 mm in diameter and with black and yellow quadrants are mounted on the outside of the passenger door. The centers of each circular target are at least 610 mm apart.
X		Distance between targets (mm): 610 mm
X	1.9	Place tape with squares having alternating colors on the top portion of the steering wheel.
X	1.10	Chalk the bottom portion of the steering wheel.
X	1.11	Is this an offset test?
		Yes, continue with this section
X		**No, go to 2.**
	1.12	Measure the width of the vehicle.
		Vehicle width (mm):
	1.13	Find the centerline of the vehicle. (½ of the vehicle width)
	1.14	Find the line parallel to the centerline of the vehicle and 0.1 x vehicle width from the centerline of the vehicle.
	1.15	Apply 25 mm wide tape with alternating black and yellow squares parallel to and on each side of the line found in 1.14. The edge of each tape shall be 50 mm from the line found in 1.14. The tape shall extend from the bottom of the bumper to the front edge of the windshield. (Figure 28D)

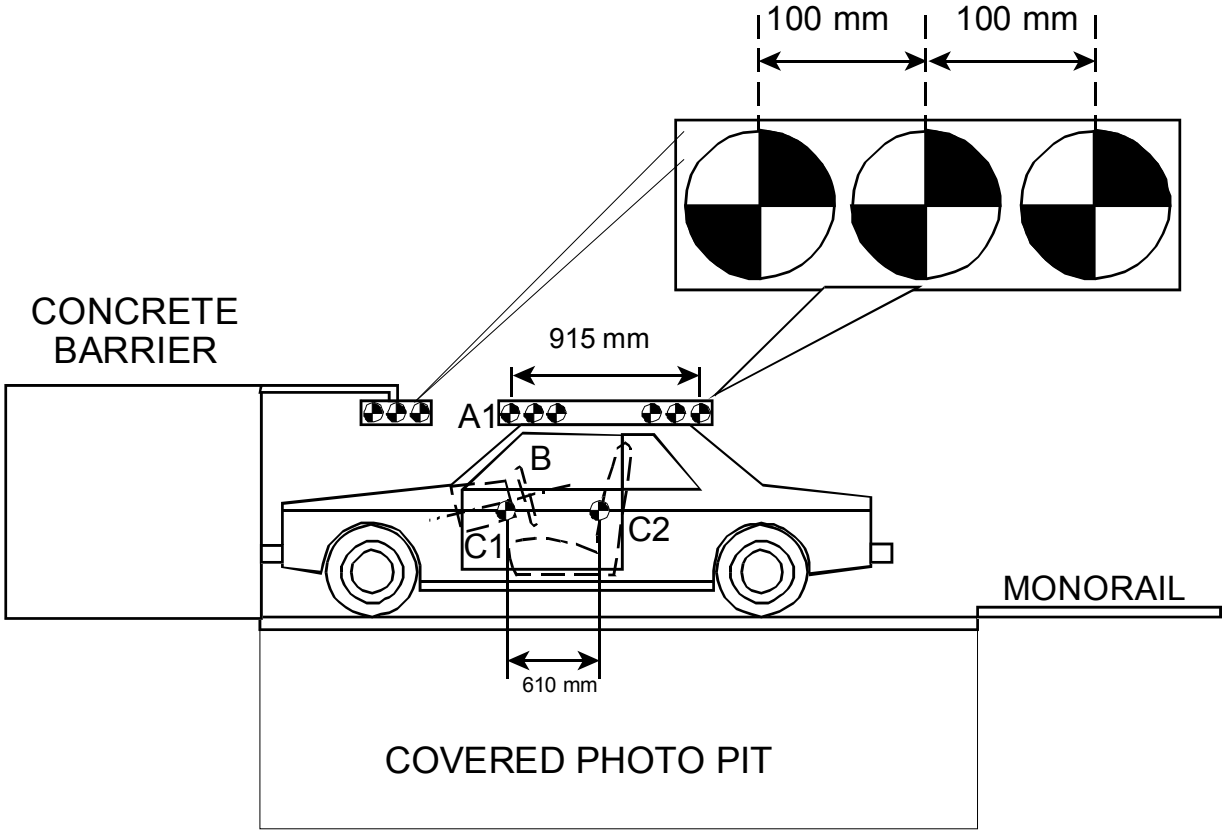
X	2.	**Barrier Targeting**
X	2.1	Fix two stationary targets D1 and D2 to the barrier as shown in the Figure 28A. One target is in the vertical longitudinal plane that is coincident with the midsagittal plane of the driver dummy. The other is in the vertical longitudinal plane that is coincident with the midsagittal plane of the passenger dummy.
X	2.2	Targets D1 and D2 are on a rectangular panel.
X	2.3	Three circular targets at least 90 mm in diameter and with black and yellow quadrants are mounted on the sides of the rectangular panel away from the longitudinal centerline of the vehicle. The center of each circular target is 100 mm from the one next to it.
X		Distance between circular targets on D1 (mm): 100 mm
X		Distance between circular targets on D2 (mm): 100 mm
X	3.	**FMVSS 208 Dummy Targeting Requirements**
X	3.1	Place a circular target with black and yellow quadrants on both sides of the driver dummy head as close as possible to the center of gravity of the head in the x and z direction (relative to the measuring directions of the accelerometers).
X	3.2	Place a circular target with black and yellow quadrants on both sides of the passenger dummy head as close as possible to the center of gravity of the head in the x and z direction (relative to the measuring directions of the accelerometers).
X	3.3	Place a circular target with black and yellow quadrants on the outboard shoulder of the driver dummy. Place the target as high up on the arm as possible at the intersection of the arm and shoulder. The sleeve of the shirt on the dummy may be cut to make the target visible, but do not remove any material.
X	3.4	Place a circular target with black and yellow quadrants on the outboard shoulder of the passenger dummy. Place the target as high up on the arm as possible at the intersection of the arm and shoulder. The sleeve of the shirt on the dummy may be cut to make the target visible, but do not remove any material.
X	4.	**FMVSS 204 Targeting Requirements**
X	4.1	Is an FMVSS 204 indicant test ordered on the "COTR Vehicle Work Order?"
		( ) Yes, continue with this form.
		(X) No, this form is complete.
	4.2	Resection panel (Figure 28C)
	4.2.1	The panel deviates no more than 6 mm from perfect flatness when suspended vertically
	4.2.2	The 8 targets on the panel are circular targets at least 90 mm in diameter and with black and yellow quadrants.
	4.2.3	The center of each of the 4 outer targets are placed within 1 mm of the corners of a square measuring 914 mm on each side.
	4.2.4	Locate another square with 228 mm sides and with the center of this square coincident with the center of the 914 mm square.
	4.2.5	The center of the 4 inner targets are placed at the midpoints of each of the 228 mm sides.
	4.3	Place a circular target at least 90 mm in diameter and with black and yellow quadrants on a material (cardboard, metal, etc.) that can be taped to the top of the steering column.
	4.4	Tape the target from 4.3 to the top of the steering column in a manner that does not interfere with the movement of the steering column in a crash.

REMARKS:

Signature: _____ Date: 5/21/13

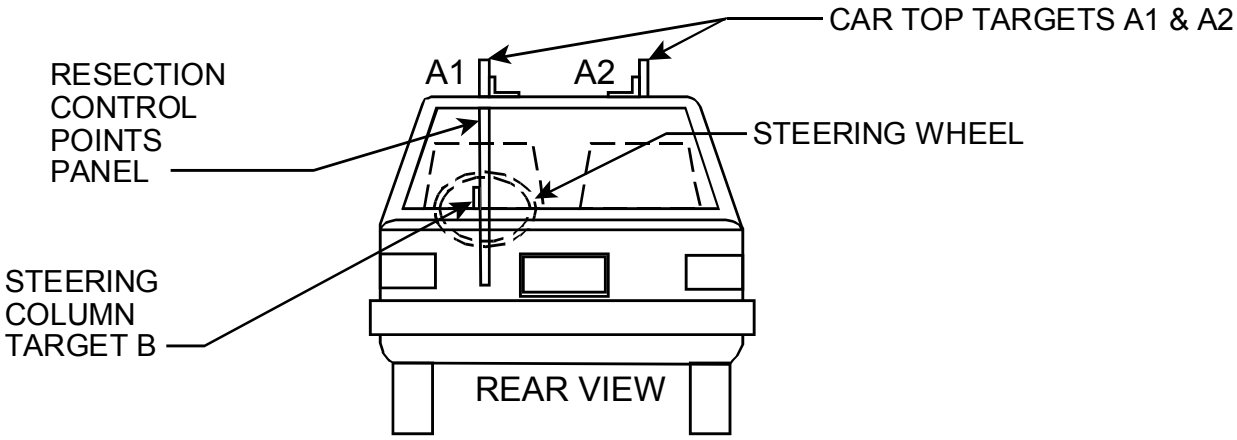
I certify that I have read and performed each instruction.

REFERENCE PHOTO TARGETS

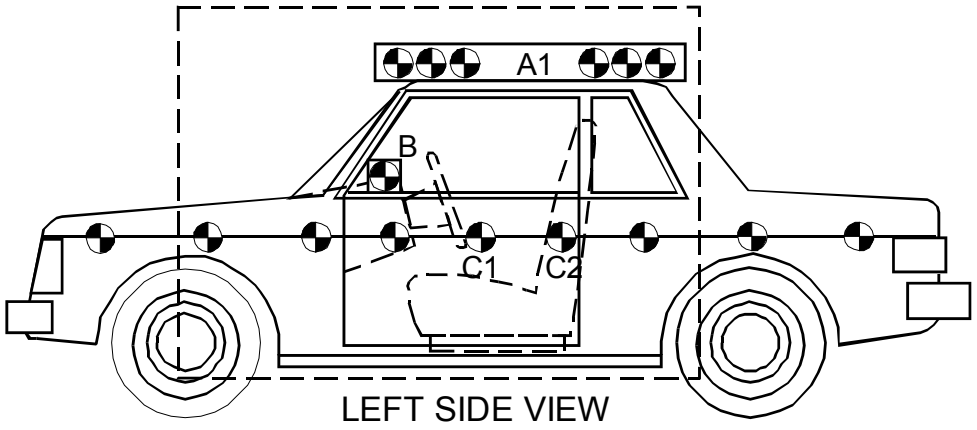


LEFT SIDE VIEW

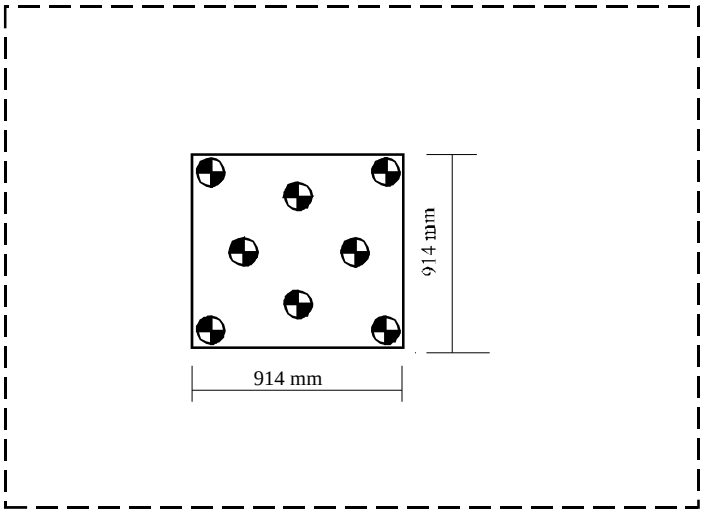
RESECTION PANEL TARGETING ALIGNMENT



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



PRE-RUN STEERING COLUMN HIGH SPEED CAMERA VIEW



LEFT SIDE VIEW

DATA SHEET 35

CAMERA LOCATIONS

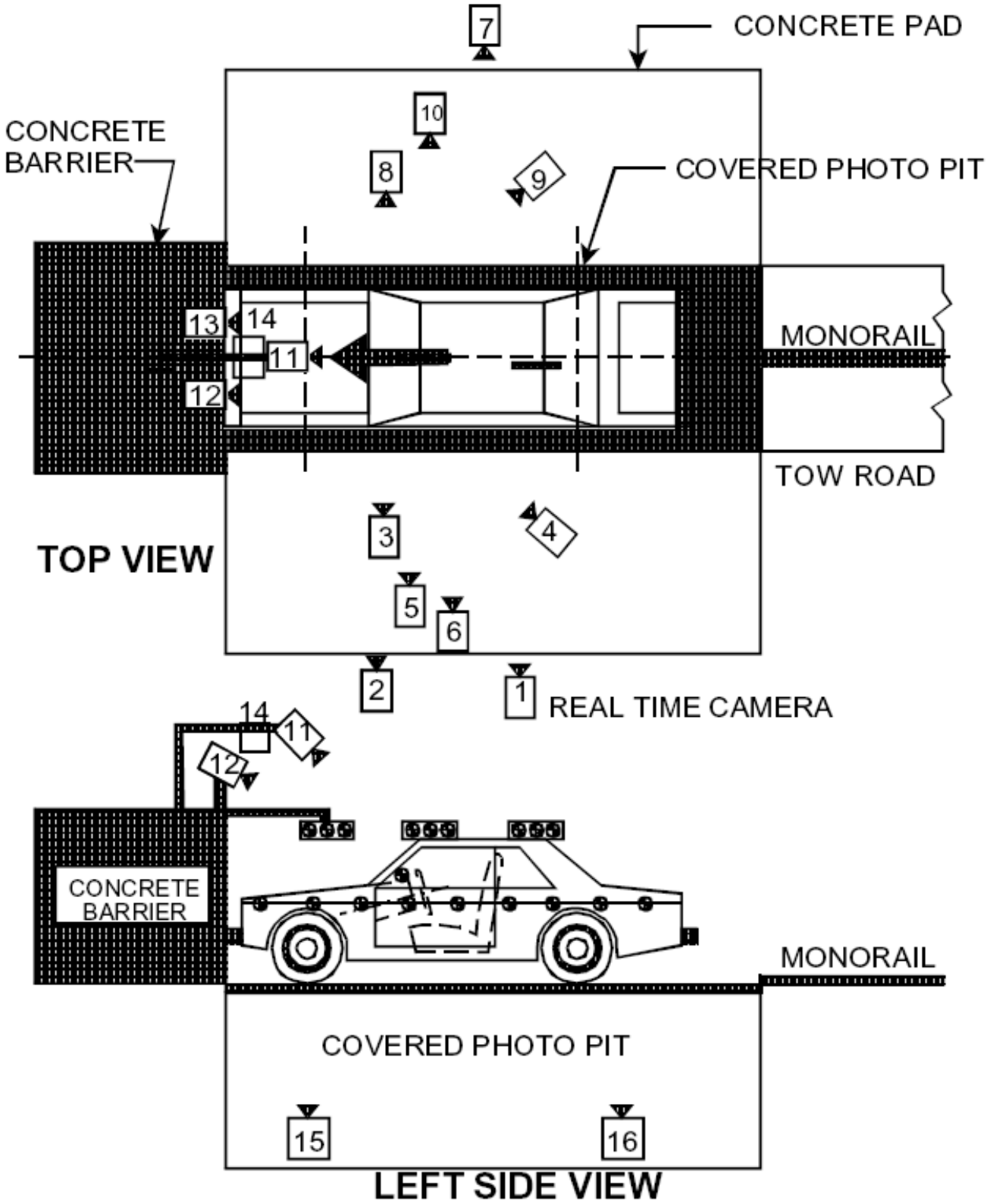
Test Vehicle: 2013 Nissan Frontier Truck
Test Program: FMVSS 208 Compliance

NHTSA No.: C20135202
Test Date: 5/21/13
Time: 10:04 am

CAMERA NO.	VIEW	CAMERA POSITIONS (mm) *			LENS (mm)	SPEED (fps)
		X	Y	Z		
1	Real Time Left Side View				13	24
2	Left Side View (Barrier face to front seat backs)	1160	-5090	1420	24	1000
3	Left Side View (Driver)	1460	-6141	1820	35	1000
4	Left Side View (B-post aimed toward center of steering wheel)	5670	-5741	1920	50	1000
5	Left Side View (Steering Column)	670	-5070	1240	24	1000
6	Left Side View (Steering Column)	680	-5000	830	24	1000
7	Right Side View (Overall)	2480	7290	1350	20	1000
8	Right Side View (Passenger)	1570	6450	1800	35	1000
9	Right Side View (Angle)	5980	5120	1850	50	1000
10	Right Side View (Front door)	1420	5150	1350	24	1000
11	Front View Windshield	-80	0	2830	24	1000
12	Front View Driver	-200	-400	2030	8.5	1000
13	Front View Passenger	-200	420	2010	8.5	1000
14	Overhead Barrier Impact View	2000	0	4910	14	1000
15	Pit Camera Engine View	3310	0	-3150	24	1000
16	Pit Camera Fuel Tank View	2000	0	-3150	24	1000

*COORDINATES:
+X - forward of impact plane
+Y - right of monorail centerline
+Z - above ground level

CAMERA POSITIONS FOR FMVSS 208



DATA SHEET 36 - APPENDIX G

DUMMY POSITIONING PROCEDURES

FOR 5th PERCENTILE FEMALE DRIVER TEST DUMMY CONFORMING TO SUBPART O OF PART 572

Test Vehicle: 2013 Nissan Frontier Truck
Test Program: FMVSS 208 Compliance
Test Technician: Joe Fleck

NHTSA No.: C20135202
Test Date: 5/21/13

IMPACT ANGLE:	Zero						
BELTED DUMMIES (YES/NO):	YES						
TEST SPEED:		32 to 40 kmph		0 to 48 kmph	X	0 to 56 kmph	
DRIVER DUMMY:	X	5th female			50th male		
PASSENGER DUMMY:	X	5th female			50th male		

1. Seat Position

X 1.1 Position the seat's adjustable lumbar supports so that the lumbar supports are in the lowest, retracted or deflated adjustment positions. (S16.2.10.1, S20.1.9.1, S20.4.1, S22.1.7.1)
X N/A – No lumbar adjustment

X 1.2 Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2, S20.1.9.2, S20.4.1, S22.1.7.1, S22.4.2.1, S22.4.3.1, S24.4.2.1, S26.2.3, S26.3.1)
X N/A – No additional support adjustment

X 1.3 Position an adjustable leg support system in its rearmost position. (8/27/04 interpretation to Toyota)
X N/A – No adjustable leg support system

X 1.4 **Mark** a point (seat cushion reference point) on the side of the seat cushion that is between 150 mm and 250 mm from the front edge of the seat cushion. (S16.3.1.12)

X 1.5 Draw a line (seat cushion reference line) through the seat cushion reference point. (S16.3.1.13)

X 1.6 Use only the controls that primarily move the seat in the fore-aft direction to move the seat cushion reference point to the rearmost position. (S16.2.10.3.1, S22.1.7.3)

X 1.7 If the seat cushion adjusts fore-aft, independent of the seat back, use only the controls that primarily move the seat cushion in the fore-aft direction to move the seat cushion reference point to the rearmost position. (S16.2.10.3.1, S20.1.9.3)
X N/A – No independent fore-aft seat cushion adjustment

X 1.8 Use any part of any control, other than the parts just used for fore-aft positioning, to determine the range of angles of the seat cushion reference line and to set the seat cushion reference line at the mid-angle. (S16.2.10.3.1)
Maximum angle: Zero
Minimum angle: Zero
Mid-angle: Zero

X 1.9 If the seat and/or seat cushion height is adjustable, use any part of any control other than the parts which primarily move the seat or seat cushion fore-aft, to put the seat cushion reference point in its lowest position with the seat cushion reference line angle at the mid-angle found in 1.8. (S16.2.10.3.1)
X N/A – No seat height adjustment

X 1.10 Use only the controls that primarily move the seat in the fore-aft direction to verify the seat is in the rearmost position.

X 1.11 Use only the controls that primarily move the seat in the fore-aft direction to **mark** the fore-aft seat positions. **Mark** each position so that there is a visual indication when the seat is at a particular position. For manual seats, move the seat forward one detent at a time and **mark** each detent. For power seats, **mark** only the rearmost, middle, and foremost positions. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the closest adjustment position to the rear of the mid-point), and R for rearmost.

X 1.12 Use only the controls that primarily move the seat in the fore-aft direction to place the seat in the rearmost position.

X 1.13 Use any part of any control, other than the parts which primarily move the seat or seat cushion fore-aft, to find and visually **mark** the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.8. (S20.1.9.4, S22.1.2, S22.1.7.4, S22.3.1, S22.4.3.1, S24.1.2, S24.3.1, S24.4.3.1, S26.2.3, S26.3.1)
X N/A – No seat height adjustment. Go to 1.18

__1.14 Use only the controls that primarily move the seat and/or seat cushion in the fore-aft direction to place the seat in the mid-fore-aft position.

__1.15 Use any part of any control, other than the parts which primarily move the seat or seat cushion fore-aft, to find and visually **mark** the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.8. (S20.1.9.4, S22.1.2, S22.1.7.4, S22.3.1, S24.1.2, S24.3.1)

__1.16 Use only the control that change the seat in the fore-aft direction to place the seat in the foremost position. (S16.2.10.3.2)

__1.17 Use any part of any control, other than the parts which primarily move the seat or seat cushion fore-aft, to find and visually **mark** the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.8. (S16.2.10.3.3, S20.1.9.4, S22.1.2, S22.1.7.4, S22.3.1, S24.1.2, S24.3.1)

X 1.18. Is the seat a bucket seat?
X Yes, go to 1.19 and skip 1.20
__No, go to 1.20 and skip 1.19

X 1.19 Bucket seats:
Locate and **mark** for future reference the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S16.3.1.10 & S20.1.10)

__1.20 Bench seats (complete ONLY the one that is applicable to the seat being marked):
Locate and **mark** for future reference the longitudinal line on the seat cushion that marks the intersection of the vertical longitudinal plane through the centerline of the steering wheel and the seat cushion upper surface.

2. Head Restraint Position

__N/A Vehicle contains automatic head restraints.
__N/A, there is no head restraint adjustment Go to 3

X_2.1 Adjust the head restraint to its lowest position. (S16.2.10.2, S20.1.9.6, S20.4.1, S22.1.7.6, S22.4.2.1, S22.4.3.1, S24.4.3.1, S26.2.3, S26.3.1)

X_2.2 All adjustments of the head restraint shall be used to position it full forward. For example, if it rotates, rotate it such that the head restraint extends as far forward as possible. **Mark** the foremost position. (S16.2.10.2 & S16.3.4.4 & S20.1.9.6, S20.4.1, S22.4.2.1, S22.4.3.1, S24.4.3.1, S26.2.3, S26.3.1)

X_2.3 Measure the vertical distance from the top most point of the head restraint to the bottom most point. Locate and **mark** a horizontal plane through the midpoint of this distance. (S16.3.4.3)

Vertical height of head restraint: _190_ mm
Mid-point height: _95_ mm

X_3. Is the **steering wheel** adjustable up and down and/or in and out?

X_Yes – go to 3.1
__No – Go to 4

X_3.1. Find and **mark** for future reference each up and down position. Label three of the positions with the following: H for highest, M for mid-position (if there is no mid-position, label the next lowest adjustment position), and L for lowest.
__N/A – steering wheel is not adjustable up and down

X_3.2. Find and **mark** for future references each in and out position. Label three of the Positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the next rearmost adjustment position), and R for rearmost.
_X_N/A – steering wheel is not adjustable in and out.

X_3.3. Use the markings to position the steering controls in the mid-position or if applicable next lowest detent position. (S16.2.9)

X_4. Place the SCRP in the full rearward, mid-height position, and mid-seat cushion angle, determined in Item 1. (S16.3.2.1.1)

X_5. If the vehicle has an adjustable accelerator pedal, place it in the full forward position. (S16.3.2.2.1)
X N/A accelerator pedal not adjustable

X_6. Fully recline the seat back. (S16.3.2.1.2)
__ N/A seat back not adjustable.

X_7. Place the dummy in the seat with the legs at an angle of 120 degrees to the thighs. The calves should not be touching the seat cushion. (S16.3.2.1.2)

X_8. Position the dummy in the seat such that the midsagittal plane is coincident with the longitudinal seat cushion markings as determined in Item 1.19 or 1.20. (S16.3.2.1.3 and S16.3.2.1.4)

X 9. Hold down the dummy's thighs and push rearward on the upper torso to maximize the pelvic angle. (S16.3.2.1.5)

X 10. Set the angle between the legs and the thighs to 120 degrees. (S16.3.2.1.6)

X 11. Set the transverse distance between the centers of the front of the knees at 160 to 170 mm. (6.3 to 6.7 inches) Center the knee separation with respect to the longitudinal seat cushion marking as determined in Item 1.19 or 1.20. (S16.3.2.1.6)

Record Knee Separation: 165 mm

X 12. Push rearward on the dummy's knees until the pelvis contacts the seat back, or the backs of the calves contact the seat cushion, whichever occurs first. (S16.3.2.1.6)
X Pelvis contacted seat back.
__ Calves contacted seat cushion.

X 13. Gently rock the upper torso ± 5 degrees (approximately 51 mm (2 inches)) side-to-side three times. (S16.3.2.1.7)

X 14. If needed, extend the legs until the feet do not contact the floor pan. The thighs should be resting on the seat cushion. (S16.3.2.1.8)

X 15. Position the right foot until the foot is in line with a longitudinal vertical plane passing through the center of the accelerator pedal. Maintain the leg and thigh in a vertical plane. (S16.3.2.1.8)

X 16. Rotate the left leg and thigh laterally to equalize the distance between each knee and the longitudinal seat cushion marking as determined in Item 1.19 or 1.20. (S16.3.2.1.8)

X 17. Attempt to return the seat to the foremost fore-aft position, mid-height, and seat cushion mid-angle as determined in Item 1. The foot may contact and depress the accelerator and/or change the angle of the foot with respect to the leg. (S16.3.2.1.8)
X Foremost position achieved. Proceed to step 22.
__ Foremost not achieved because of foot interference. Proceed to step 19.
__ Foremost not achieved because of steering wheel contact.

__ 18. If either of the dummy's legs contact the steering wheel, move the steering wheel up the minimum amount required to avoid contact. If the steering wheel is not adjustable separate the knees the minimum required to avoid contact. (S16.3.2.1.8)
__N/A- there was no leg contact
__Steering wheel repositioned
__Knees separated

__19. If the left foot interferes with the clutch or brake pedals, rotate the left foot about the leg to provide clearance. If this is not sufficient, rotate the thigh outboard at the hip the minimum amount required for clearance. (S16.3.2.1.8)
__ N/A, No foot interference with pedals.
__ Foot adjusted to provide clearance.
__ Foot and Thigh adjusted to provide clearance.

__20. Continue to move the seat. Use seat controls to line up the seat markings determined during item 1 to set the foremost fore-aft position, mid-height position and the seat cushion mid-angle. If the dummy contacts the interior move the seat rearward until a maximum clearance of 5 mm (0.2 inches) is achieved or the seat is in the closest detent position that does not cause dummy contact. (S16.3.2.1.8)
__Foremost, mid-height position and the seat cushion mid-angle reached
__Dummy contact. Clearance set at maximum of 5 mm
Measured Clearance:_____
__Dummy Contact. Seat set at nearest detent position.
Seat position: ___ detent positions rearward of foremost
(foremost is position zero)

__21. If the steering wheel was repositioned in step 18, return the steering wheel to the original position. If the steering wheel contacts the dummy before reaching the original position, position the wheel until a maximum clearance of 5 mm (.2 inches) is achieved, or the steering wheel is in the closest detent position that does not cause dummy contact. (S16.3.2.1.8)
__N/A Steering wheel was not repositioned.
__Original position achieved.
__Dummy contact. Clearance set at maximum of 5 mm
Measured Clearance:_____
__Dummy Contact. Steering wheel set at nearest detent position.
Steering wheel position: ___ detent positions upward of original position.
(Original position is position zero)

X_22. If the seat back is adjustable, rotate the seat back forward while holding the thighs in place. Continue rotating the seat back forward until the transverse instrument platform of the dummy head is level ± 0.5 degrees. If the head cannot be leveled using the seat back adjustment, or the seat back is not adjustable, use the lower neck bracket adjustment to level the head. If a level position cannot be achieved, minimize the angle. (S16.3.2.1.9)
X_Head Level Achieved. (Check all that apply)
X_Head leveled using the adjustable seat back
__Head leveled using the neck bracket.
Head Angle: __0.3___ degrees
__Head Level NOT Achieved. (Check all that apply)
__Head adjusted using the adjustable seat back
__Head adjusted using the neck bracket.
Head Angle: _____ degrees

X_23. Verify the pelvis is not interfering with the seat bight. (S16.3.2.1.9)
X_No interference
__Pelvis moved forward the minimum amount so that it is not caught in the seat bight.

X_24. Verify the dummy abdomen is properly installed. (S16.3.2.1.9)
X_Abdomen still seated properly into dummy
__Abdomen was adjusted because it was not seated properly into dummy

X_25. Head Angle
X_N/A, neither the pelvis nor the abdomen were adjusted.

X_25.1 Head still level (Go to 26)

__25.2 Head level adjusted
__Head Level Achieved. (Check all that apply)
__Head leveled using the adjustable seat back
__Head leveled using the neck bracket.
Head Angle: _____ degrees
__Head Level NOT Achieved. (Check all that apply)
__Head level adjusted using the adjustable seat back
__Head level adjusted using the neck bracket.
Head Angle: _____ degrees

X_26. If the dummy torso contacts the steering wheel while performing step 22, reposition the steering wheel in the following order to eliminate contact. (S16.3.2.1.9)
X_N/A, No dummy torso contact with the steering wheel.

__26.1 Adjust telescoping mechanism.
__N/A No telescoping adjustment.
__Adjustment performed (fill in appropriate change)
Steering wheel moved ____ detent positions in the forward direction.
Steering wheel moved ____ mm in the forward direction.

__26.2 Adjust tilt mechanism.
__N/A No tilt adjustment.
__No adjustment performed.
__Adjustment performed. (circle one)
Steering wheel moved ____ detent positions Upward/Downward.
Steering wheel moved ____ degrees Upward/Downward

__26.3 Adjust Seat in the aft direction.
__No Adjustment performed.
__Seat moved aft ___ mm from original position.
__Seat moved aft ___ detent positions from the original position.

X_27. Measure and set the pelvic angle using the pelvic angle gage TE-2504. The pelvic angle should be 20.0 degrees ± 2.5 degrees. If the pelvic angle cannot be set to the specified range because the head will not be level or because the dummy will have need major repositioning, adjust the pelvis as closely as possible to the angle range, but keep the head level. (S16.3.2.1.11)
X_Pelvic angle set to 20.0 degrees ± 2.5 degrees.
__Pelvic angle of 20.0 degrees not achieved, the angular difference was minimized.
X_Record the pelvic angle: ___20.5_____ degrees

X_28. Check the dummy for contact with the interior after completing adjustments. (S16.3.2.1.12)
X_No contact.
__Dummy in contact with interior.
__Seat moved aft ___ mm from the previous position.
__Seat moved aft ___ detent positions from the previous position.

X_29. Check the dummy to see if additional interior clearance is obtained, allowing the seat to be moved forward. (S16.3.2.1.12)
X_N/A, Seat already at foremost position.
__Clearance unchanged. No adjustments required.
__Additional clearance available
__Seat moved Forward ___ mm from the previous position.
__Seat moved Forward ___ detent positions from the previous position.

X 30. Driver's foot positioning, right foot. Place the foot perpendicular to the leg and determine if the heel contacts the floor pan at any leg position. If the heel contacts the floor pan proceed to step 31 otherwise, proceed to step 32. (S16.3.2.2.1)

X 31. Perform the following steps until either all steps are completed, or the foot contacts the accelerator pedal. Step 31.6 shall be completed in all cases. (S16.3.2.2.1(a))

X 31.1 With the rear of the heel contacting the floor pan, move the foot forward until pedal contact occurs or the foot is at the full forward position.

__31.2 If the vehicle has an adjustable accelerator pedal, move the pedals rearward until pedal contact occurs or the pedals reach the full rearward position.

__31.3 Extend the leg, allowing the heel to lose contact with the floor until the foot contacts the pedal. Do not raise the toe of the foot higher than the top of the accelerator pedal. If the foot does not contact the pedal, proceed to the next step. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.3)

__31.4 Angle the foot to achieve contact between the foot and the pedal. If the foot does not contact the pedal, return the foot to the perpendicular orientation. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.3)

__31.5 Align the centerline of the foot with the vertical-longitudinal plane passing through the center of the accelerator pedal. Place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.3)

X 31.6 Record foot position

X Pedal Contact achieved. Contact occurred at step 31.1.

X Heel contacts floor pan

__ Heel set _____ mm from floor pan.

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

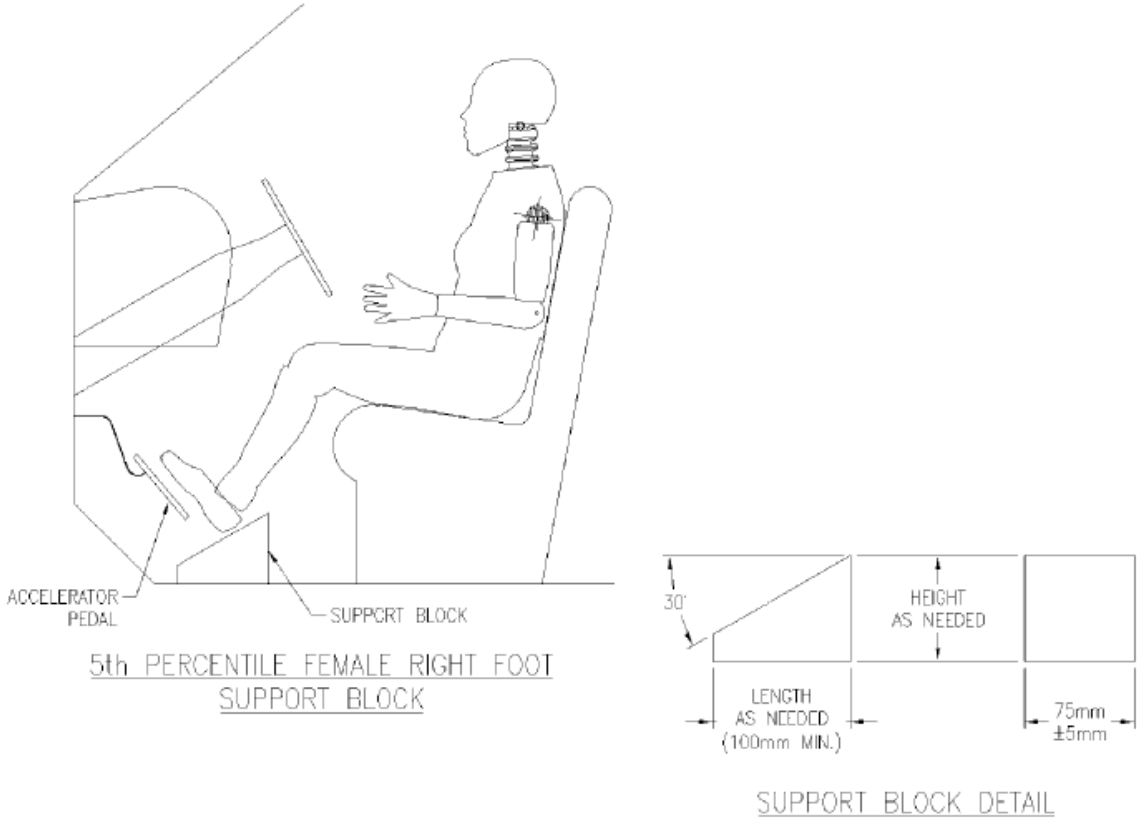


FIGURE G1

__32. Perform the following steps until either all steps are completed, or the foot contacts the accelerator pedal. Step 30.5 shall be completed in all cases.

__32.1 Extend the leg until the foot contacts the pedal. Do not raise the toe of the foot higher than the top of the accelerator pedal. If the foot does not contact the pedal, proceed to the next step. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.1(b) & S16.3.2.2.3)

__32.2 If the vehicle has an adjustable accelerator pedal, move the pedals rearward until pedal contact occurs or the pedals reach the full rearward position. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.1(b) & S16.3.2.2.3)

__N/A No pedal adjustment

__32.3 Angle the foot to achieve contact between the foot and the pedal. If the foot does not contact the pedal, return the foot to the perpendicular orientation. If pedal contact does occur, place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.2 & S16.3.2.2.3)

__32.4 Align the centerline of the foot in the same horizontal plane as the centerline of the accelerator pedal. Place a tapered foam block as shown in Figure G1 under the heel with the shallow part of the taper facing forward. (S16.3.2.2.3)

__32.5 Record foot position

__Pedal Contact achieved. Contact occurred at step _____.

__ Heel set _____ mm from floor pan.

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

X 33. Driver's foot positioning, left foot.

X 33.1 Place the foot perpendicular to the leg and determine if the heel contacts the floor pan at any leg position. If the heel contacts the floor pan proceed to step 33.2, otherwise position the leg as perpendicular to the thigh as possible with the foot parallel to the floor pan. (S16.2.2.6)

X 33.2 Place the foot on the toe board with the heel resting on the floor pan as close to the intersection of the floor pan and the toe board as possible. Adjust the angle of the foot if necessary to contact the toe board. If the foot will not contact the toe board, set the foot perpendicular to the leg, and set the heel on the floor pan as far forward as possible. Avoid contact with the brake pedal, clutch pedal, wheel well projection, and footrest. To avoid this contact use the following three manipulations in the order listed, with each subsequent option incorporating the previous, until contact is avoided: rotate the foot about the lower leg (abduction/adduction), plantar flex the foot, rotate the leg outboard about the hip. Movement should be the minimum amount necessary. If it is not possible to avoid all foot contact, give priority to avoiding brake or clutch pedal contact. (S16.2.2.4 & S16.2.2.5 & S16.2.2.7)

X No contact
__Foot rotated about the leg (abduction/adduction)
__Foot rotated about the leg, and foot plantar flexed
__Foot rotated about the leg, foot plantar flexed, and the leg rotated about the hip.

X 33.3 Record foot position.

__Heel does not contact floor pan.
__Heel on floor pan and foot on toe board.
X Heel on floor pan and foot not on toe board.

X 34. Driver arm/hand positioning.

X 34.1 Place the dummy's upper arms adjacent to the torso with the arm centerlines as close to a vertical longitudinal plane as possible. (S16.3.2.3.1)

X 34.2 Place the palms of the dummy in contact with the outer part of the steering wheel rim at its horizontal centerline with the thumbs over the steering wheel rim. (S16.3.2.3.2)

X 34.3 If it is not possible to position the thumbs inside the steering wheel rim at its horizontal centerline, then position them above and as close to the horizontal centerline of the steering wheel rim as possible. (S16.3.2.3.3)

X 34.4 Lightly tape the hands to the steering wheel rim so that if the hand of the test dummy is pushed upward by a force of not less than 9 N (2 lb) and not more than 22 N (5 lb), the tape releases the hand from the steering wheel rim. (S16.3.2.3.4)

X 35. Adjustable head restraints
__N/A, there is no head restraint adjustment

__35.1 If the head restraint has an automatic adjustment, leave it where the system positions the restraint after the dummy is placed in the seat. (S16.3.4.1) Go to 36.

__35.2 Adjust each head restraint vertically so that the mid-horizontal plane determined in Item 2 is aligned with the center of gravity (CG) of the dummy head. (S16.3.4.3)

X 35.3 If the above position is not attainable, move the vertical center of the head restraint to the closest detent below the center of the head CG. (S16.3.4.3)

__N/A midpoint position attained in previous step

X Headrest set at nearest detent below the head CG

__35.4 If the head restraint has a fore and aft adjustment, place the restraint in the foremost position or until contact with the head is made, whichever occurs first. (S16.3.4.4)

X 36. Driver and passenger manual belt adjustment (for tests conducted with a belted dummy). (S16.3.5)

__ N/A Dummies are unbelted for this test.

X 36.1 If an adjustable seat belt D-ring anchorage exists, place it in the manufacturer's design position for a 5th percentile adult female. (S16.3.5.1) **This information will be supplied by the COTR.**

Manufacturer's specified position: Upper-most

Actual Position: Upper-most

X 36.2 Place the Type 2 manual belt around the test dummy and fasten the latch. (S16.3.5.2)

X 36.3 Ensure that the dummy's head remains as level as possible. (S16.3.5.3)

X 36.4 Remove all slack from the lap belt. Pull the upper torso webbing out of the retractor and allow it to retract; repeat this operation four times. Apply a 9 N (2 lbf) to 18 N (4 lbf) tension load to the lap belt. If the belt system is equipped with a tension-relieving device, introduce the maximum amount of slack into the upper torso belt that is recommended by the manufacturer. If the belt system is not equipped with a tension-relieving device, allow the excess webbing in the shoulder belt to be retracted by the retractive force of the retractor. (S16.3.5.4)

I certify that I have read and performed each instruction.

Signature: Joe Fleck Date: 5/21/13

DATA SHEET 36 - APPENDIX G

DUMMY POSITIONING PROCEDURES

FOR 5th PERCENTILE FEMALE PASSENGER TEST DUMMY CONFORMING TO SUBPART O OF PART 572

Test Vehicle: 2013 Nissan Frontier Truck
Test Program: FMVSS 208 Compliance
Test Technician: Alex Vanderheyden

NHTSA No.: C20135202
Test Date: 5/21/13

IMPACT ANGLE:	Zero						
BELTED DUMMIES (YES/NO):	YES						
TEST SPEED:		32 to 40 kmph		0 to 48 kmph	X	0 to 56 kmph	
DRIVER DUMMY:	X	5th female			50th male		
PASSENGER DUMMY:	X	5th female			50th male		

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

1. Seat Position

X 1.1 Position the seat's adjustable lumbar supports so that the lumbar supports are in the lowest, retracted or deflated adjustment positions. (S16.2.10.1, S20.1.9.1, S20.4.1, S22.1.7.1)
X N/A – No lumbar adjustment

X 1.2 Position any adjustable parts of the seat that provide additional support so that they are in the lowest or most open adjustment position. (S16.2.10.2, S20.1.9.2, S20.4.1, S22.1.7.1, S22.4.2.1, S22.4.3.1, S24.4.2.1, S26.2.3, S26.3.1)
X N/A – No additional support adjustment

X 1.3 Position an adjustable leg support system in its rearmost position. (8/27/04 interpretation to Toyota)
X N/A – No adjustable leg support system

X 1.4 **Mark** a point (seat cushion reference point) on the side of the seat cushion that is between 150 mm and 250 mm from the front edge of the seat cushion. (S16.3.1.12)

X 1.5 Draw a line (seat cushion reference line) through the seat cushion reference point. (S16.3.1.13)

X 1.6 Use only the controls that primarily move the seat in the fore-aft direction to move the seat cushion reference point to the rearmost position. (S16.2.10.3.1, S22.1.7.3)

X 1.7 If the seat cushion adjusts fore-aft, independent of the seat back, use only the controls that primarily move the seat cushion in the fore-aft direction to move the seat cushion reference point to the rearmost position. (S16.2.10.3.1, S20.1.9.3)
X N/A – No independent fore-aft seat cushion adjustment

X 1.8 Use any part of any control, other than the parts just used for fore-aft positioning, to determine the range of angles of the seat cushion reference line and to set the seat cushion reference line at the mid-angle. (S16.2.10.3.1)

Maximum angle: Zero
Minimum angle: Zero
Mid-angle: Zero

X 1.9 If the seat and/or seat cushion height is adjustable, use any part of any control other than the parts which primarily move the seat or seat cushion fore-aft, to put the seat cushion reference point in its lowest position with the seat cushion reference line angle at the mid-angle found in 1.8. (S16.2.10.3.1)
X N/A – No seat height adjustment

X 1.10 Use only the controls that primarily move the seat in the fore-aft direction to verify the seat is in the rearmost position.

X 1.11 Use only the controls that primarily move the seat in the fore-aft direction to **mark** the fore-aft seat positions. **Mark** each position so that there is a visual indication when the seat is at a particular position. For manual seats, move the seat forward one detent at a time and **mark** each detent. For power seats, **mark** only the rearmost, middle, and foremost positions. Label three of the positions with the following: F for foremost, M for mid-position (if there is no mid-position, label the closest adjustment position to the rear of the mid-point), and R for rearmost.

X 1.12 Use only the controls that primarily move the seat in the fore-aft direction to place the seat in the rearmost position.

X 1.13 Use any part of any control, other than the parts which primarily move the seat or seat cushion fore-aft, to find and visually **mark** the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.8. (S20.1.9.4, S22.1.2, S22.1.7.4, S22.3.1, S22.4.3.1, S24.1.2, S24.3.1, S24.4.3.1, S26.2.3, S26.3.1)
X N/A – No seat height adjustment. Go to 1.18

__1.14 Use only the controls that primarily move the seat and/or seat cushion in the fore-aft direction to place the seat in the mid-fore-aft position.

__ 1.15 Use any part of any control, other than the parts which primarily move the seat or seat cushion fore-aft, to find and visually **mark** the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.8. (S20.1.9.4, S22.1.2, S22.1.7.4, S22.3.1, S24.1.2, S24.3.1)

__1.16 Use only the controls that change the seat in the fore-aft direction to place the seat in the foremost position. (S16.2.10.3.2)

__1.17 Use any part of any control, other than the parts which primarily move the seat or seat cushion fore-aft, to find and visually **mark** the maximum, minimum, and middle height of the seat cushion reference point with the seat cushion reference line at the mid-angle determined in 1.8. (S16.2.10.3.3, S20.1.9.4, S22.1.2, S22.1.7.4, S22.3.1, S24.1.2, S24.3.1)

X 1.18. Is the seat a bucket seat?
X Yes, go to 1.19 and skip 1.20
__No, go to 1.20 and skip 1.19

X 1.19 Bucket seats:

Locate and **mark** for future reference the longitudinal centerline of the seat cushion. The intersection of the vertical longitudinal plane that passes through the SgRP and the seat cushion upper surface determines the longitudinal centerline of a bucket seat cushion. (S16.3.1.10 & S20.1.10)

__1.20 Bench seats:

Locate and **mark** the longitudinal centerline of the passenger seat cushion. The longitudinal centerline is the same distance from the longitudinal centerline of the vehicle as the center of the steering wheel. (S20.2.1.4, S22.2.1.3, S24.2.3, S20.4.4, S22.2.2.1 (b), S22.2.2.3 (b), S22.2.2.4 (a), S22.2.2.5 (a), S22.2.2.6 (a), S22.2.2.7 (a), S24.2.3 (a))

Record the distance from the longitudinal centerline of the vehicle to the center of the steering wheel. _____

Record the distance from the longitudinal centerline of the vehicle to the longitudinal centerline of the seat cushion. (The vertical plane through this longitudinal centerline is Plane B for suppression.) _____

2. Head Restraint Position

__N/A Vehicle contains automatic head restraints.

__N/A, there is no head restraint adjustment Go to 3

X 2.1 Adjust the head restraint to its lowest position. (S16.2.10.2, S20.1.9.6, S20.4.1, S22.1.7.6, S22.4.2.1, S22.4.3.1, S24.4.3.1, S26.2.3, S26.3.1)

X 2.2 All adjustments of the head restraint shall be used to position it full forward. For example, if it rotates, rotate it such that the head restraint extends as far forward as possible. **Mark** the foremost position. (S16.2.10.2 & S16.3.4.4 & S20.1.9.6, S20.4.1, S22.4.2.1, S22.4.3.1, S24.4.3.1, S26.2.3, S26.3.1)

X 2.3 Measure the vertical distance from the top most point of the head restraint to the bottom most point. Locate and **mark** a horizontal plane through the midpoint of this distance. (S16.3.4.3)

Vertical height of head restraint: 190 mm

Mid-point height: 95 mm

X 3. Place the SCRP in the full rearward, mid-height position, and mid-seat cushion angle. (S16.3.3.1.1)

X 4. Fully recline the seat back. (S16.3.3.1.2)

__ N/A seat back not adjustable.

X 5. 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 6. Position the dummy in the seat such that the midsagittal plane is coincident with the longitudinal seat cushion marking that was determined in item 1.19 or 1.20. (S16.3.3.1.3 and S16.3.3.1.4)

X 7. Hold down the dummy's thighs and push rearward on the upper torso to maximize the pelvic angle. (S16.3.3.1.5)

X 8. Set the angle between the legs and the thighs to 120 degrees. (S16.3.3.1.6)

X 9. Set the transverse distance between the centers of the front of the knees at 160 to 170 mm. (6.3 to 6.7 inches). Center the knee separation with respect to the longitudinal seat cushion marking that was determined in item 1.19 or 1.20. (S16.3.3.1.6)
Record Knee Separation: 165

X 10. 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)
X Pelvis contacted seat back.
__Calves contacted seat cushion.

X 11. Gently rock the upper torso ± 5 degrees (approximately 51 mm (2 inches)) side-to-side three times. (S16.3.3.1.7)

X 12. 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 13. Use seat controls to line up the seat markings determined during the completion of item 1 to set the foremost fore-aft position, mid-height position and the seat cushion mid-angle. If the dummy contacts the interior move the seat rearward until a maximum clearance of 5 mm (0.2 inches) is achieved or the seat is in the closest detent position that does not cause dummy contact. (S16.3.3.1.8)
__Foremost, mid-height position and the seat cushion mid-angle reached
__Dummy contact. Clearance set at maximum of 5 mm
Measured Clearance:_____
X Dummy Contact. Seat set at nearest detent position.
Seat position 2 detent positions rearward of foremost
(foremost is position zero)

X 14. If the seat back is adjustable, rotate the seat back forward while holding the thighs in place. Continue rotating the seat back forward until the transverse instrument platform of the dummy head is level ± 0.5 degrees. If head cannot be leveled using the seat back adjustment, or the seat back is not adjustable, use the lower neck bracket adjustment to level the head. If a level position cannot be achieved, adjust the head as closely as possible to the ± 0.5 degree range. (S16.3.3.1.9 and S16.3.3.1.10)
(Check All That Apply)
__Seat back not adjustable
__Seat back not independent of driver side seat back
X Head Level Achieved. (Check all that apply)
X Head leveled using the adjustable seat back
__Head leveled using the neck bracket.
Head Angle: 0.5 degrees
__Head Level NOT Achieved. (Check all that apply)
__ Head adjusted using the adjustable seat back
__ Head adjusted using the neck bracket.
Head Angle: _____ degrees

X 15. Verify the pelvis is not interfering with the seat bight. (S16.3.3.1.9)
X No interference
__Pelvis moved forward the minimum amount so that it is not caught in the seat bight.

X 16. Verify the dummy abdomen is properly installed. (S16.3.3.1.9)
X Abdomen still seated properly into dummy
__Abdomen was adjusted because it was not seated properly into dummy

X 17. Head Angle
X N/A, neither the pelvis nor the abdomen were adjusted.

X 17.1 Head still level (Go to 18)

__17.2 Head level adjusted

__Head Level Achieved. (Check all that apply)

__Head leveled using the adjustable seat back

__Head leveled using the neck bracket.

Head Angle: _____ degrees

__Head Level NOT Achieved. (Check all that apply)

__Head adjusted using the adjustable seat back

__Head adjusted using the neck bracket.

Head Angle: _____ degrees

X 18. Measure and set the pelvic angle using the pelvic angle gage TE-2504. The pelvic angle should be 20.0 degrees ± 2.5 degrees. If the pelvic angle cannot be set to the specified range because the head will not be level or because the dummy will have need major repositioning, adjust the pelvis as closely as possible to the angle range, but keep the head level.

X Pelvic angle set to 20.0 degrees ± 2.5 degrees.

__Pelvic angle of 20.0 degrees not achieved, the angular difference was minimized.

X Record the pelvic angle: ___19.9_____ degrees

X 19. Check the dummy for contact with the interior after completing adjustments.

X No contact.

__Dummy in contact with interior.

__Seat moved aft ___ mm from the previous position.

__Seat moved aft ___ detent positions from the previous position.

X 20. Verify the transverse instrument platform of the dummy head is level +/- 0.5 degrees. Use the lower neck bracket adjustment to level the head. If a level position cannot be achieved, minimize the angle. (S16.3.3.1.9, S16.3.3.1.10, and S16.3.3.1.11)

X Head Level Achieved

Head Angle: ___0.0_____ degrees

__Head Level NOT Achieved.

Head Angle: _____ degrees

X 21. Check the dummy to see if additional interior clearance is obtained, allowing the seat to be moved forward. (S16.3.3.1.12)

__N/A Bench Seat

__N/A Seat already at full forward position.

X Clearance unchanged. No adjustments required.

__Additional clearance available

__Seat moved Forward ___ mm from the previous position.

__Seat moved Forward ___ detent positions from the previous position.

__Seat moved Forward, Full Forward position reached.

X 22. Passenger foot positioning. (Indicate final position achieved) (S16.3.3.2)

X 22.1 Place feet flat on the toe board; OR (S16.3.3.2.1)

X 22.2 If the feet cannot be placed flat on the toe board, set the feet perpendicular to the lower leg, and rest the heel as far forward on the floor pan as possible; OR (S16.3.3.2.2)

__22.3 If the heels do not touch the floor pan, set the legs as perpendicular to the thighs as possible and set the feet parallel to the floor pan. (S16.3.3.2.2)

X 23. Passenger arm/hand positioning. (S16.3.3.3)

X 23.1 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)

X 23.2 Place the palms of the dummy in contact with the outer part of the thighs (S16.3.3.3.2)

X 23.3 Place the little fingers in contact with the seat cushion. (S16.3.3.3.3)

X 24. Adjustable head restraints (S16.3.4)
__N/A, there is no head restraint adjustment

__24.1 If the head restraint has an automatic adjustment, leave it where the system positions the restraint after the dummy is placed in the seat. (S16.3.4.1) Go to 25.

__24.2 Adjust each head restraint vertically so that the horizontal plane determined in Item 2 is aligned with the center of gravity (CG) of the dummy head. (S16.3.4.3)

X 24.3 If the above position is not attainable, move the vertical center of the head restraint to the closest detent below the center of the head CG. (S16.3.4.3)
__N/A midpoint position attained in previous step
X Headrest set at nearest detent below the head CG

__24.4 If the head restraint has a fore and aft adjustment, place the restraint in the foremost position or until contact with the head is made, whichever occurs first. (S16.3.4.4)

X 25. Manual belt adjustment (for tests conducted with a belted dummy) (S16.3.5)
__N/A, Unbelted test

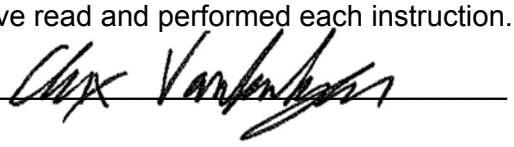
X 25.1 If an adjustable seat belt D-ring anchorage exists, place it in the manufacturer's design position for a 5th percentile adult female. **This information will be supplied by the COTR.** (S16.3.5.1)
Manufacturer's specified position: Upper-most
Actual Position: Upper-most

X 25.2 Place the Type 2 manual belt around the test dummy and fasten the latch. (S16.3.5.2)

X 25.3 Ensure that the dummy's head remains as level as possible. (S16.3.5.3)

X 25.4 Remove all slack from the lap belt. Pull the upper torso webbing out of the retractor and allow it to retract; repeat this operation four times. Apply a 9 N (2 lbf) to 18 N (4 lbf) tension load to the lap belt. If the belt system is equipped with a tension-relieving device, introduce the maximum amount of slack into the upper torso belt that is recommended by the manufacturer. If the belt system is not equipped with a tension-relieving device, allow the excess webbing in the shoulder belt to be retracted by the retractive force of the retractor. (S16.3.5.4)

I certify that I have read and performed each instruction.

Signature:  Date: 5/21/13

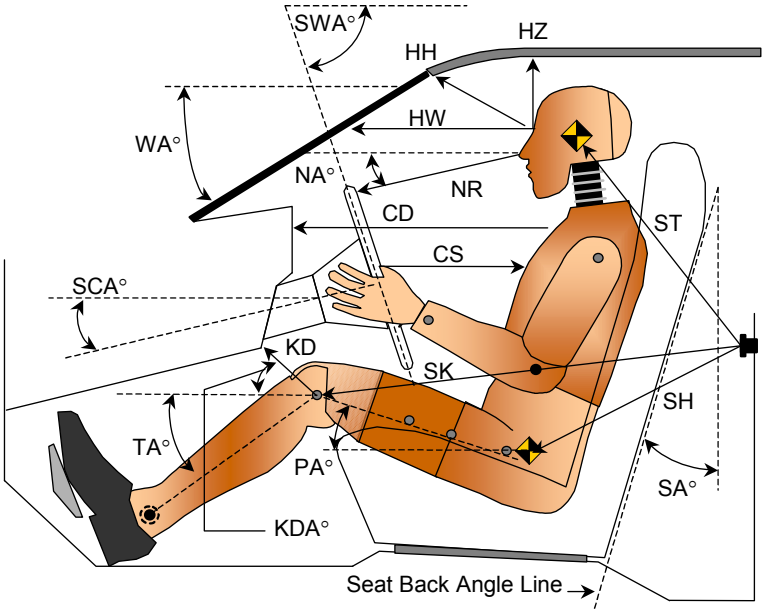
DATA SHEET 37

DUMMY MEASUREMENTS

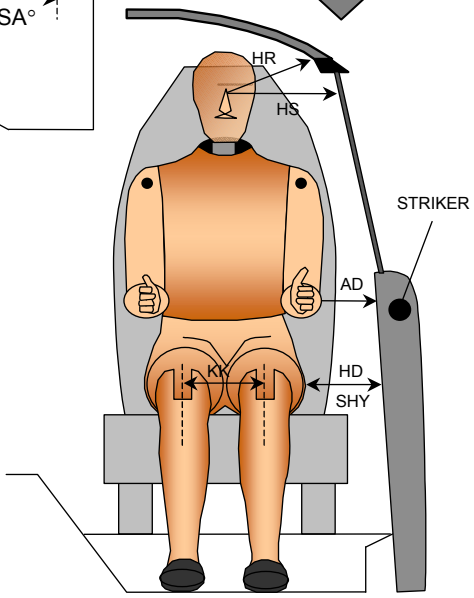
Test Vehicle: 2013 Nissan Frontier Truck
Test Program: FMVSS 208 Compliance
Test Technician: Alex Vanderheyden

NHTSA No.: C20135202
Test Date: 5/21/13

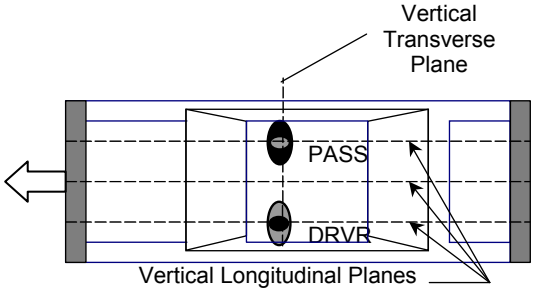
DUMMY MEASUREMENTS FOR FRONT SEAT OCCUPANTS



AD	Arm to Door
HD	H-Point to Door
HR	Head to Side Header
HS	Head to Side Window
KK	Knee to Knee
SHY	Striker to H-Point (Y Axis)



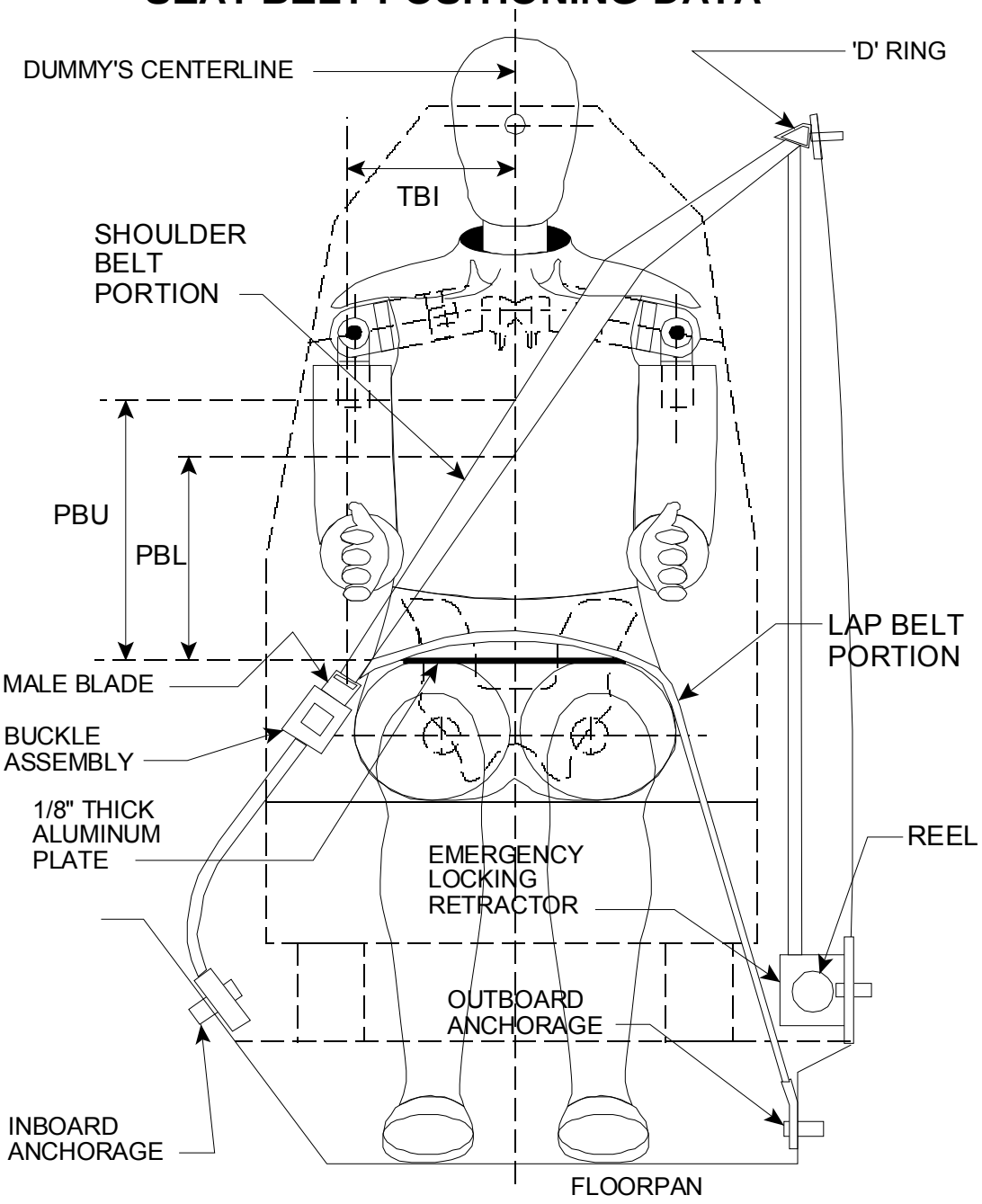
CD	Chest to Dash
CS	Chest to Steering Wheel Hub
HH	Head to Header
HW	Head to Windshield
HZ	Head to Roof
KDA	Knee to Dash Angle
KDL	Left Knee to Dash
KDR	Right Knee to Dash
NA	Nose to Rim Angle
NR	Nose to Rim
PA	Pelvic Angle
RA	Rim to Abdomen
SA	Seat Back Angle
SCA	Steering Column Angle
SH	Striker to H-Point
SK	Striker to Knee
ST	Striker to Head
SWA	Steering Wheel Angle
TA	Tibial Angle
WA	Windshield Angle



TEST DUMMY POSITION MEASUREMENTS

Code	Measurement Description	Driver SN 125		Passenger SN 124	
		Length (mm)	Angle (°)	Length (mm)	Angle (°)
WA	Windshield Angle		34.2		
SWA	Steering Wheel Angle		69.2		
SCA	Steering Column Angle		20.8		
SA	Seat Back Angle (On Headrest Post)		5.0		8.7
HZ	Head to Roof (Z)	226		225	
HH	Head to Header	288	46.8	297	37.6
HW	Head to Windshield	608	0.0	599	0.0
HR	Head to Side Header (Y)	258		251	
NR	Nose to Rim	251	6.8		
CD	Chest to Dash	458		426	
CS	Chest to Steering Hub	193	4.4		
RA	Rim to Abdomen	96	0		
KDL	Left Knee to Dash	78	25.5	84	
KDR	Right Knee to Dash	67		77	24.1
PA	Pelvic Angle		20.5		19.9
TA	Tibia Angle		60.5		55.6
KK	Knee to Knee (Y)	290		216	
SK	Striker to Knee	676	92.0	668	90.2
ST	Striker to Head	560	26.1	574	34.2
SH	Striker to H-Point	376	100.3	428	97.4
SHY	Striker to H-Point (Y)	302		332	
HS	Head to Side Window	335		352	
HD	H-Point to Door (Y)	208		196	
AD	Arm to Door (Y)	146		68	
AA	Ankle to Ankle	265		172	

SEAT BELT POSITIONING DATA



FRONT VIEW OF DUMMY

SEAT BELT POSITIONING MEASUREMENTS

Measurement Description	Units	Driver	Passenger
PBU - Top surface of reference to belt upper edge	mm	305	300
PBL - Top surface of reference to belt lower edge	mm	225	215

DATA SHEET 38

CRASH TEST

Test Vehicle: 2013 Nissan Frontier Truck NHTSA No.: C20135202
Test Program: FMVSS 208 Compliance Test Date: 5/21/13
Test Technician: Alex Vanderheyden

IMPACT ANGLE:	Zero						
BELTED DUMMIES (YES/NO):	YES						
TEST SPEED:		32 to 40 kmph		0 to 48 kmph	X	0 to 56 kmph	
DRIVER DUMMY:	X	5^{th} female				50^{th} male	
PASSENGER DUMMY:	X	5^{th} female				50^{th} male	

X 1. Vehicle underbody painted.
X 2. The speed measuring devices are in place and functioning.
X 3. The speed measuring devices are 1.0 m from the barrier (spec. 1.5 m) and 30 cm from the barrier (spec. is 30 cm).
X 4. Convertible top is in the closed position.
  X N/A, not a convertible.
X 5. Instrumentation and wires are placed so motion of dummies during impact is not affected.
X 6. Tires inflated to pressure on tire placard or if it does not have a tire placard because it is not a passenger car, then inflated to the tire pressure specified in the owner information.
  240 kpa front left tire 240 kpa specified on tire placard or in owner information
  240 kpa front right tire 240 kpa specified on tire placard or in owner information
  240 kpa rear left tire 240 kpa specified on tire placard or in owner information
  240 kpa rear right tire 240 kpa specified on tire placard or in owner information
X 7. Time zero contacts on barrier in place.
X 8. Pre test zero and shunt calibration adjustments performed and recorded.
X 9. Dummy temperature meets requirements of section 12.2 of the test procedure.
X 10. Vehicle hood closed and latched.
X 11. Transmission placed in neutral.
X 12. Parking brake off.
X 13. Are the heads still level?
  X Yes, go to 14
  No, Adjust dummy so that head is at the angle recorded in the Appendix F or G data sheets and then continue.
X 14. Ignition in the ON position.
X 15. Doors closed and latched but not locked.
X 16. Post test zero and shunt calibration checks performed and recorded.
X 17. Actual test speed: 55.5 kmph
X 18. Vehicle rebound from the barrier: 148 cm
X 19. Describe whether the doors open after the test and what method is used to open the doors.
  X Left Front Door: Door remained closed and latched; Door opened without tools.
  X Right Front Door: Door remained closed and latched; Door opened without tools.
  X Left Rear Door: Door remained closed and latched; Door opened without tools.
  X Right Rear Door: Door remained closed and latched; Door opened without tools.

[X] 20. Describe the contact points of the dummy with the interior of the vehicle.

[X] Driver Dummy: Head to Air Bag and Headrest; Chest to Air Bag; Knees to Knee Bolster

[X] Passenger Dummy: Head to Air Bag and Headrest; Chest to Air Bag; Knees to Glove Box.

REMARKS:

Signature: Date: 5/21/13

I certify that I have read and performed each instruction.

DATA SHEET 40

ACCIDENT INVESTIGATION MEASUREMENTS

Test Vehicle: 2013 Nissan Frontier Truck
Test Program: FMVSS 208 Compliance
Test Technician: Chad Seebecker

NHTSA No.: C20135202
Test Date: 5/21/13

IMPACT ANGLE:	Zero						
BELTED DUMMIES (YES/NO):	YES						
TEST SPEED:		32 to 40 kmph		0 to 48 kmph	X	0 to 56 kmph	
DRIVER DUMMY:	X	5^{th} female			50^{th} male		
PASSENGER DUMMY:	X	5^{th} female			50^{th} male		

Vehicle Year/Make/Model/Body Style:	2013 Nissan Frontier Truck
VIN:	1N6AD0EVXDN719534
Wheelbase:	3204 mm
Build Date:	02/13
Vehicle Size Category:	6
Test Weight:	2237.6 kg
Front Overhang:	786 mm
Overall Width:	1783 mm
Overall Length Center:	5214 mm

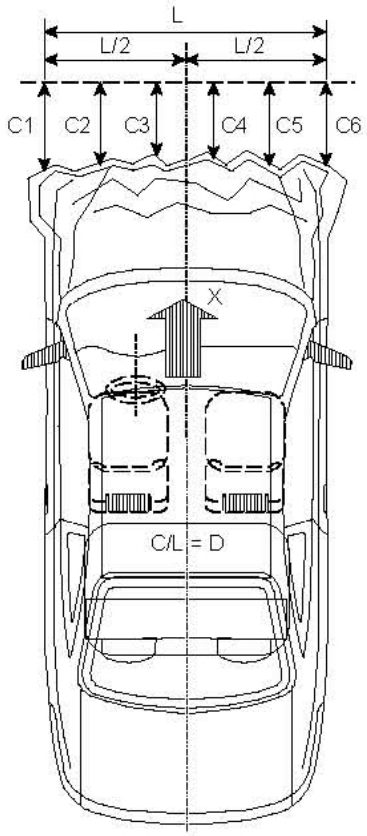
Accelerometer Data	
Location:	As per measurements on Data Sheet 33
Linearity:	>99.9%

Integration Algorithm:	Trapezoidal
Vehicle Impact Speed:	55.5 kmph
Time of Separation:	108.8 ms
Velocity Change:	63.5 kmph

CRUSH PROFILE

Collision Deformation Classification: 12FDEW3
Midpoint of Damage: Vehicle Longitudinal Centerline
Damage Region Length (mm): 1272
Impact Mode: Frontal Barrier

No.	Measurement Description	Units	Pre-Test	Post-Test	Difference
C1	Crush zone 1 at left side	mm	5114	4780	334
C2	Crush zone 2 at left side	mm	5162	4762	400
C3	Crush zone 3 at left side	mm	5187	4790	397
C4	Crush zone 4 at right side	mm	5187	4825	362
C5	Crush zone 5 at right side	mm	5162	4800	362
C6	Crush zone 6 at right side	mm	5114	4789	325



REMARKS:

Signature: _____ Date: 5/21/13

I certify that I have read and performed each instruction.

DATA SHEET 41

WINDSHIELD MOUNTING (FMVSS 212)

Test Vehicle: 2013 Nissan Frontier Truck
Test Program: FMVSS 208 Compliance
Test Technician: Chad Seebecker

NHTSA No.: C20135202
Test Date: 5/21/13

IMPACT ANGLE:	Zero						
BELTED DUMMIES (YES/NO):	YES						
TEST SPEED:		32 to 40 kmph		0 to 48 kmph	X	0 to 56 kmph	
DRIVER DUMMY:	X	5^{th} female				50^{th} male	
PASSENGER DUMMY:	X	5^{th} female				50^{th} male	

1. Pre-Crash

X 1.1 Describe from visual inspection how the windshield is mounted and describe any trim material.

Retained with glue
Rubber and plastic trim

X 1.2 Mark the longitudinal centerline of the windshield.

X 1.3 Measure pre-crash A, B, and C for the left side and record in the chart below.

X 1.4 Measure pre-crash C, D, and E for the right side and record in the chart below.

X 1.5 Measure from the edge of the retainer or molding to the edge of the windshield.

X Dimension G (mm): 14 mm

2. Post Crash

X 2.1 Can a single thickness of copier type paper (as small a piece as necessary) slide between the windshield and the vehicle body?

X No - Pass. Skip to the table of measurements, complete it by repeating the pre-crash measurements in the post crash column, and calculate the retention percentage, which will be 100%.

Yes, go to 2.2

2.2 Visibly mark the beginning and end of the portions of the periphery where the paper slides between the windshield and the vehicle body.

2.3 Measure and record post-crash A, B, C, D, E, and F such that the measurements do not include any of the parts of the windshield where the paper slides between the windshield and the vehicle body.

2.4 Calculate and record the percent retention for the right and left side of the windshield.

2.5 Is total right side percent retention less than 75%?

Yes, Fail

X No, Pass

2.6 Is total left side percent retention less than 75%?

Yes, Fail

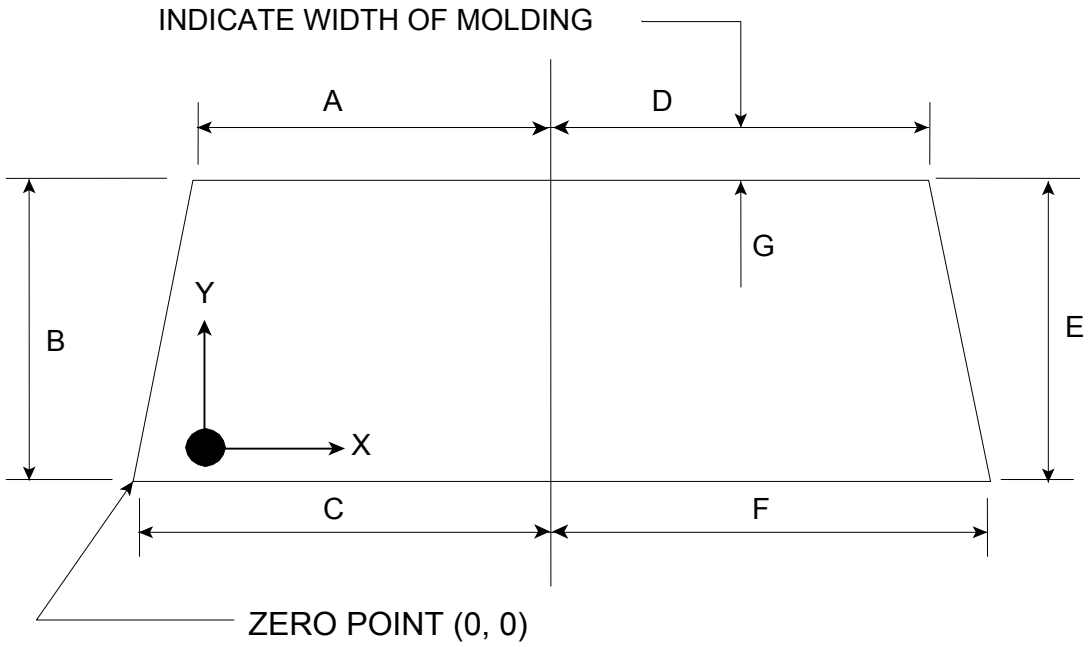
X No, Pass

WINDSHIELD RETENTION MEASUREMENTS

	Dimension	Pre-Crash (mm)	Post-Crash (mm)	Percent Retention (Post-Test ÷ Pre-Crash)
Left Side	A	605	605	100%
	B	770	770	100%
	C	769	769	100%
	Total	2144	2144	100%
Right Side	D	605	605	100%
	E	770	770	100%
	F	769	769	100%
	Total	2144	2144	100%

Indicate area of mounting failure: NONE

FRONT VIEW OF WINDSHIELD



REMARKS:

Signature: _____ Date: 5/21/13

I certify that I have read and performed each instruction.

DATA SHEET 42

WINDSHIELD ZONE INTRUSION (FMVSS 219)

Test Vehicle: 2013 Nissan Frontier Truck
Test Program: FMVSS 208 Compliance
Test Technician: Chad Seebecker

NHTSA No.: C20135202
Test Date: 5/21/13

IMPACT ANGLE:	Zero						
BELTED DUMMIES (YES/NO):	YES						
TEST SPEED:		32 to 40 kmph		0 to 48 kmph	X	0 to 56 kmph	
DRIVER DUMMY:	X	5^{th} female				50^{th} male	
PASSENGER DUMMY:	X	5^{th} female				50^{th} male	

This standard specifies limits for the displacement of vehicle components into the windshield area during a frontal barrier impact test at any speed up to and including 48 kmph.

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

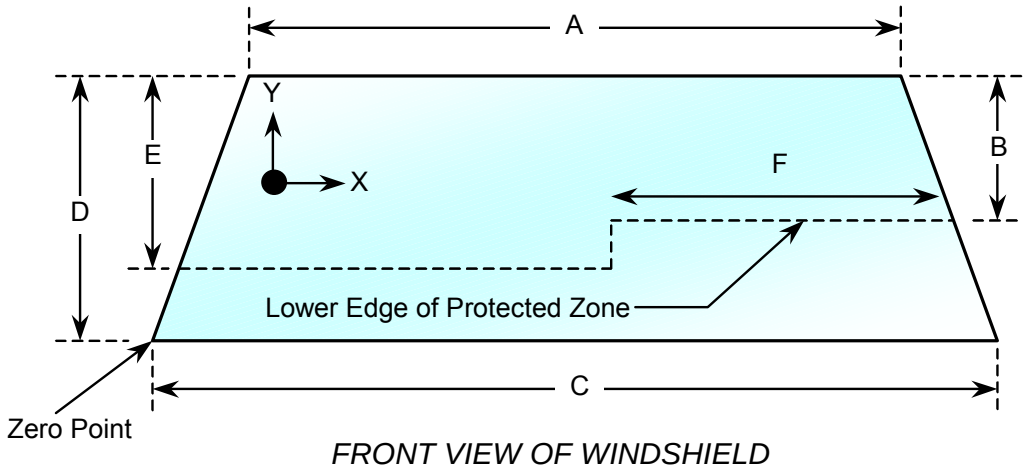
X 2. Roll the sphere from one side of the windshield to the other while marking on the windshield where the sphere contacts the windshield. (571.219 S6.1(b))

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

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

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

Provide all dimensions necessary to reproduce the protected area.



FRONT VIEW OF WINDSHIELD

WINDSHIELD DIMENSIONS

Item	Units	Value
A	mm	1210
B	mm	502
C	mm	1538
D	mm	770
E	mm	491
F	mm	520

AREA OF PROTECTED ZONE FAILURES:

B. Provide coordinates of the area that the protected zone was penetrated more than 0.25 inches by a vehicle component other than one which is normally in contact with the windshield.

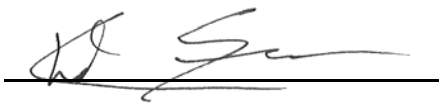
X	Y
NONE	

C. Provide coordinates of the area beneath the protected zone template that the inner surface of the windshield was penetrated by a vehicle component.

X	Y
NONE	

REMARKS:

I certify that I have read and performed each instruction.

Signature:  Date: 5/21/13

DATA SHEET 43

FUEL SYSTEM INTEGRITY (FMVSS 301)

Test Vehicle:	2013 Nissan Frontier Truck	NHTSA No.:	C20135202
Test Program:	FMVSS 208 Compliance	Test Date:	5/21/13
Test Technician:	Chad Seebecker		

TYPE OF IMPACT:	35 mph Belted

Stoddard Solvent Spillage Measurements

A. From impact until vehicle motion ceases: 0.0 grams
(Maximum Allowable = 28 grams)

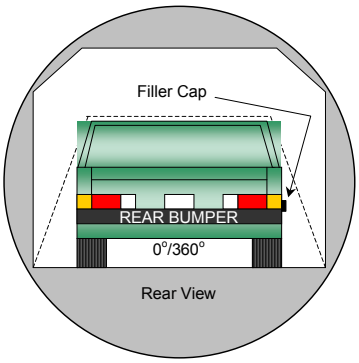
B. For the 5 minute period after motion ceases: 0.0 grams
(Maximum Allowable = 142 grams)

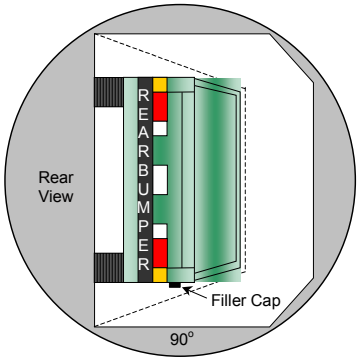
C. For the following 25 minutes: 0.0 grams
(Maximum Allowable = 28 grams/minute)

D. Spillage: NONE

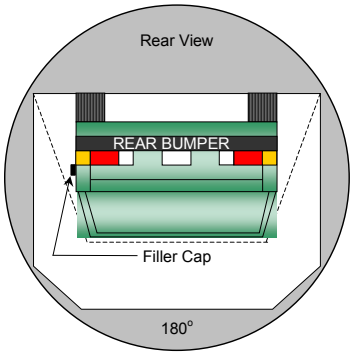
REMARKS: NO SPILLAGE

FMVSS 301 STATIC ROLLOVER DATA

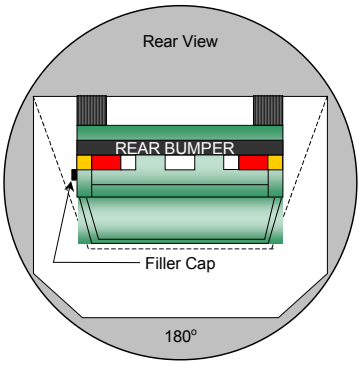




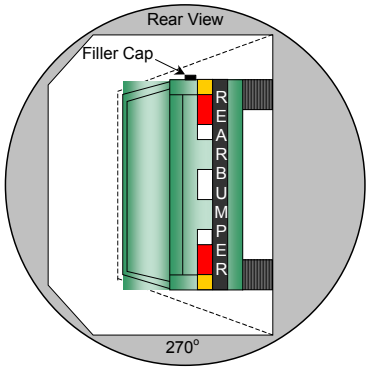
0° to 90°



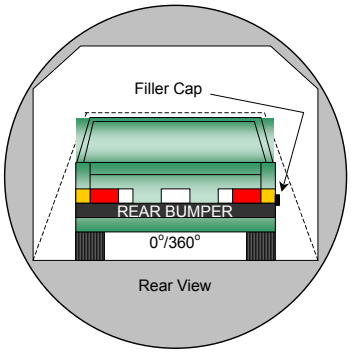
90° to 180°



180° to 270°



270° to 360°



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

Test Phase	Rotation Time (sec.)	Hold Time (sec.)	Spillage (grams)
0° to 90°	111	300	0.0
90° to 180°	112	300	0.0
180° to 270°	107	300	0.0
270° to 360°	111	300	0.0

APPENDIX A

CRASH TEST DATA

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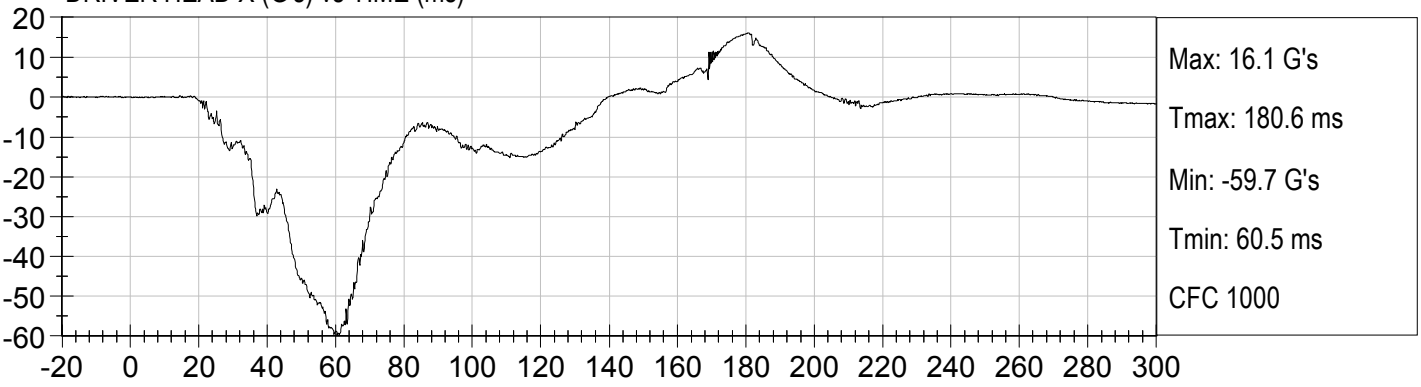
Figure No. 74.	Instrument Panel X Velocity vs. Time	A-21
Figure No. 75.	Trunk Z Acceleration vs. Time	A-21
Figure No. 76.	Trunk Z Velocity vs. Time	A-21

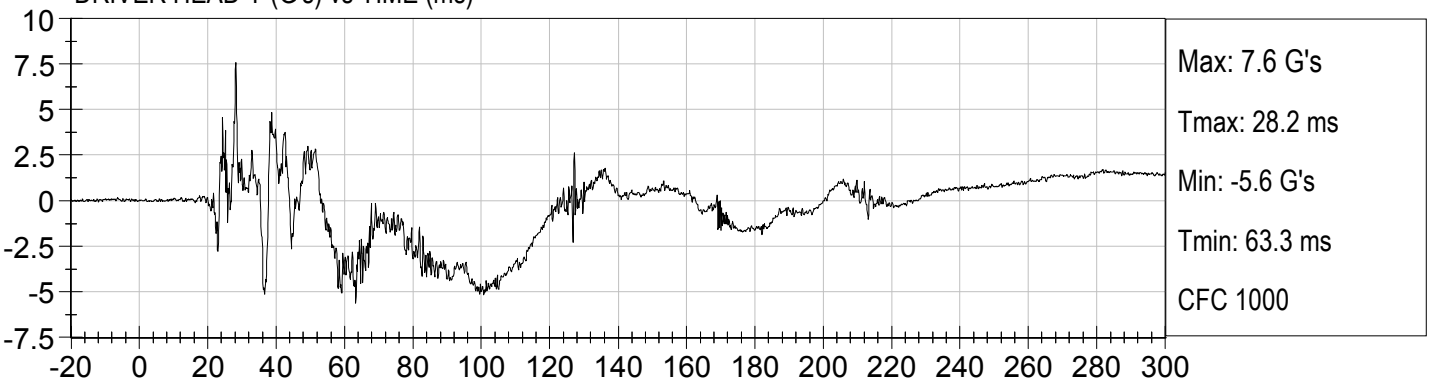
35MPH FRONTAL BELTED 5ths
2013 NISSAN FRONTIER (C20135202)

Test Date: 05/21/2013
Speed: 34.5 mph (55.5 km/h)

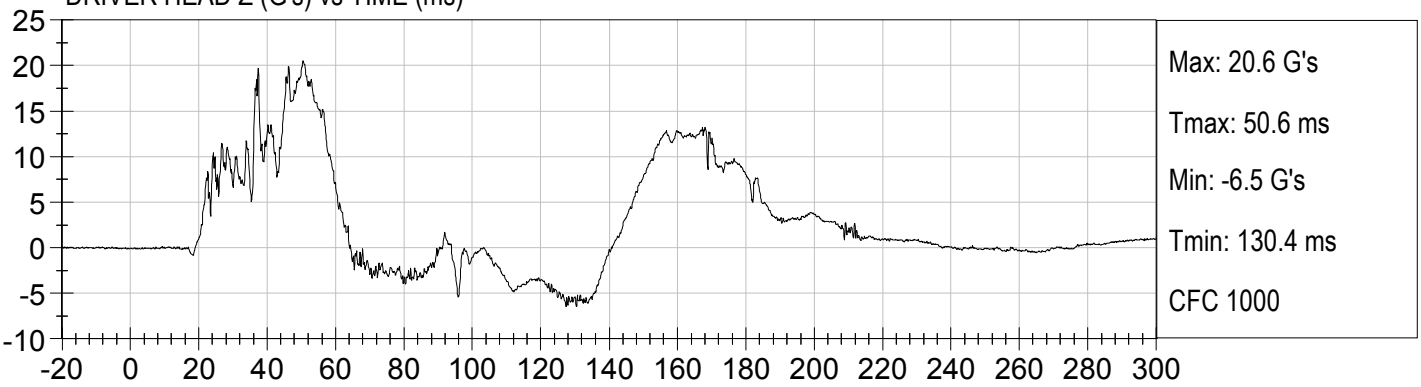
DRIVER HEAD X (G's) vs TIME (ms)



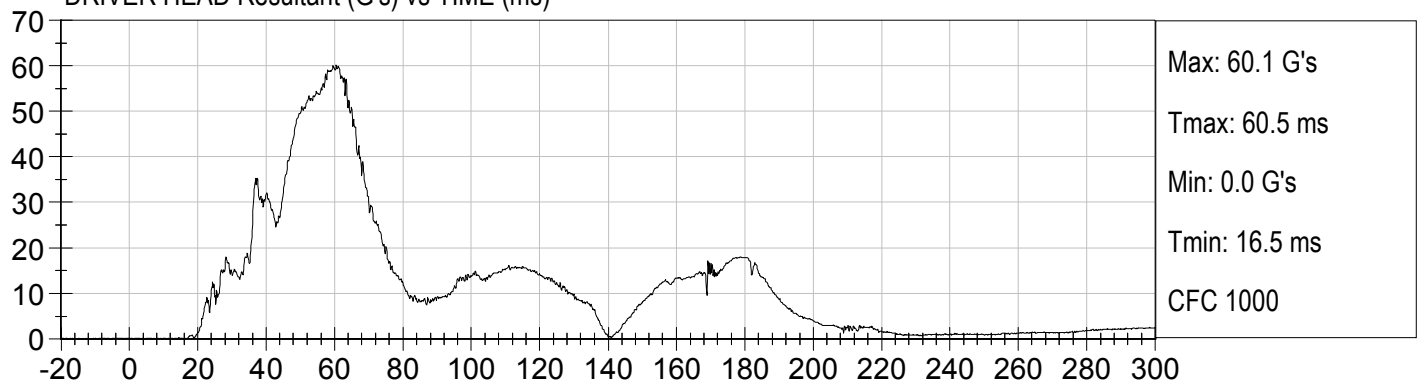
DRIVER HEAD Y (G's) vs TIME (ms)



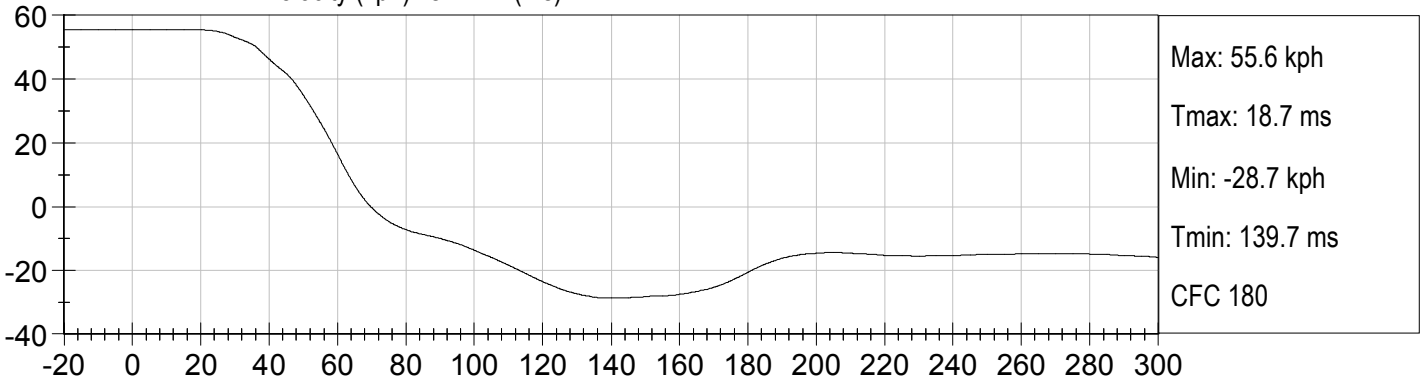
DRIVER HEAD Z (G's) vs TIME (ms)



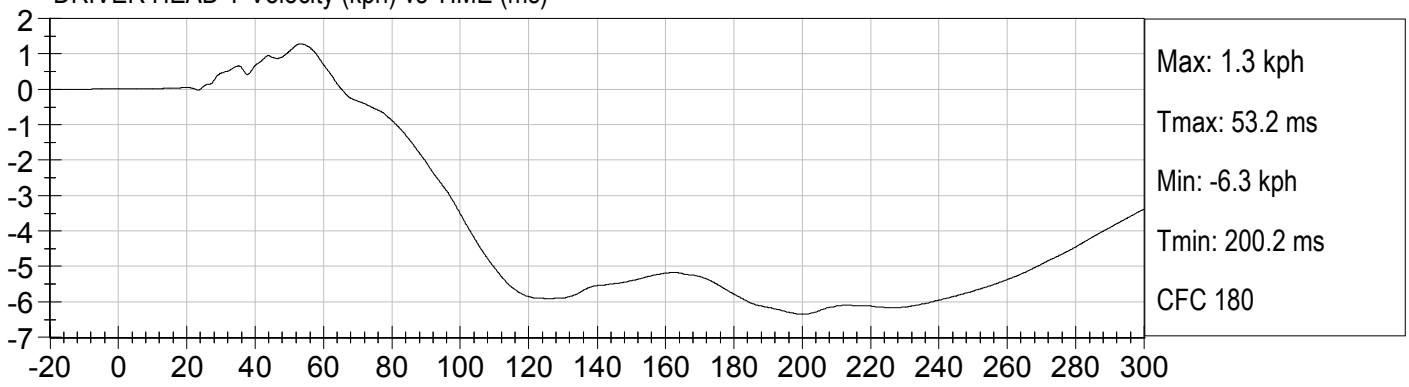
DRIVER HEAD Resultant (G's) vs TIME (ms)



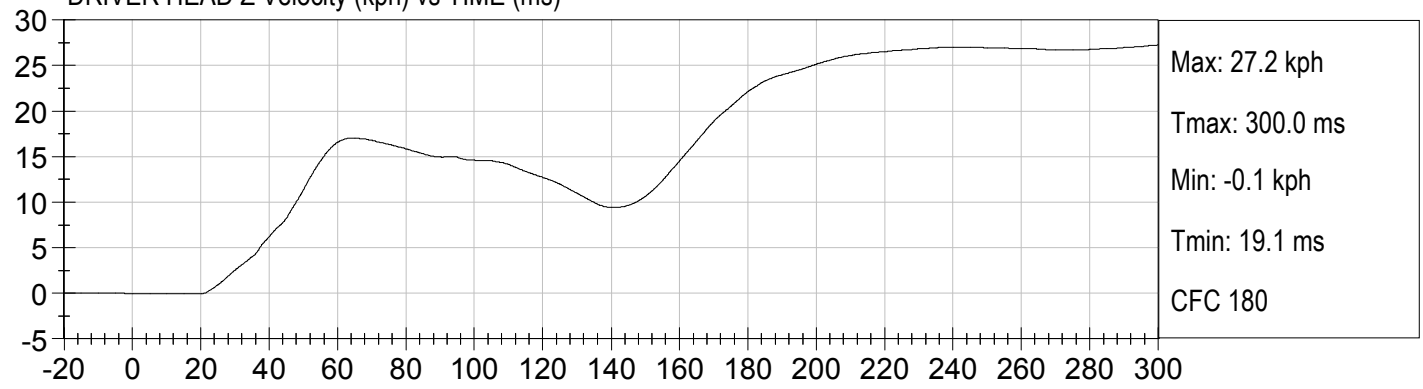
DRIVER HEAD X Velocity (kph) vs TIME (ms)



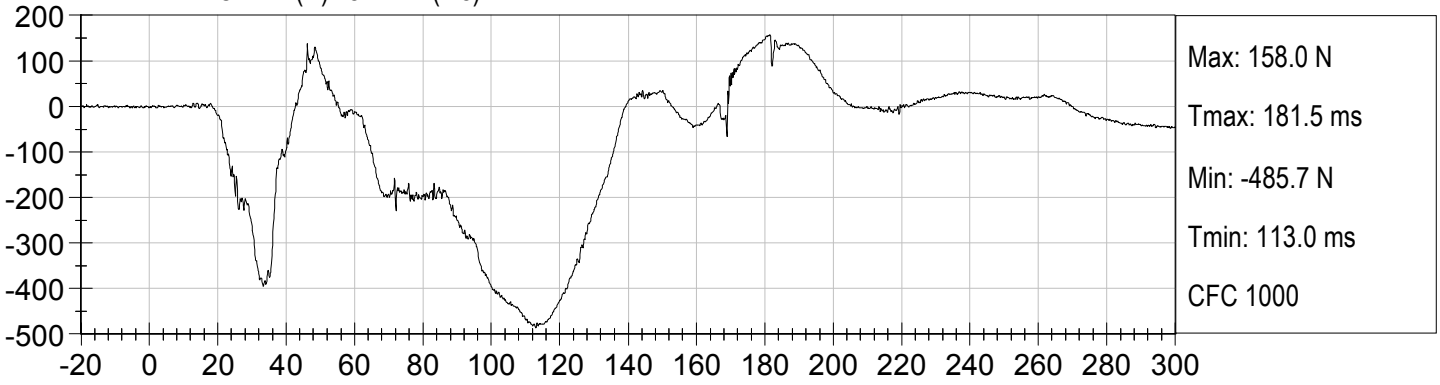
DRIVER HEAD Y Velocity (kph) vs TIME (ms)



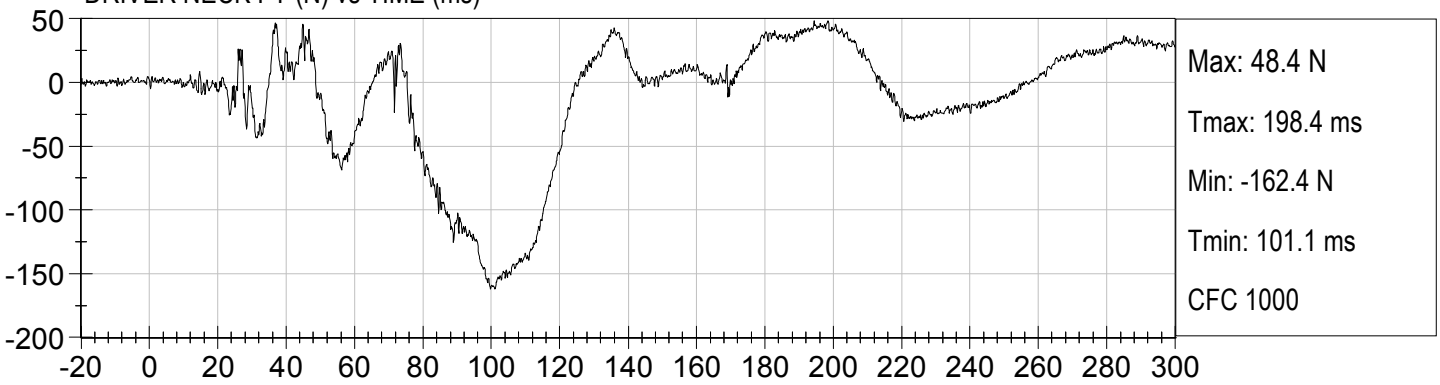
DRIVER HEAD Z Velocity (kph) vs TIME (ms)



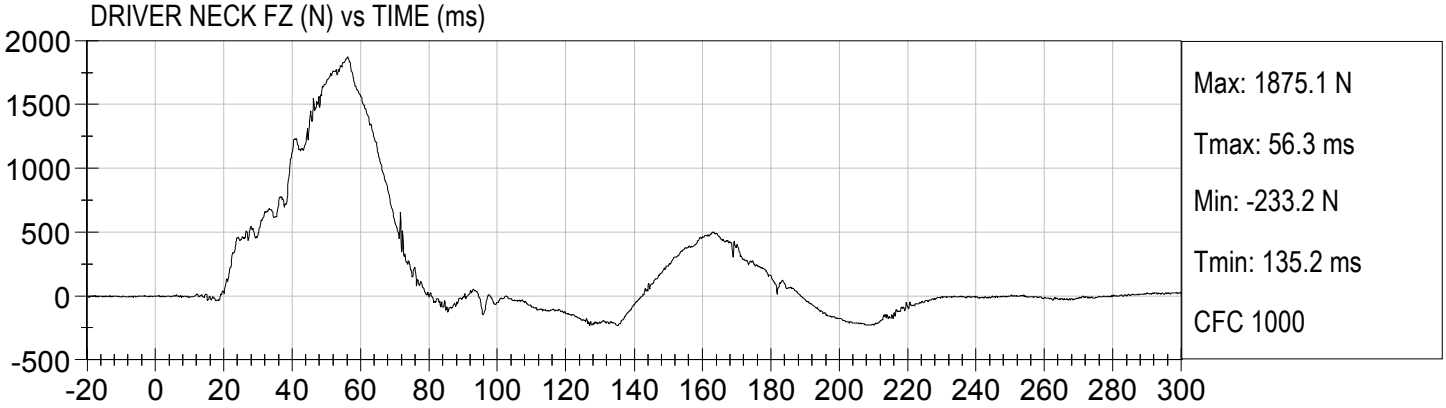
DRIVER NECK FX (N) vs TIME (ms)



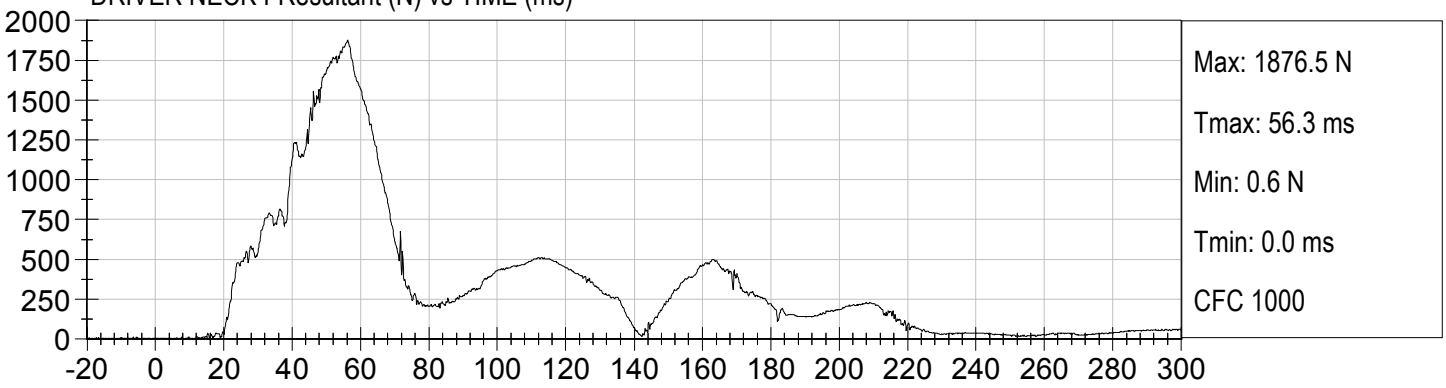
DRIVER NECK FY (N) vs TIME (ms)



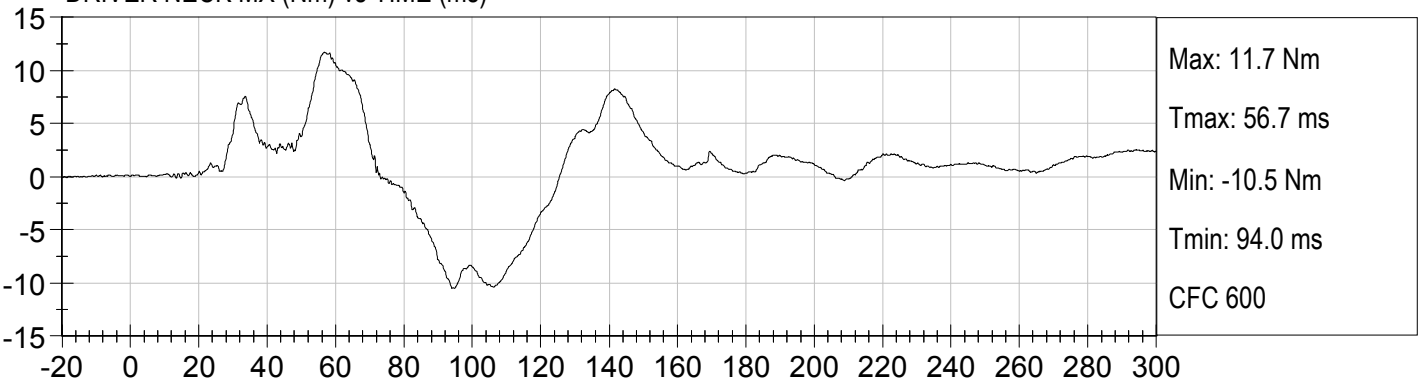
DRIVER NECK FZ (N) vs TIME (ms)



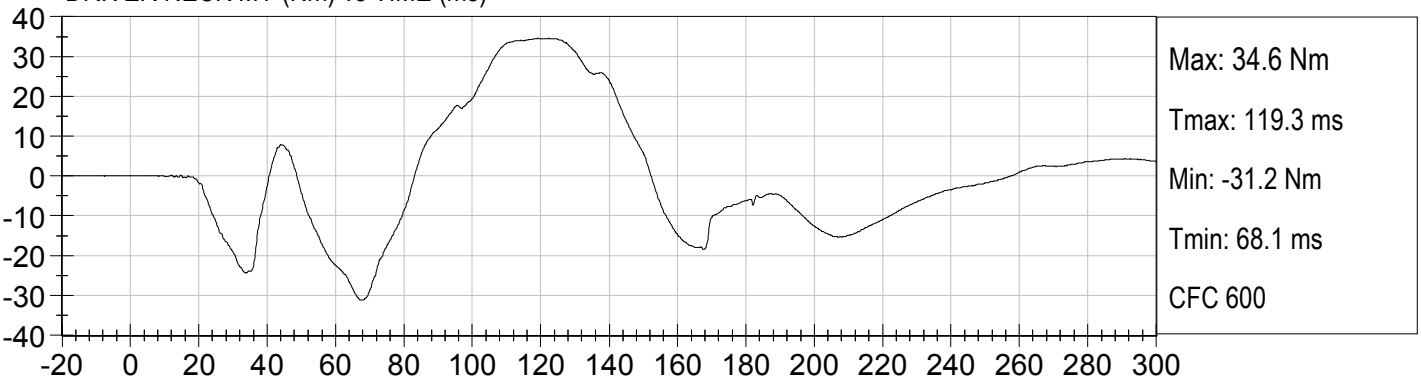
DRIVER NECK FResultant (N) vs TIME (ms)



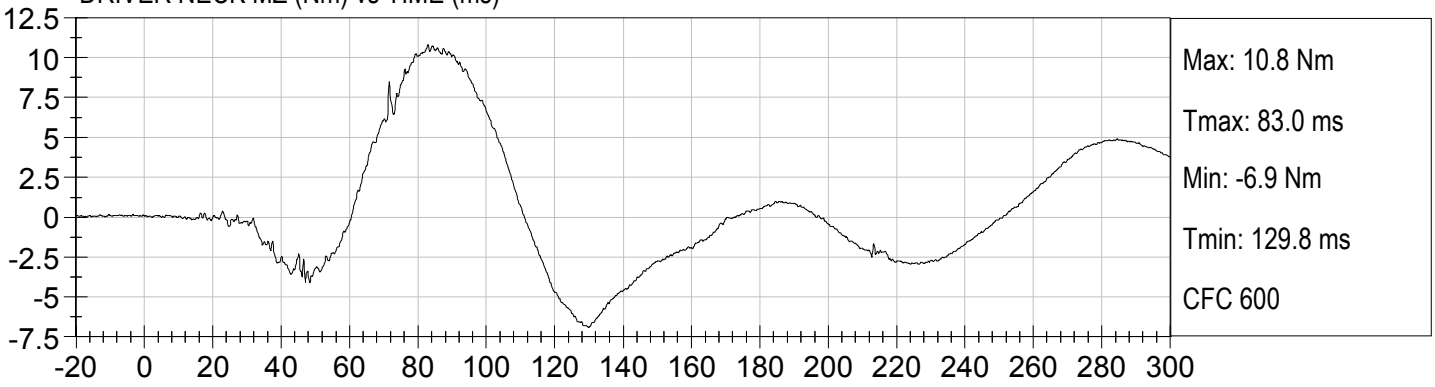
DRIVER NECK MX (Nm) vs TIME (ms)



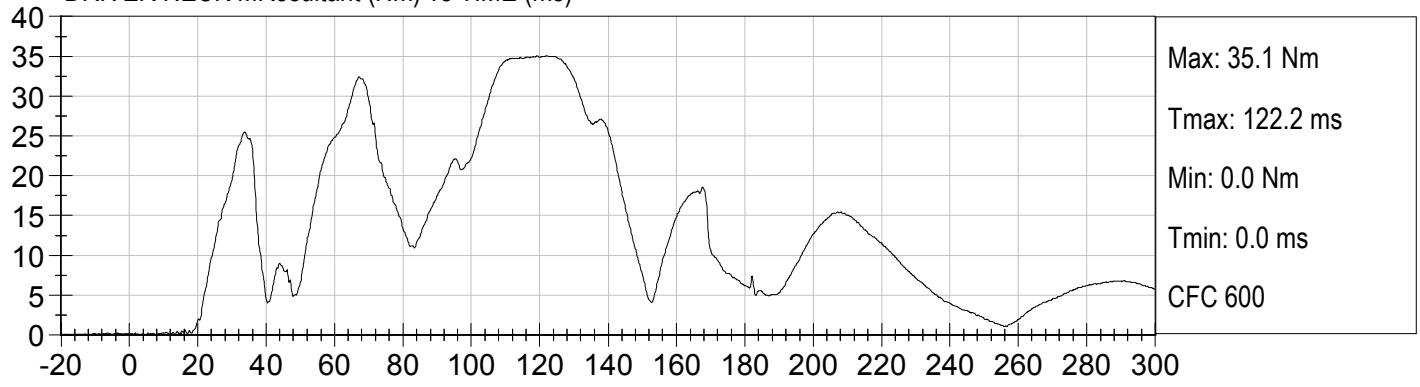
DRIVER NECK MY (Nm) vs TIME (ms)



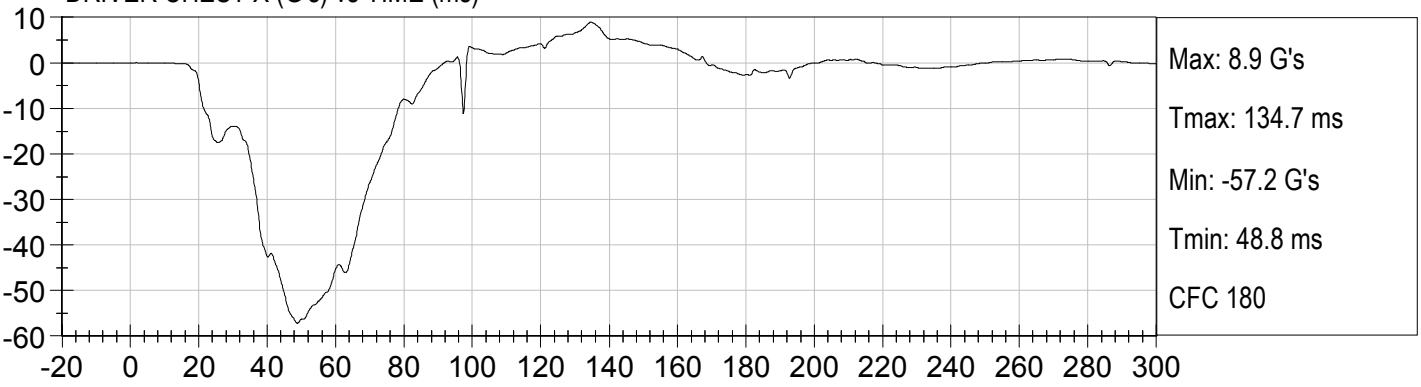
DRIVER NECK MZ (Nm) vs TIME (ms)



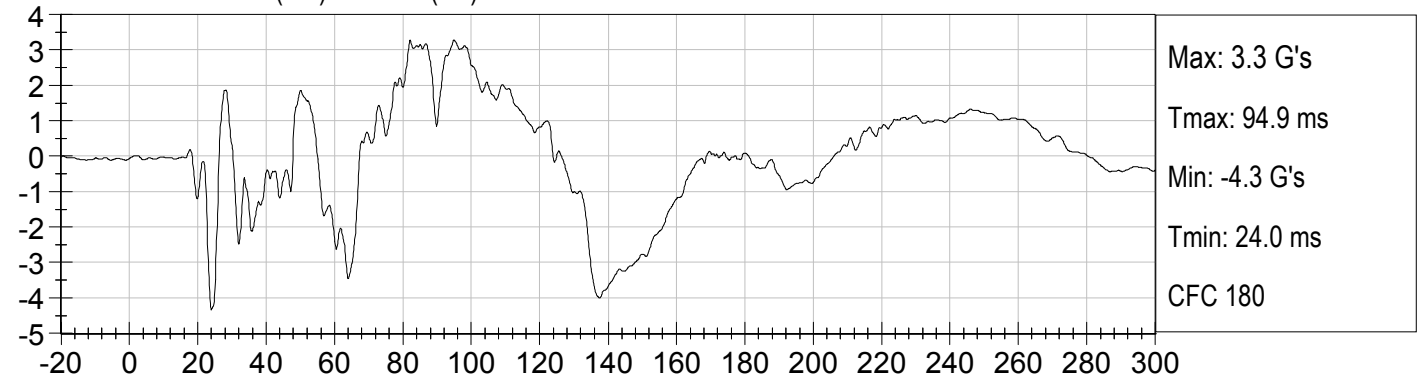
DRIVER NECK MResultant (Nm) vs TIME (ms)



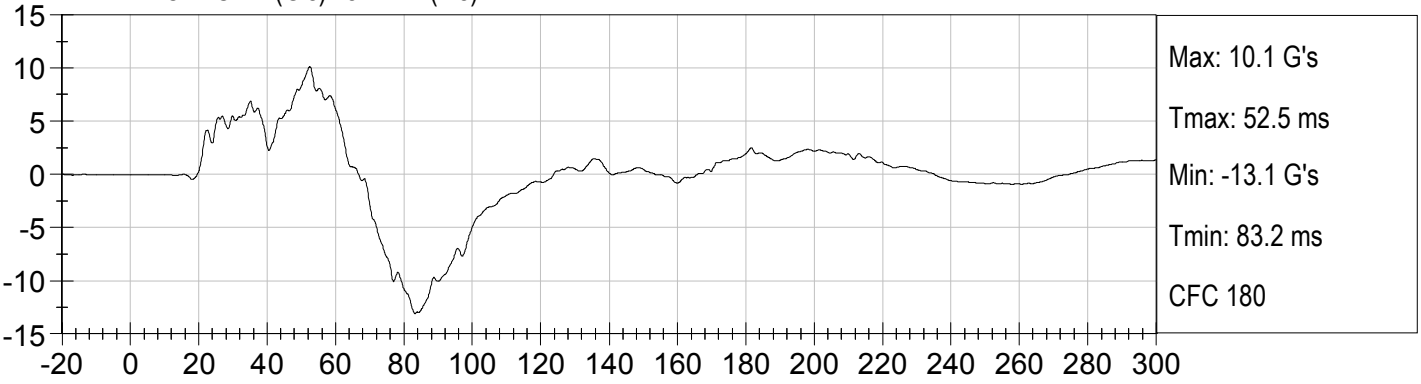
DRIVER CHEST X (G's) vs TIME (ms)



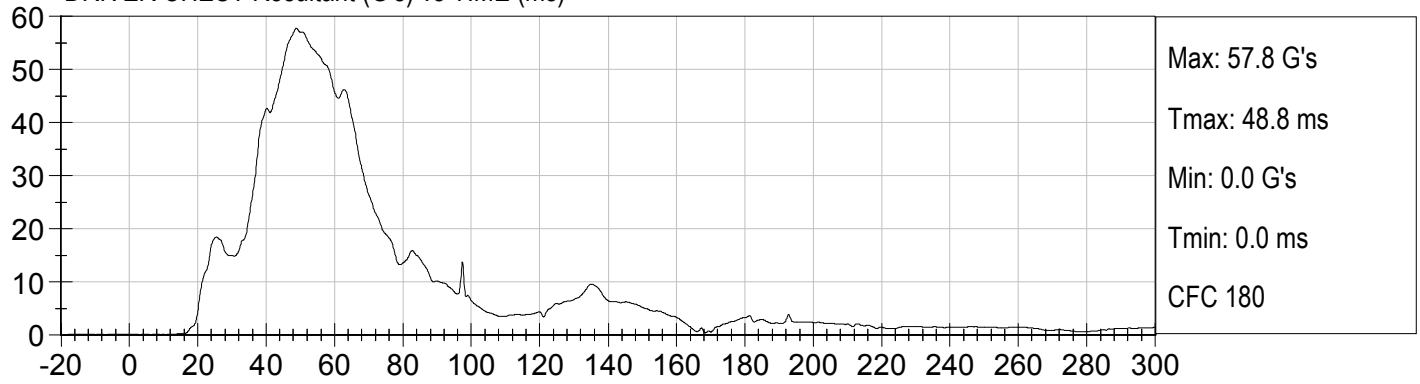
DRIVER CHEST Y (G's) vs TIME (ms)



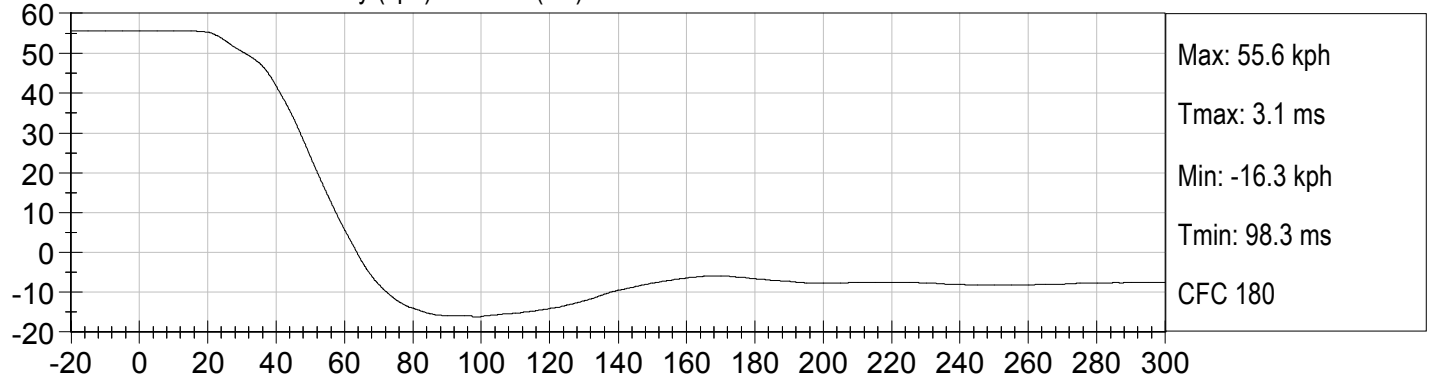
DRIVER CHEST Z (G's) vs TIME (ms)



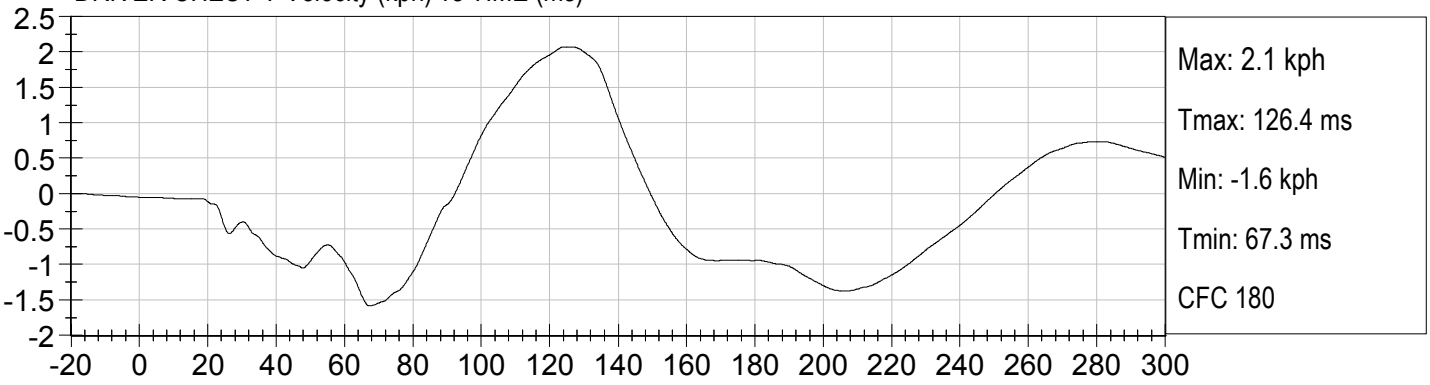
DRIVER CHEST Resultant (G's) vs TIME (ms)



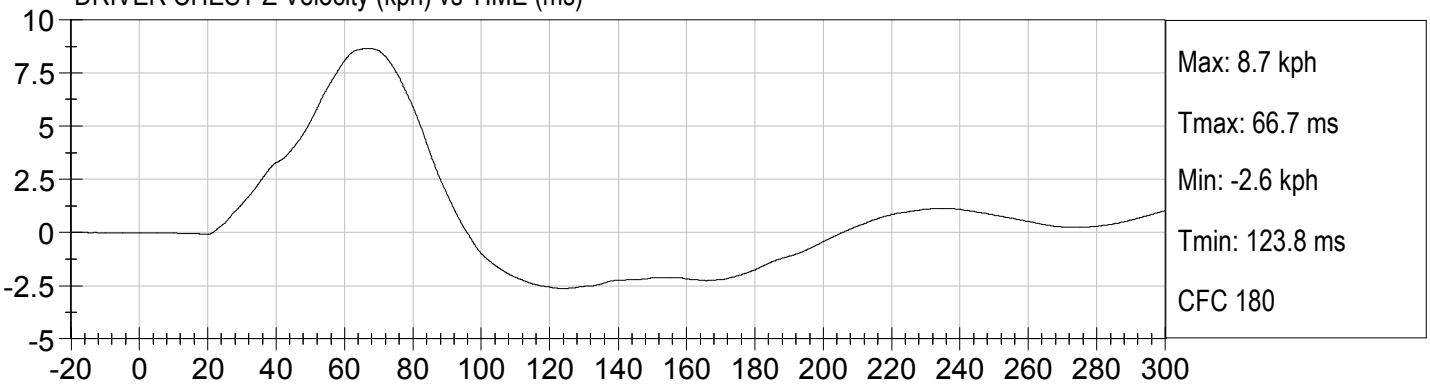
DRIVER CHEST X Velocity (kph) vs TIME (ms)



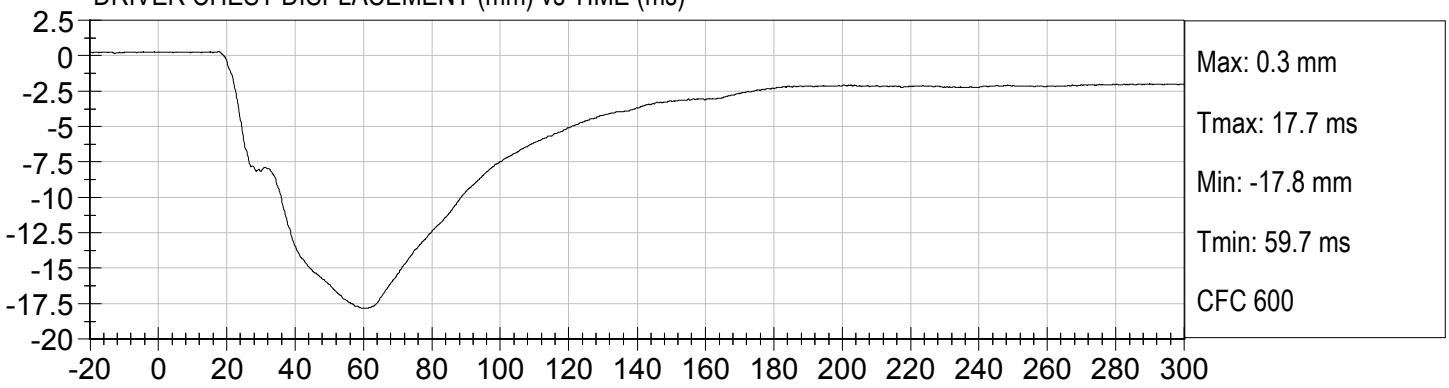
DRIVER CHEST Y Velocity (kph) vs TIME (ms)



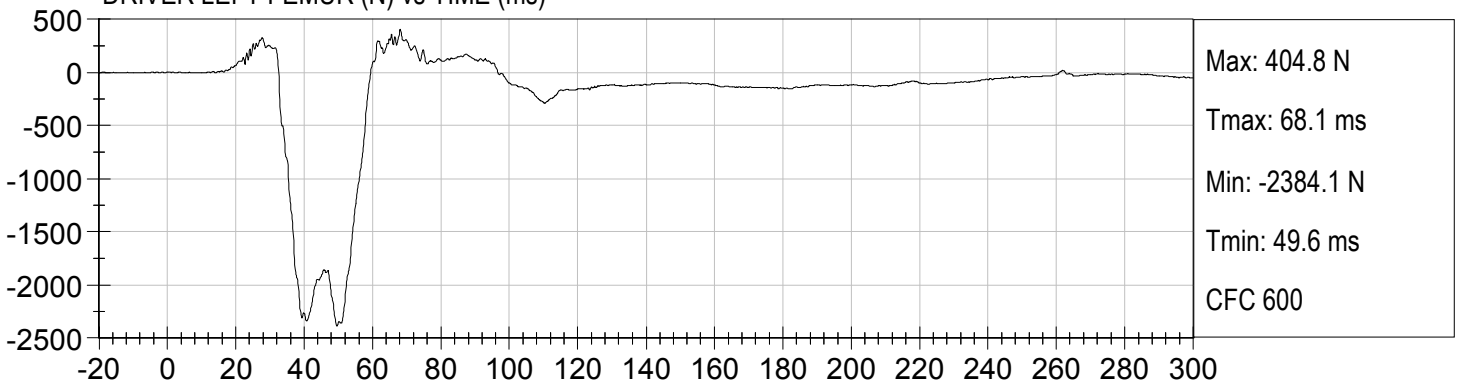
DRIVER CHEST Z Velocity (kph) vs TIME (ms)



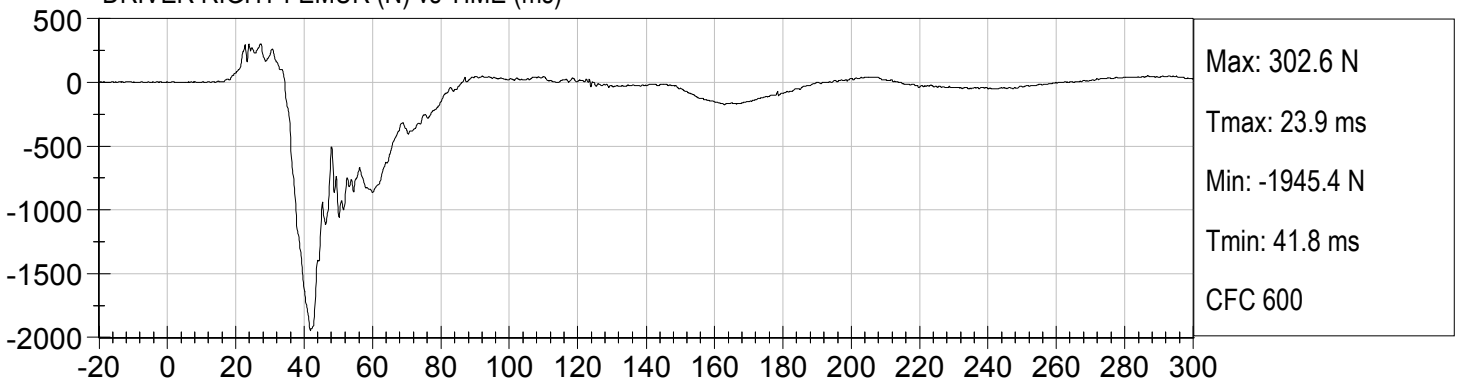
DRIVER CHEST DISPLACEMENT (mm) vs TIME (ms)



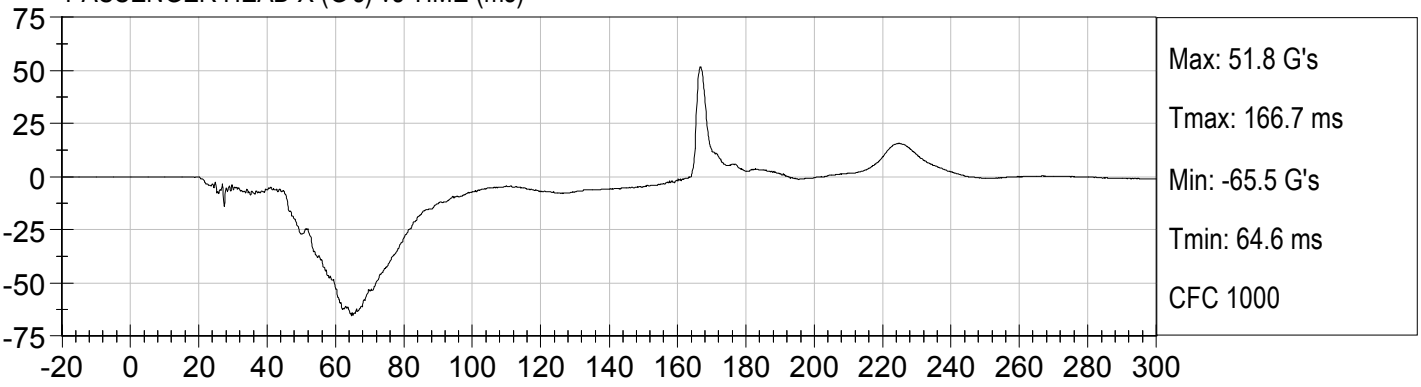
DRIVER LEFT FEMUR (N) vs TIME (ms)



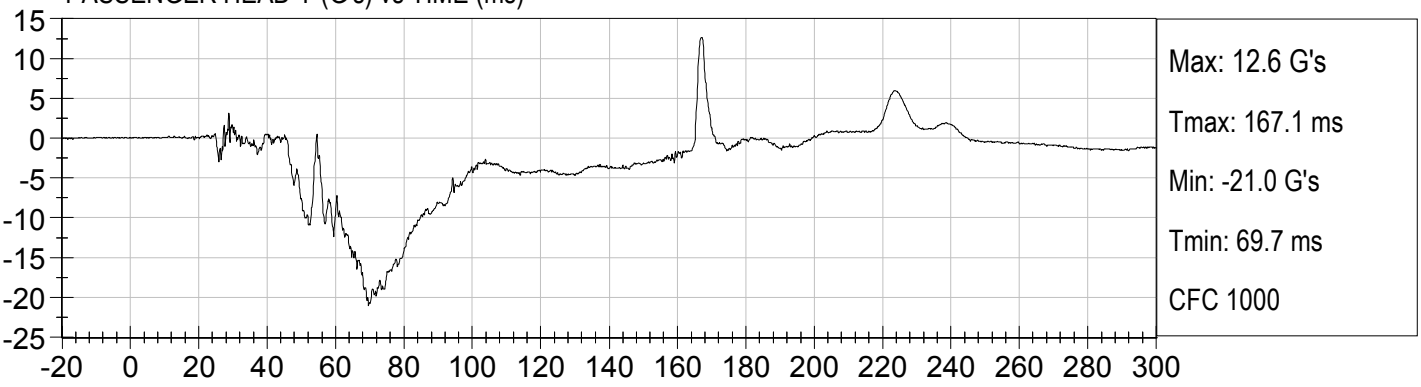
DRIVER RIGHT FEMUR (N) vs TIME (ms)



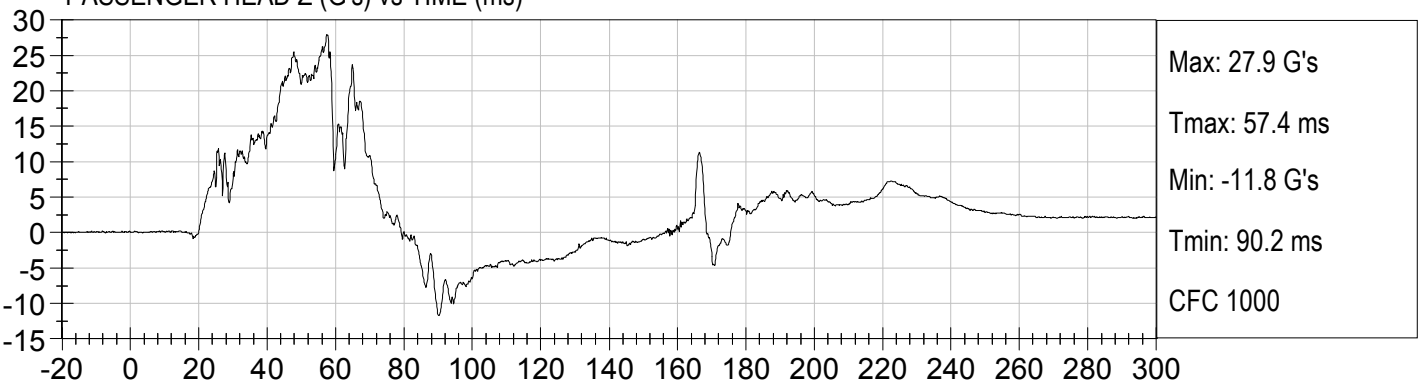
PASSENGER HEAD X (G's) vs TIME (ms)



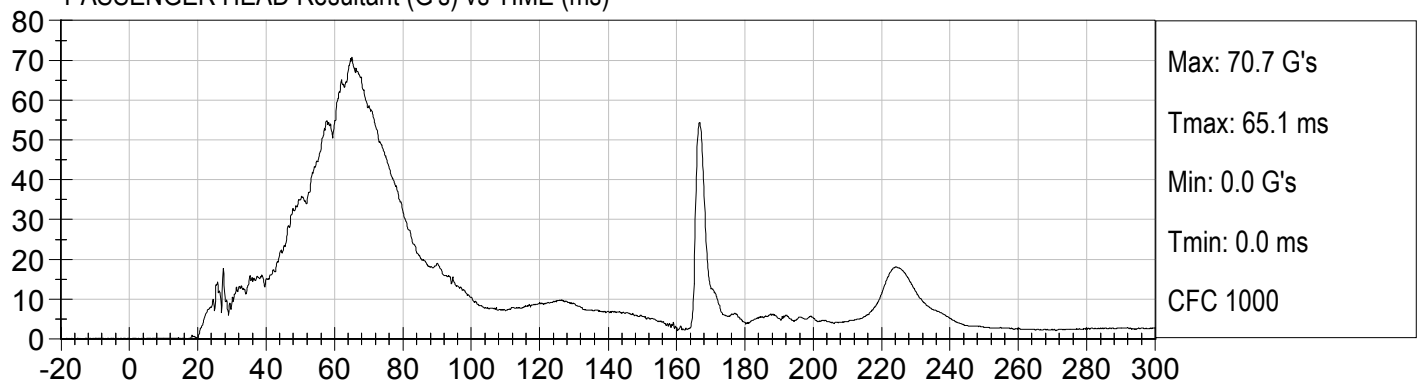
PASSENGER HEAD Y (G's) vs TIME (ms)



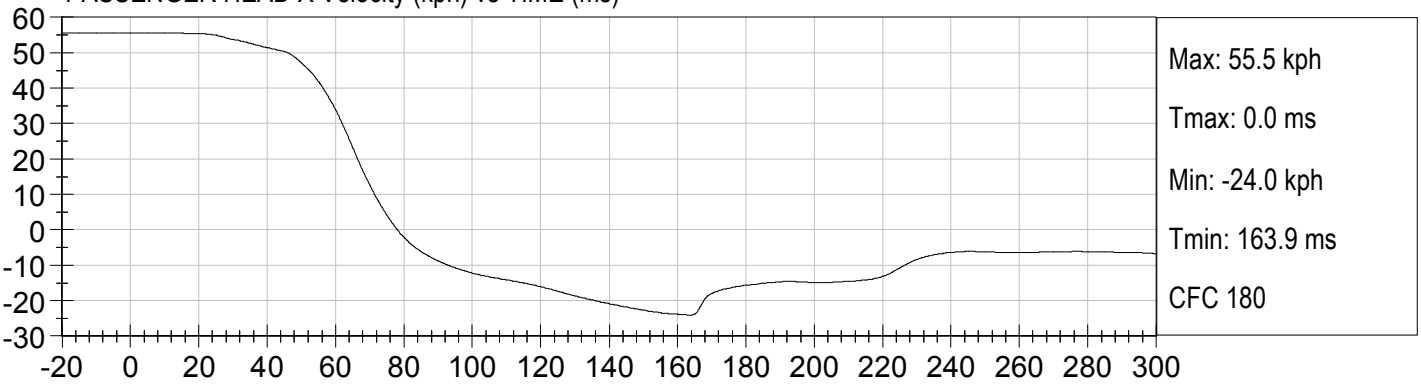
PASSENGER HEAD Z (G's) vs TIME (ms)



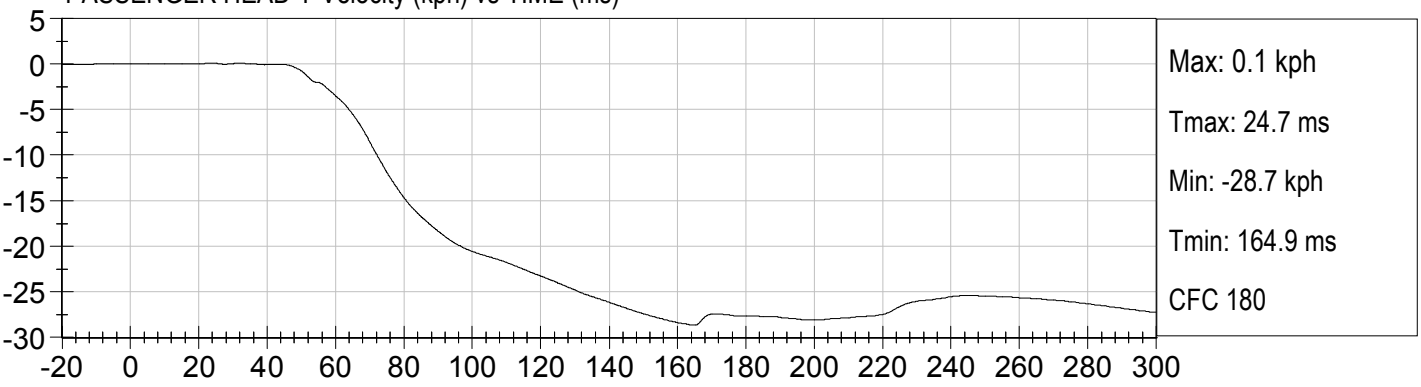
PASSENGER HEAD Resultant (G's) vs TIME (ms)



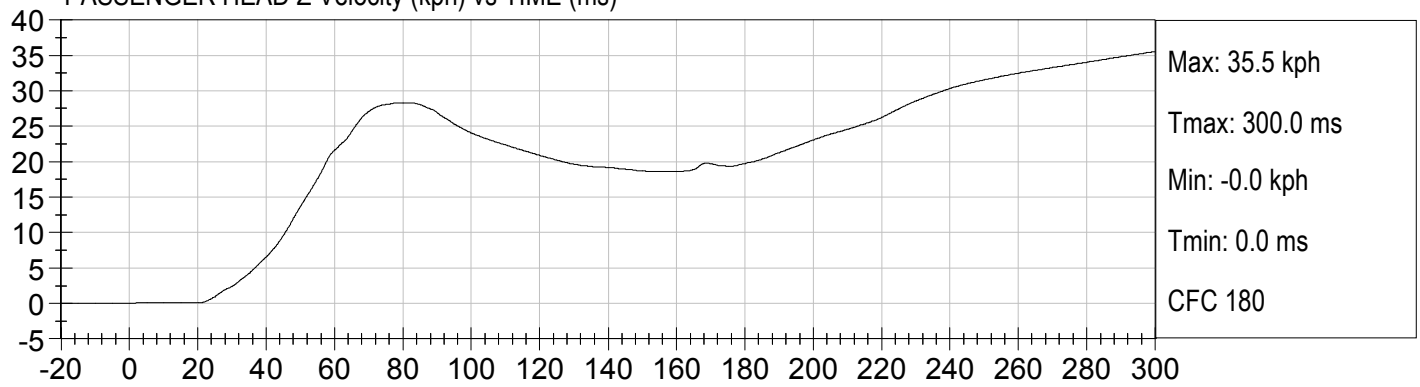
PASSENGER HEAD X Velocity (kph) vs TIME (ms)



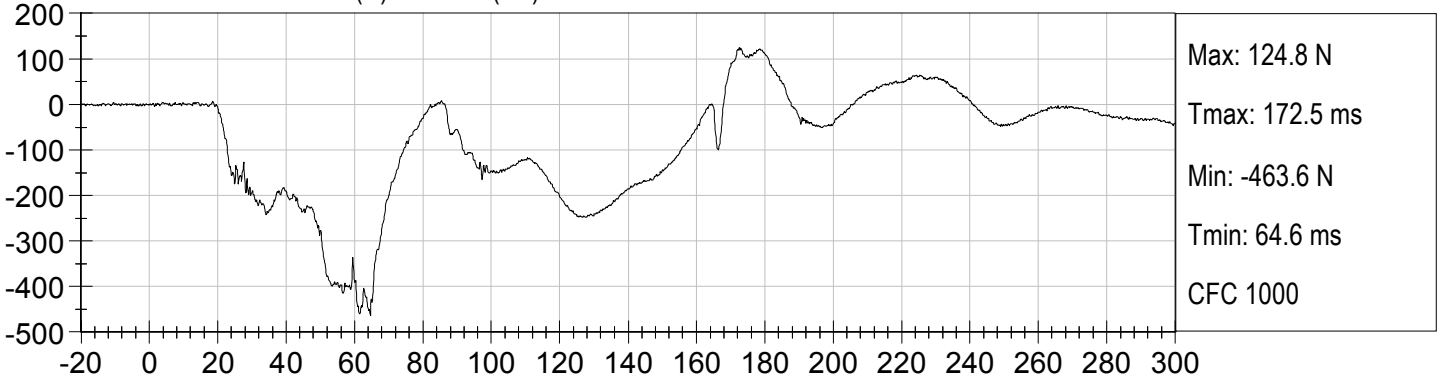
PASSENGER HEAD Y Velocity (kph) vs TIME (ms)



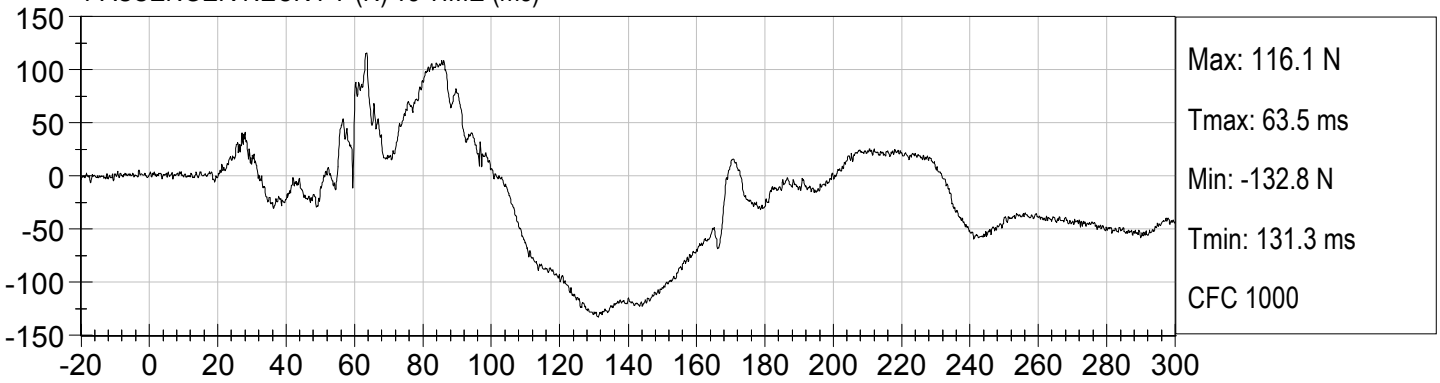
PASSENGER HEAD Z Velocity (kph) vs TIME (ms)



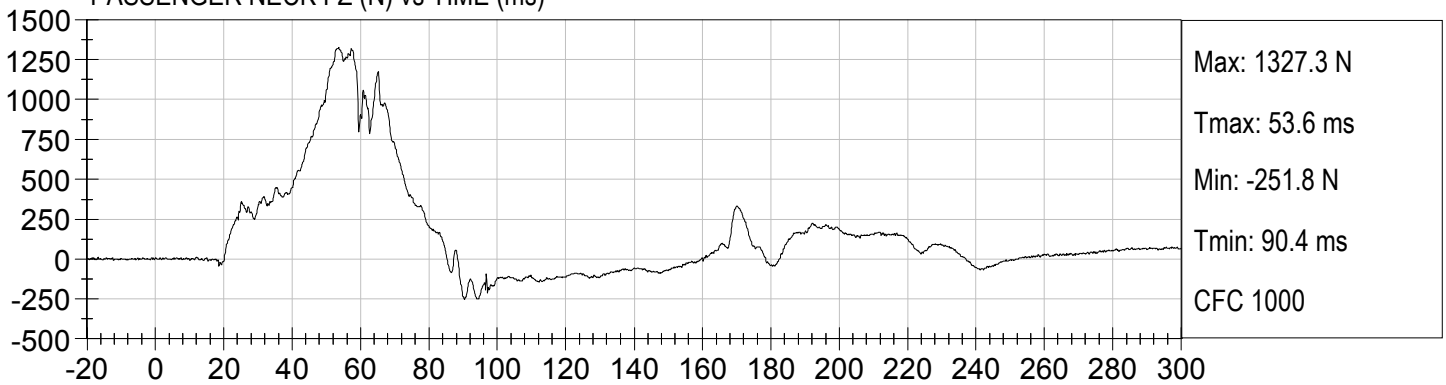
PASSENGER NECK FX (N) vs TIME (ms)



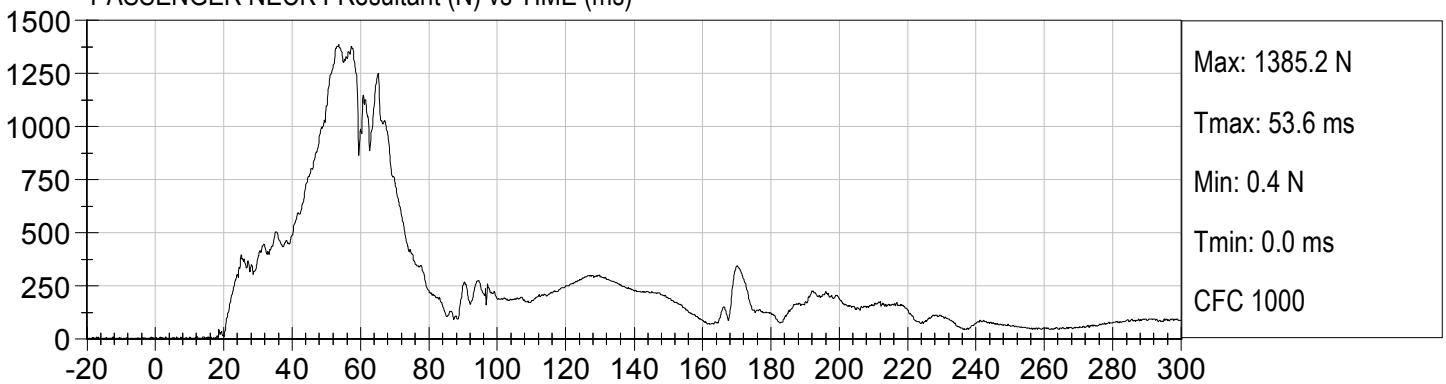
PASSENGER NECK FY (N) vs TIME (ms)



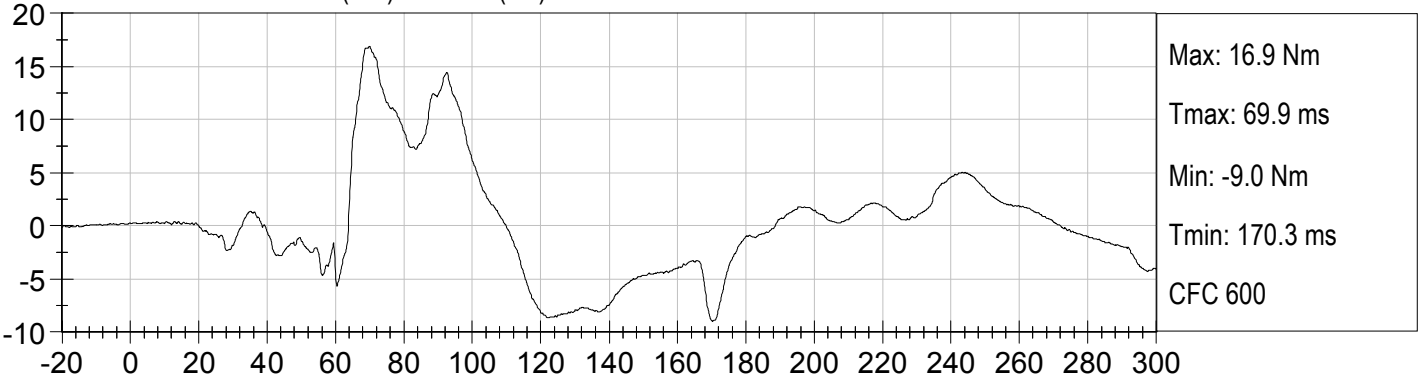
PASSENGER NECK FZ (N) vs TIME (ms)



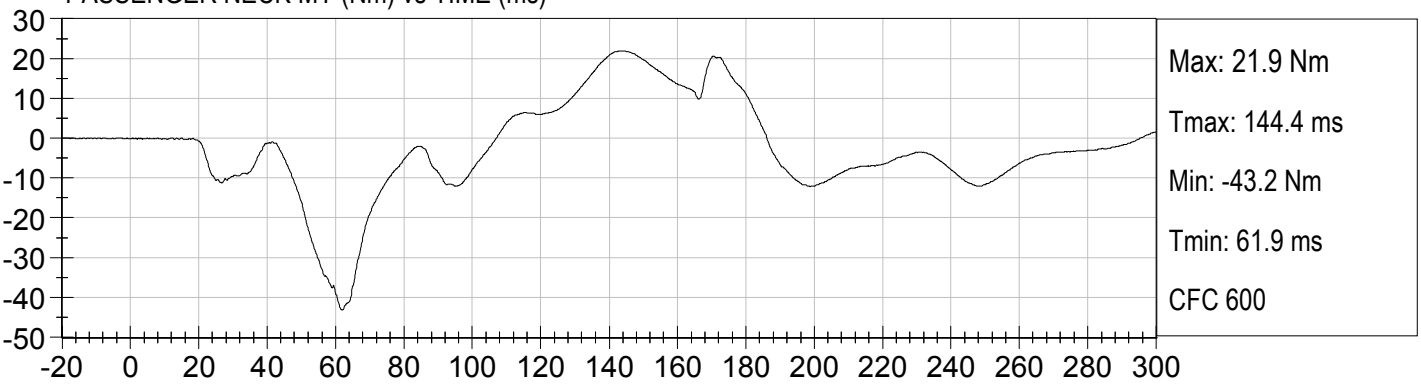
PASSENGER NECK FResultant (N) vs TIME (ms)



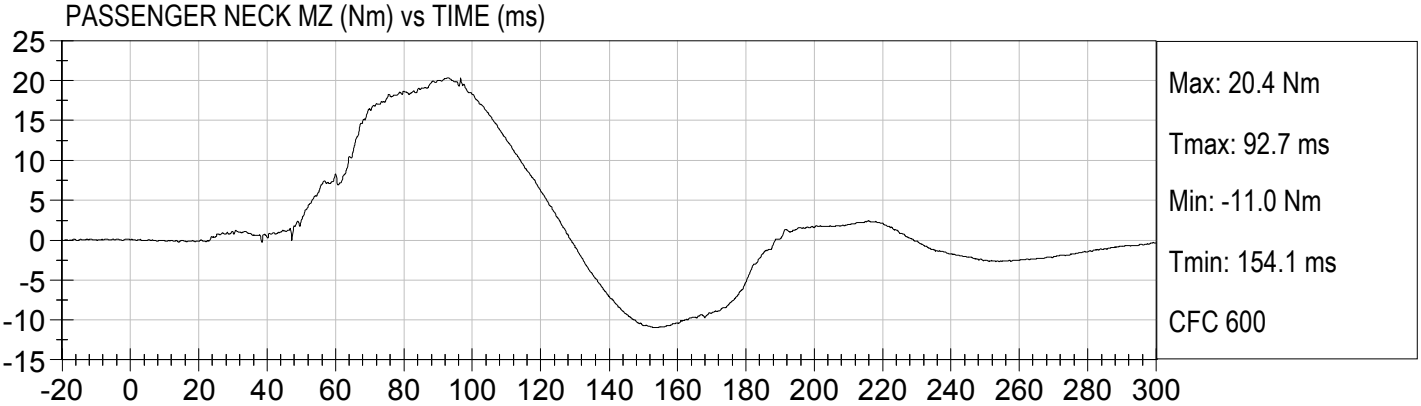
PASSENGER NECK MX (Nm) vs TIME (ms)



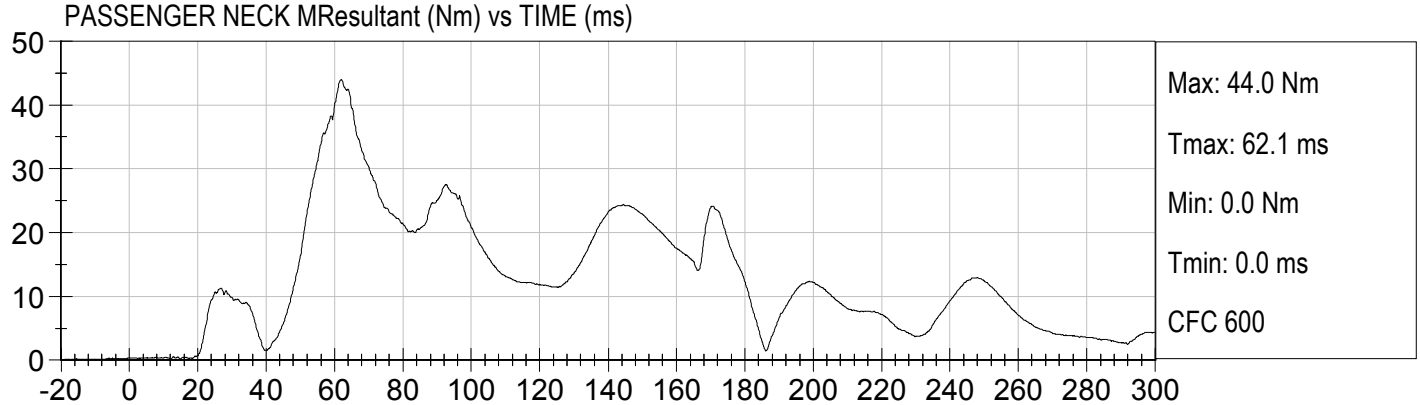
PASSENGER NECK MY (Nm) vs TIME (ms)



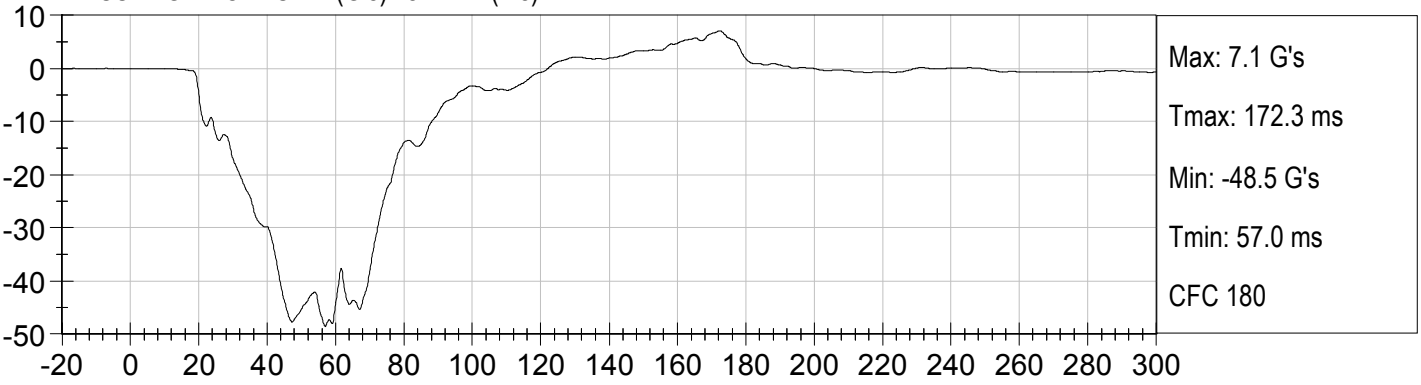
PASSENGER NECK MZ (Nm) vs TIME (ms)



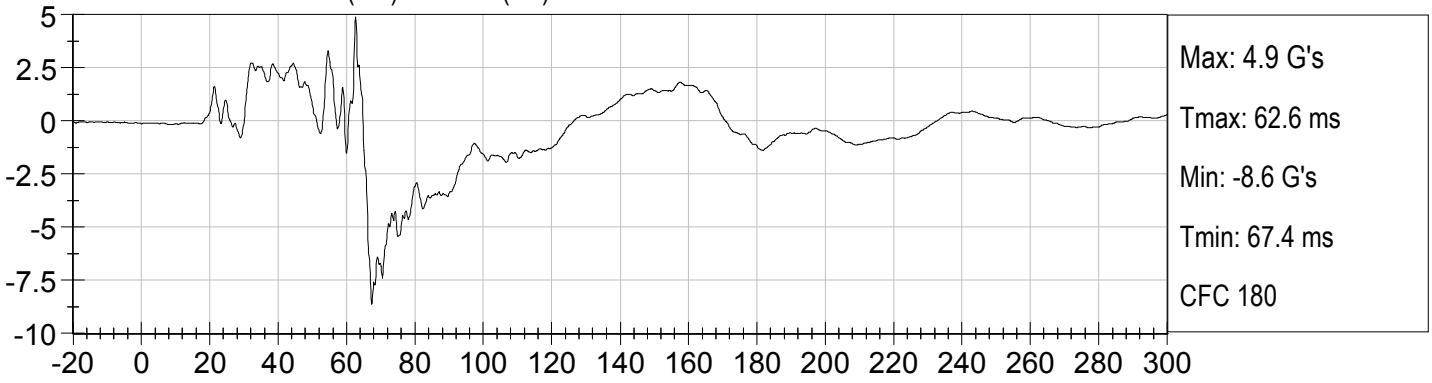
PASSENGER NECK MResultant (Nm) vs TIME (ms)



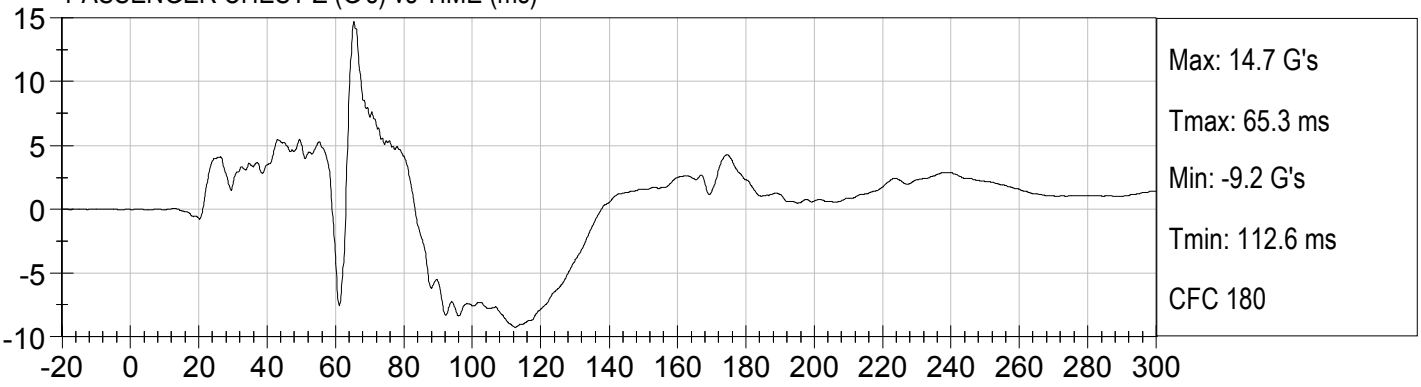
PASSENGER CHEST X (G's) vs TIME (ms)



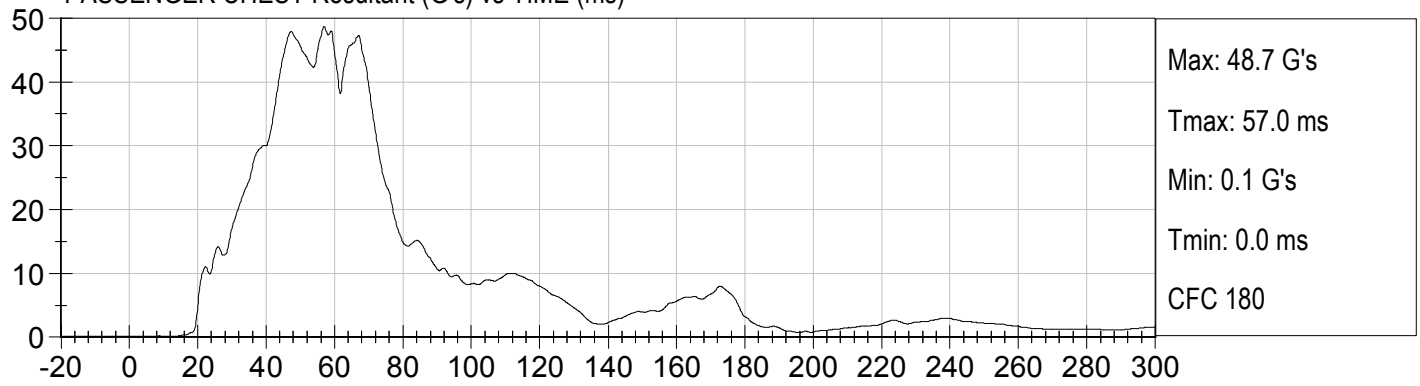
PASSENGER CHEST Y (G's) vs TIME (ms)



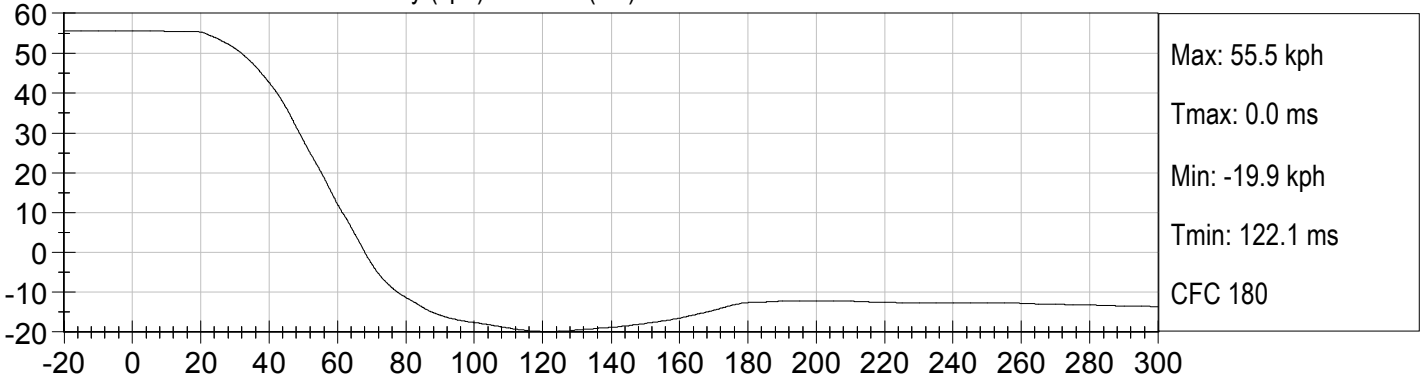
PASSENGER CHEST Z (G's) vs TIME (ms)



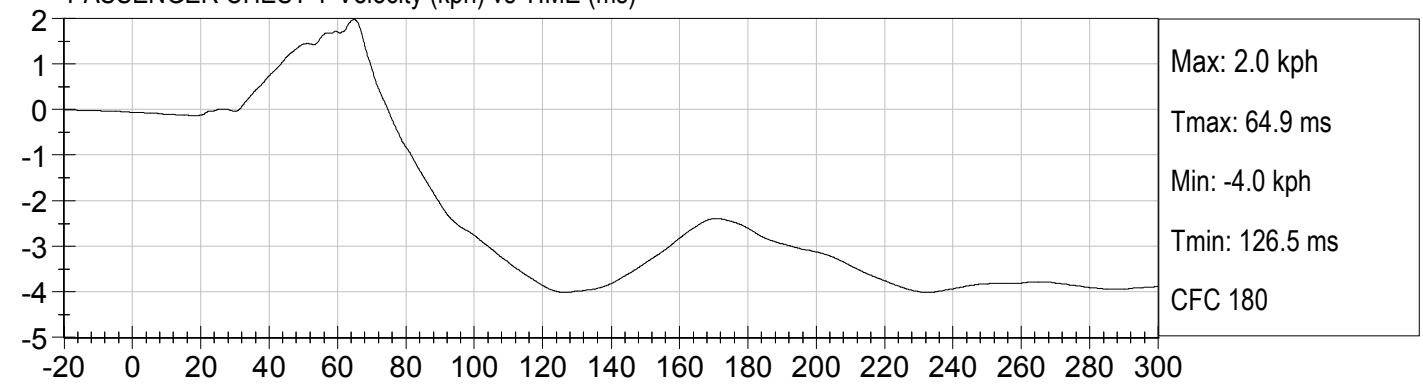
PASSENGER CHEST Resultant (G's) vs TIME (ms)



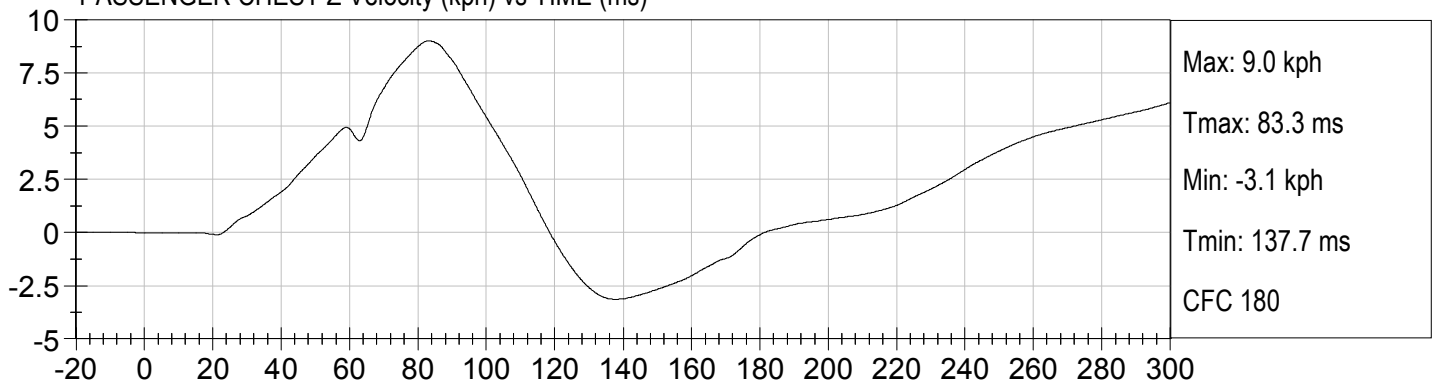
PASSENGER CHEST X Velocity (kph) vs TIME (ms)



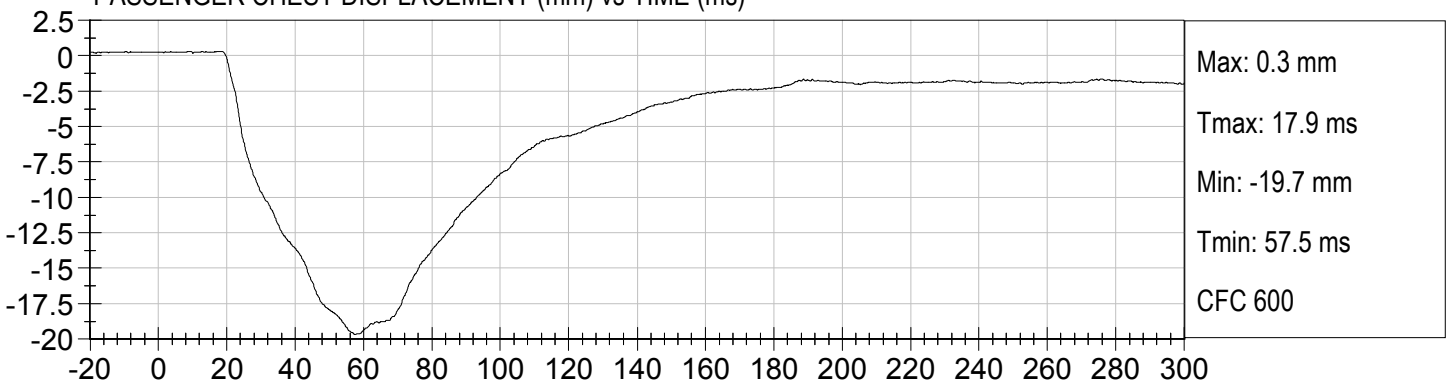
PASSENGER CHEST Y Velocity (kph) vs TIME (ms)



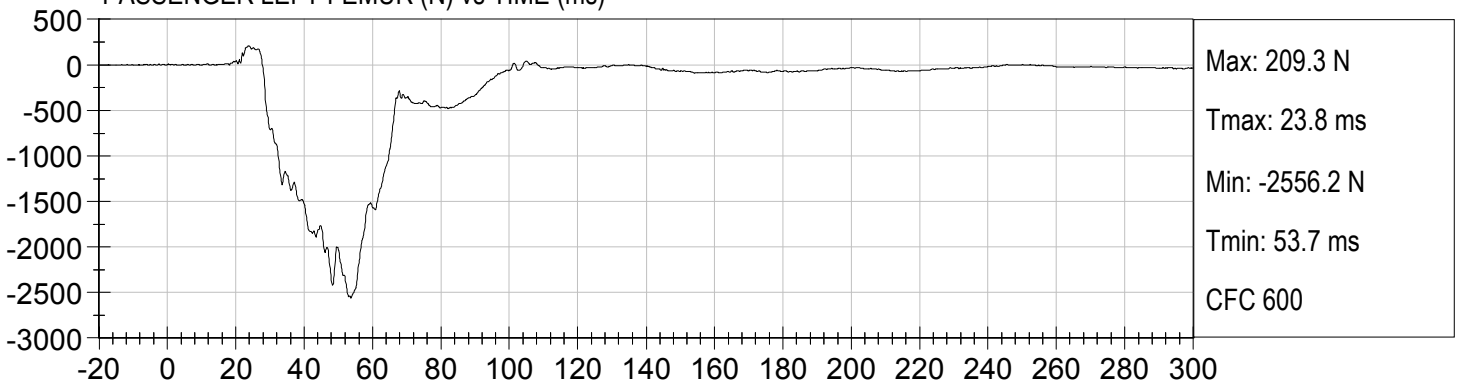
PASSENGER CHEST Z Velocity (kph) vs TIME (ms)



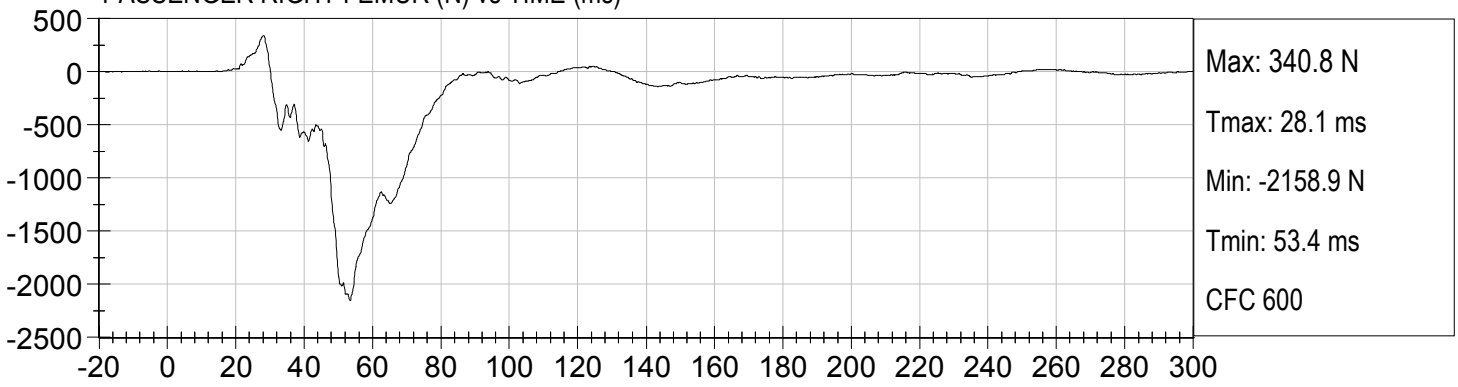
PASSENGER CHEST DISPLACEMENT (mm) vs TIME (ms)



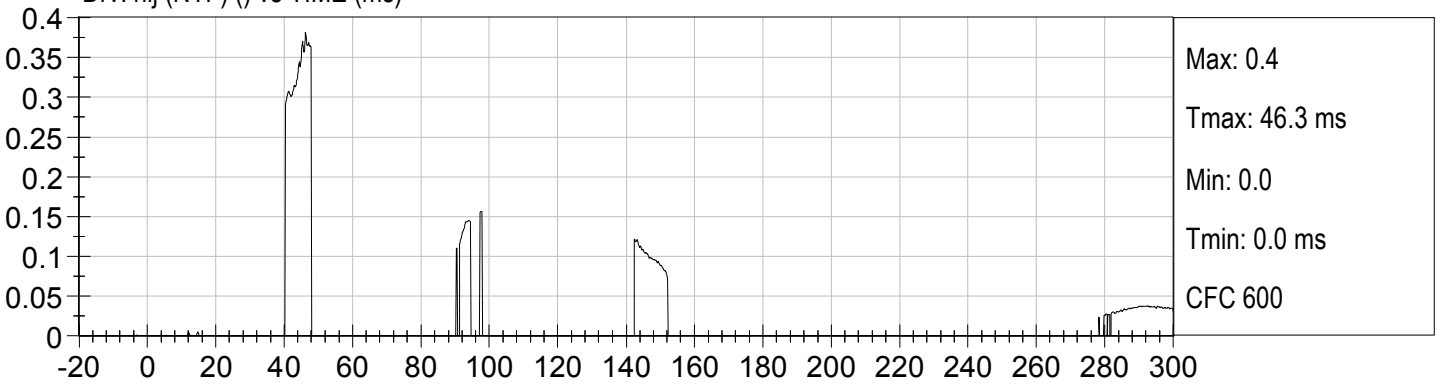
PASSENGER LEFT FEMUR (N) vs TIME (ms)



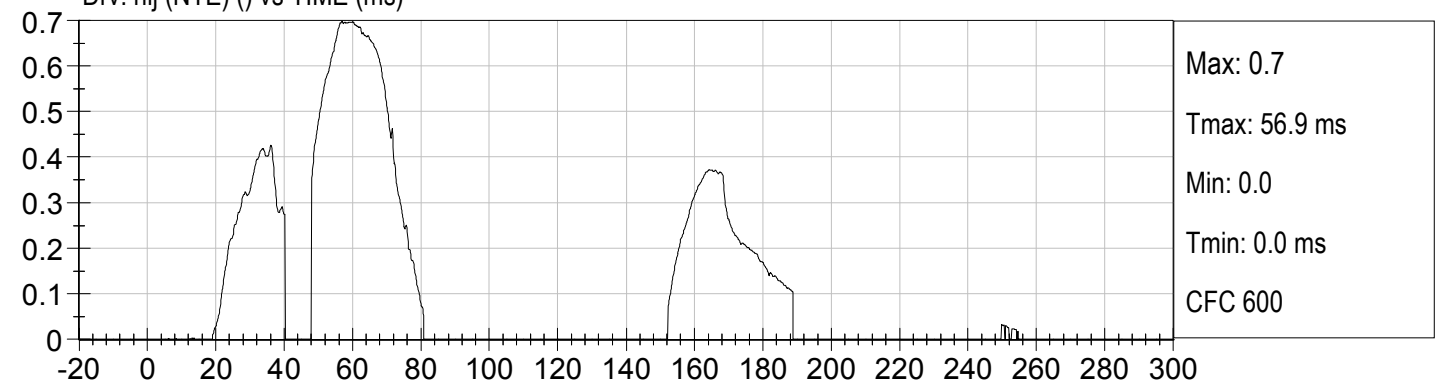
PASSENGER RIGHT FEMUR (N) vs TIME (ms)



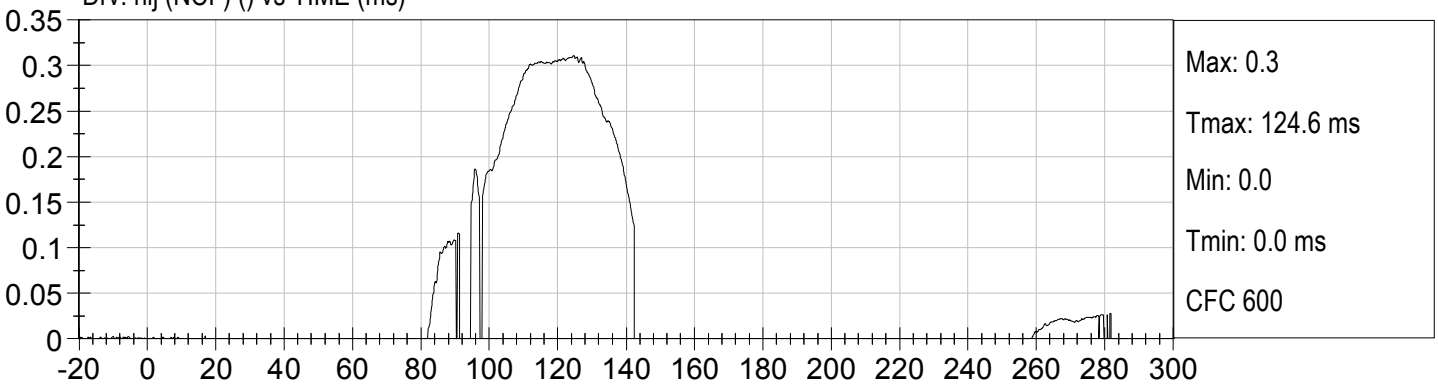
Drv. nij (NTF) () vs TIME (ms)



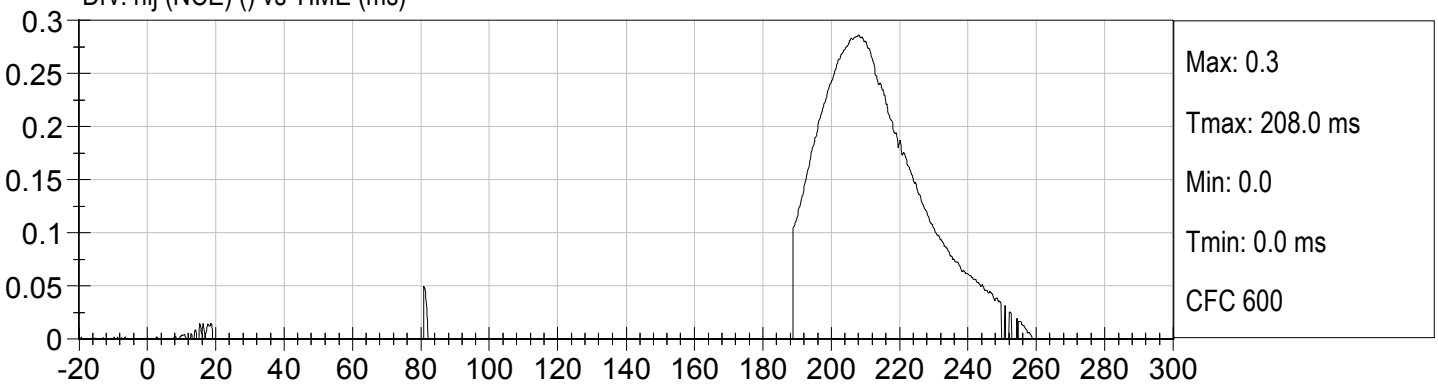
Drv. nij (NTE) () vs TIME (ms)

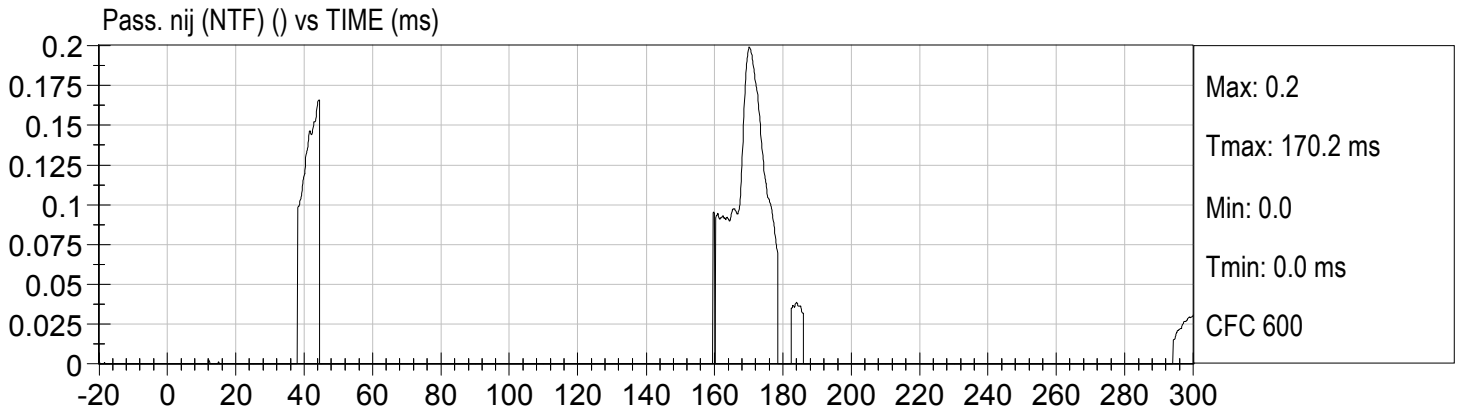


Drv. nij (NCF) () vs TIME (ms)



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




Pass. nij (NTF) () vs TIME (ms)
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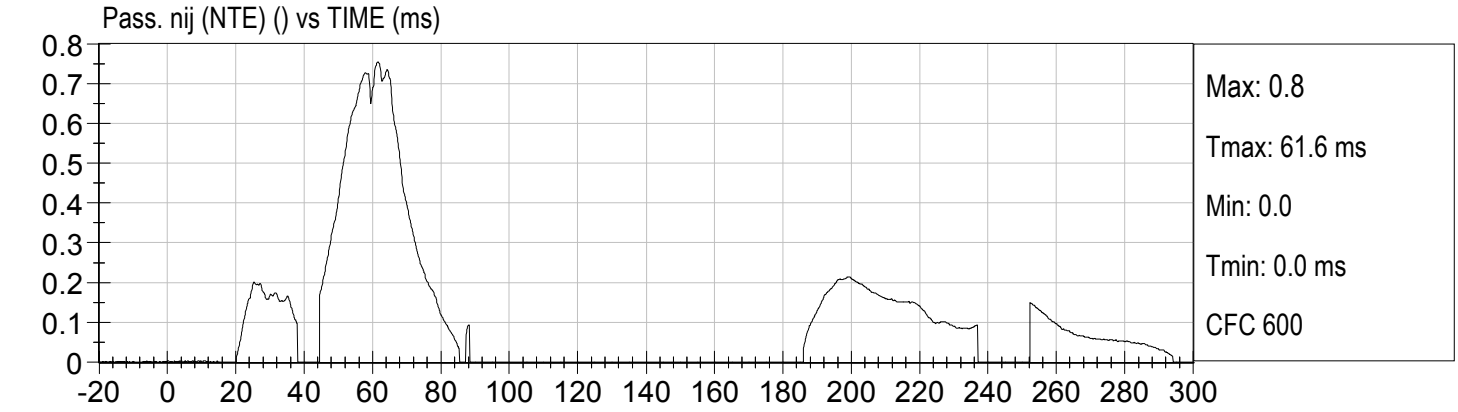
Tmax: 170.2 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600


Pass. nij (NTE) () vs TIME (ms)
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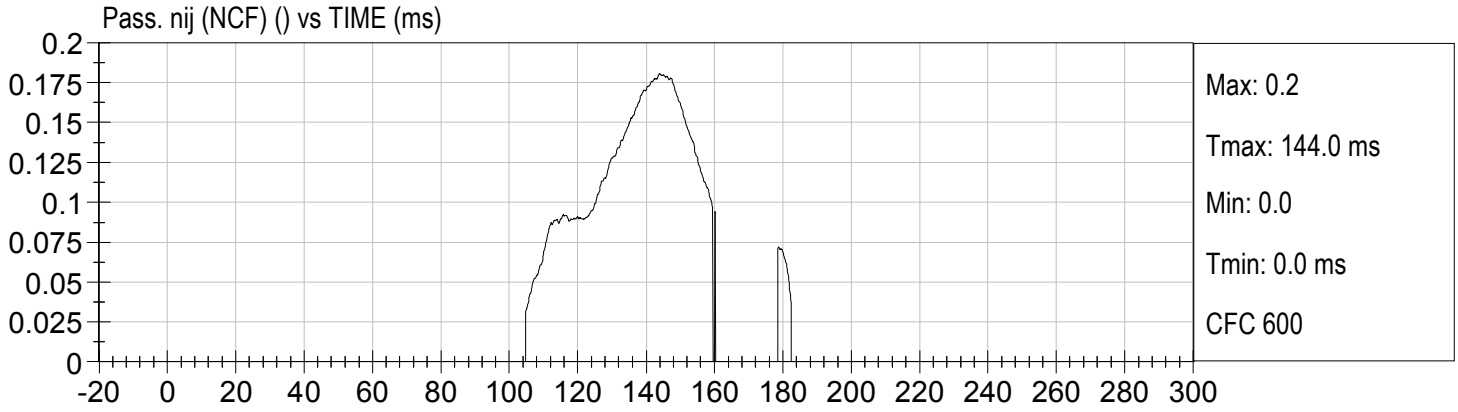
Tmax: 61.6 ms
Min: 0.0
Tmin: 0.0 ms
CFC 600


Pass. nij (NCF) () vs TIME (ms)
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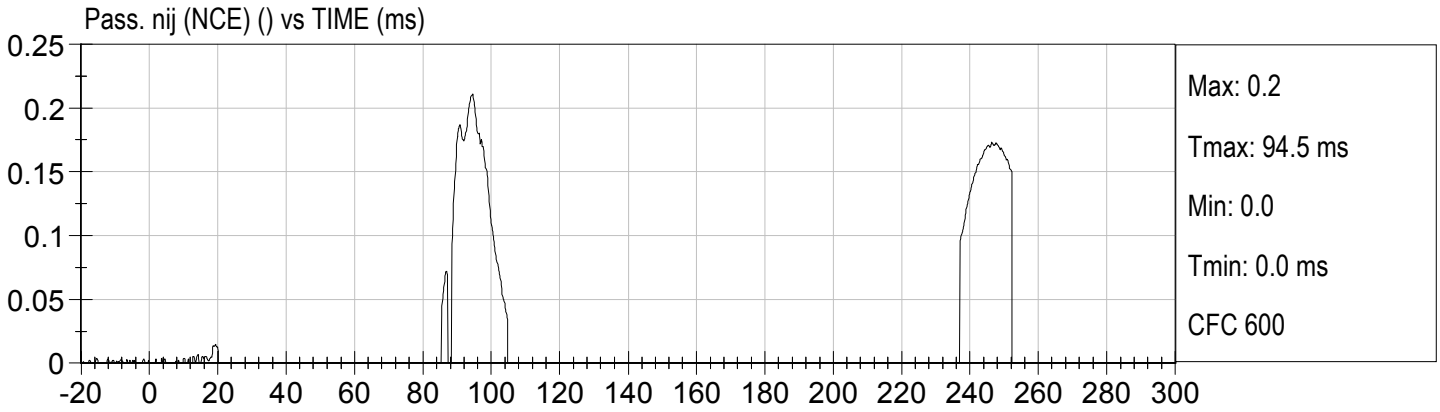
CFC 600


Pass. nij (NCE) () vs TIME (ms)
Max: 0.2
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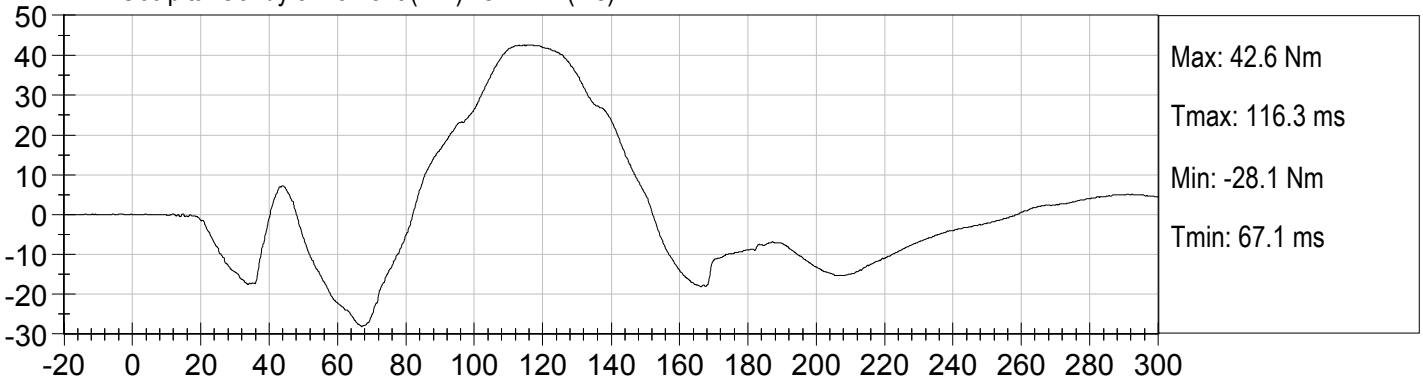
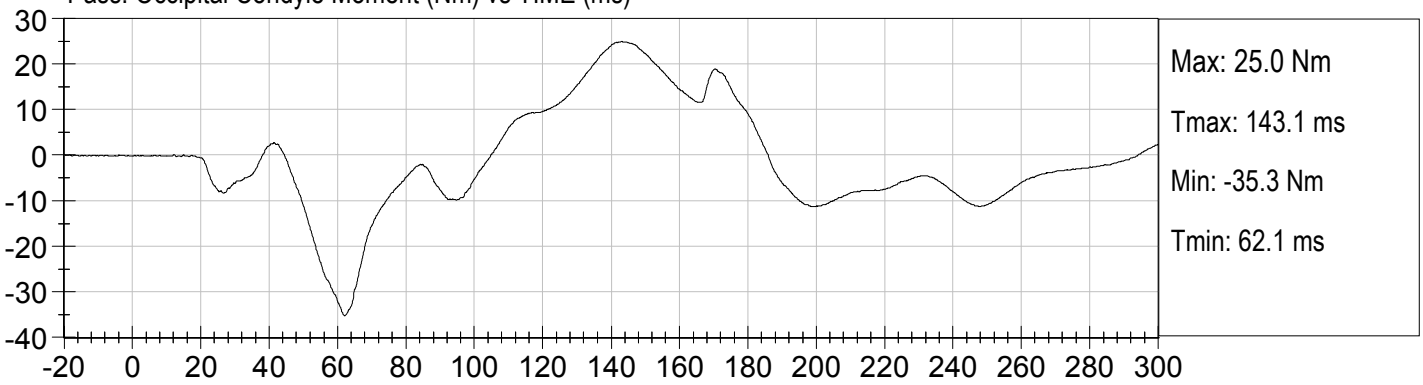
Min: 0.0
Tmin: 0.0 ms
CFC 600

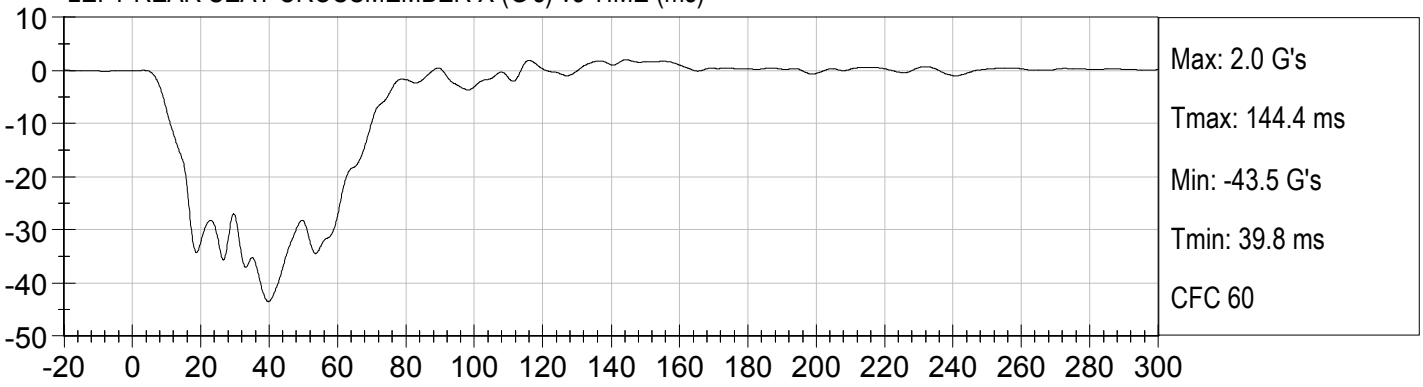
Drv. Occipital Condyle Moment (Nm) vs TIME (ms)



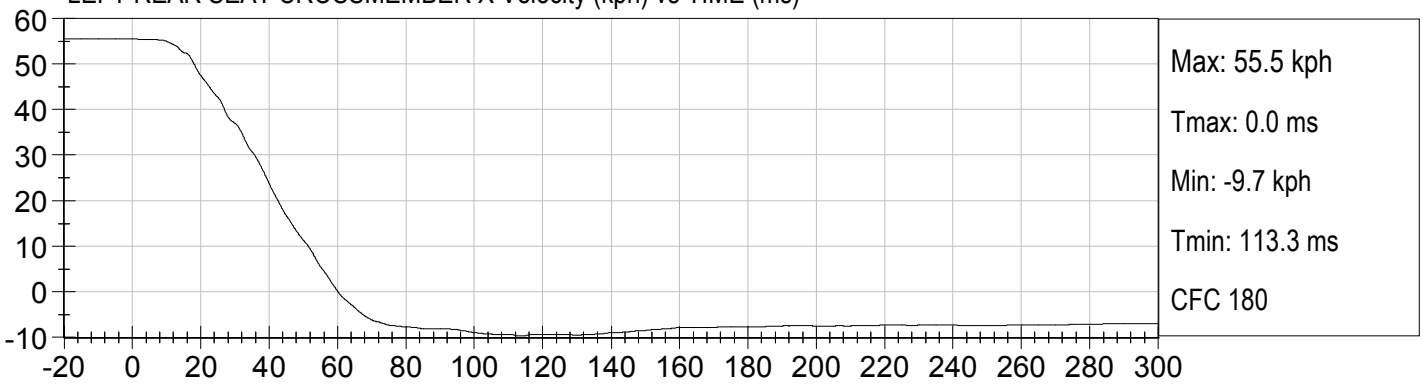
Pass. Occipital Condyle Moment (Nm) vs TIME (ms)



LEFT REAR SEAT CROSSMEMBER X (G's) vs TIME (ms)



LEFT REAR SEAT CROSSMEMBER X Velocity (kph) vs TIME (ms)



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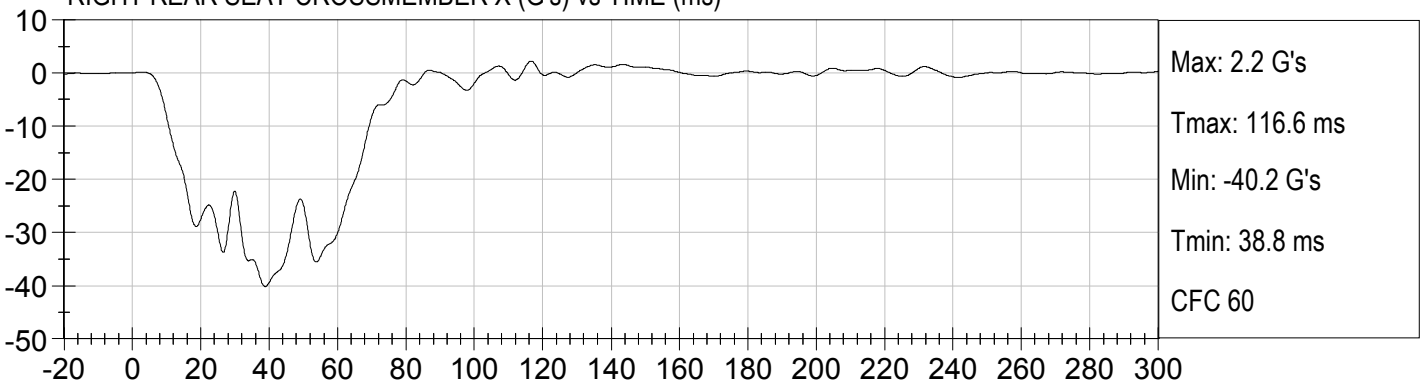
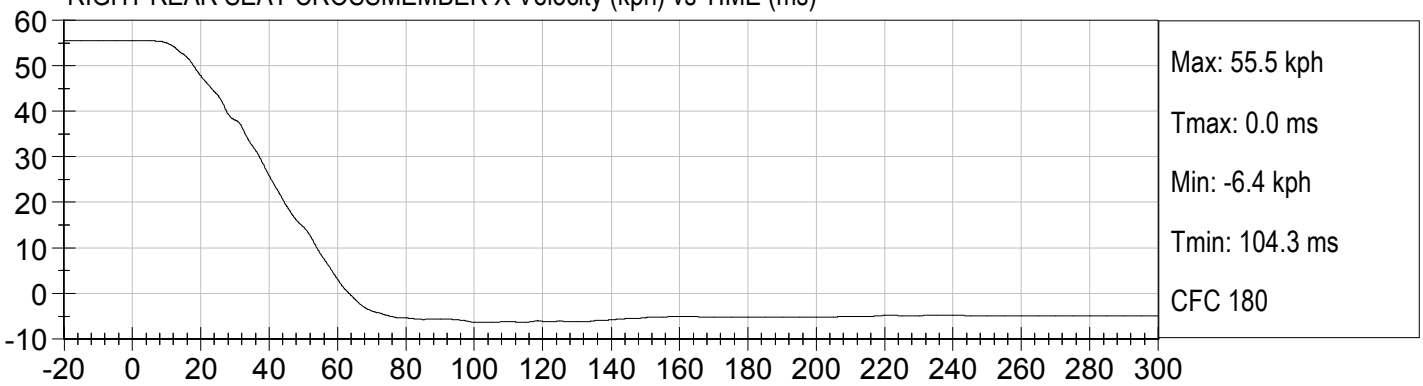
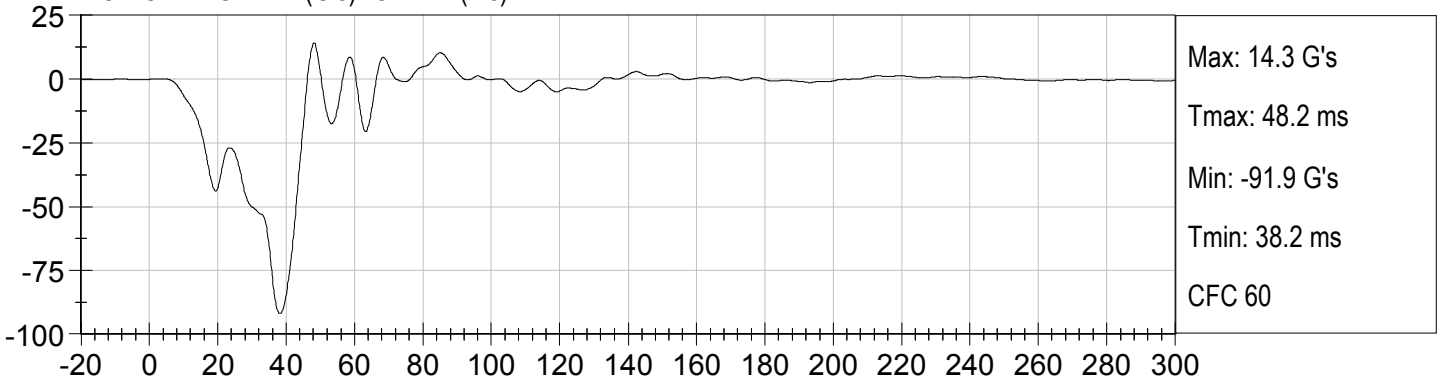


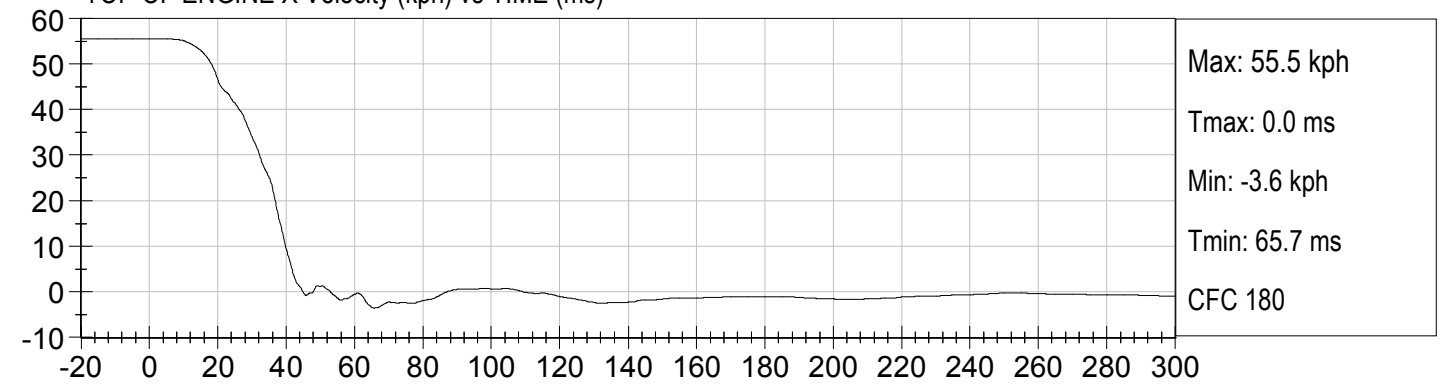
RIGHT REAR SEAT CROSSMEMBER X Velocity (kph) vs TIME (ms)



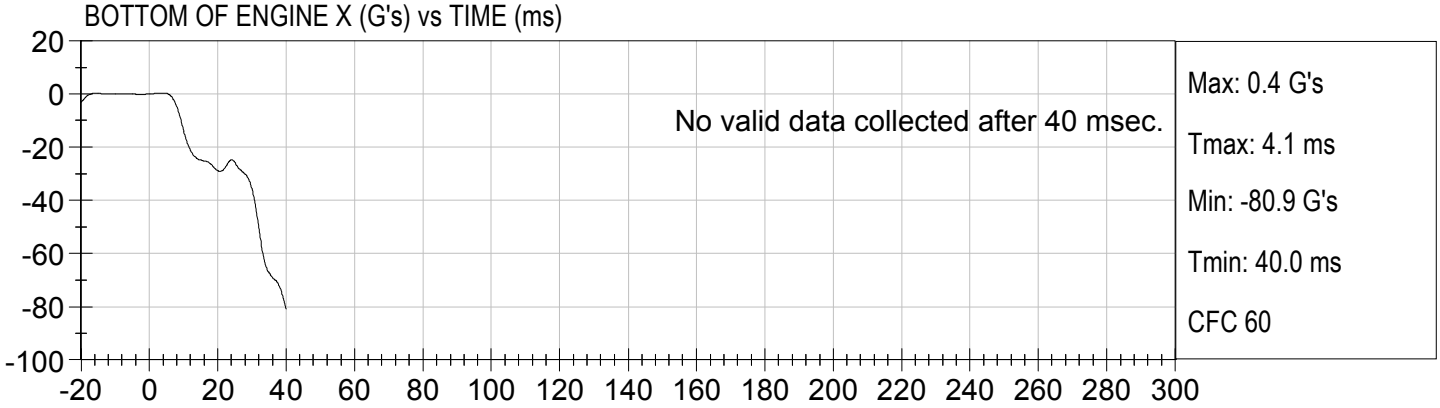
TOP OF ENGINE X (G's) vs TIME (ms)



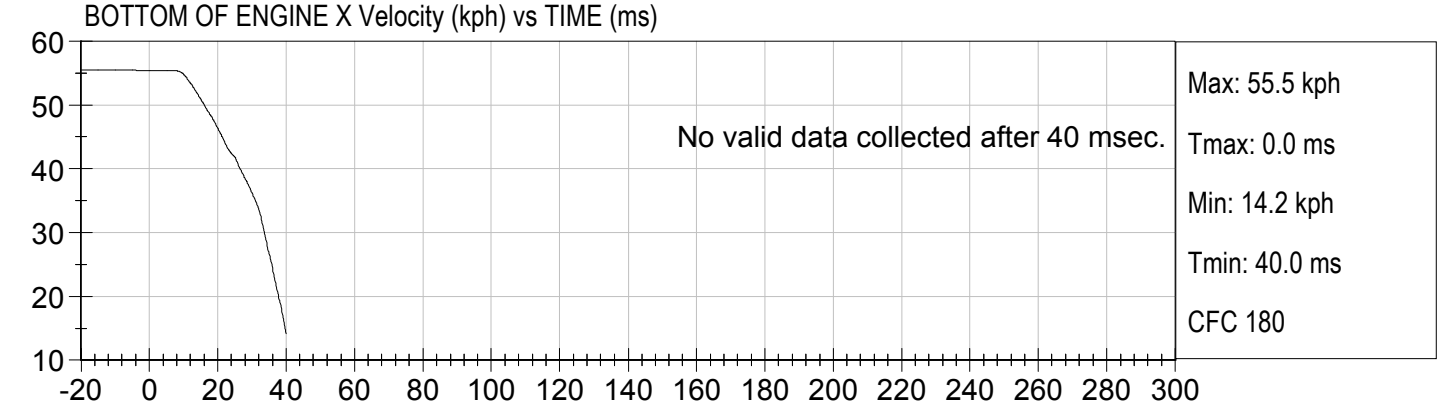
TOP OF ENGINE X Velocity (kph) vs TIME (ms)



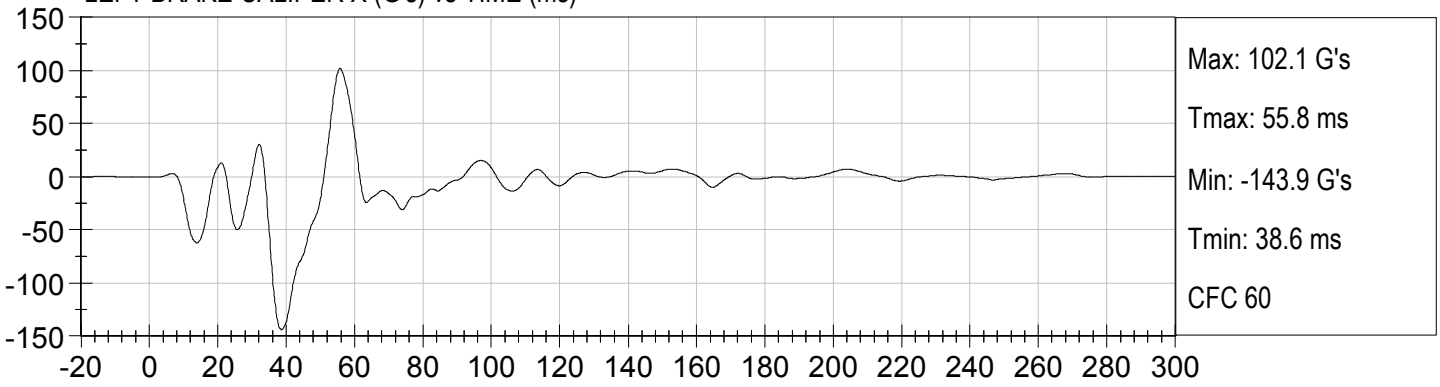
BOTTOM OF ENGINE X (G's) vs TIME (ms)



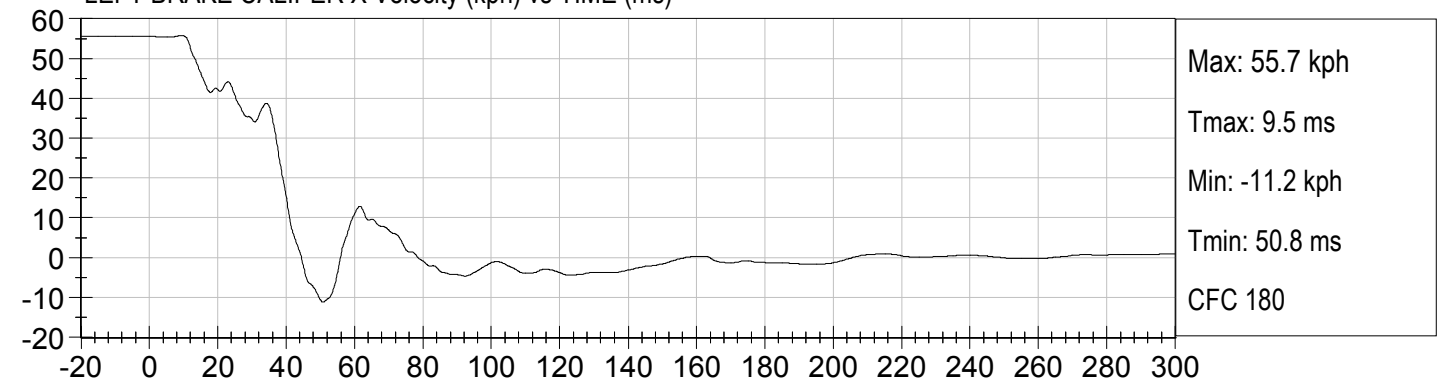
BOTTOM OF ENGINE X Velocity (kph) vs TIME (ms)



LEFT BRAKE CALIPER X (G's) vs TIME (ms)



LEFT BRAKE CALIPER X Velocity (kph) vs TIME (ms)



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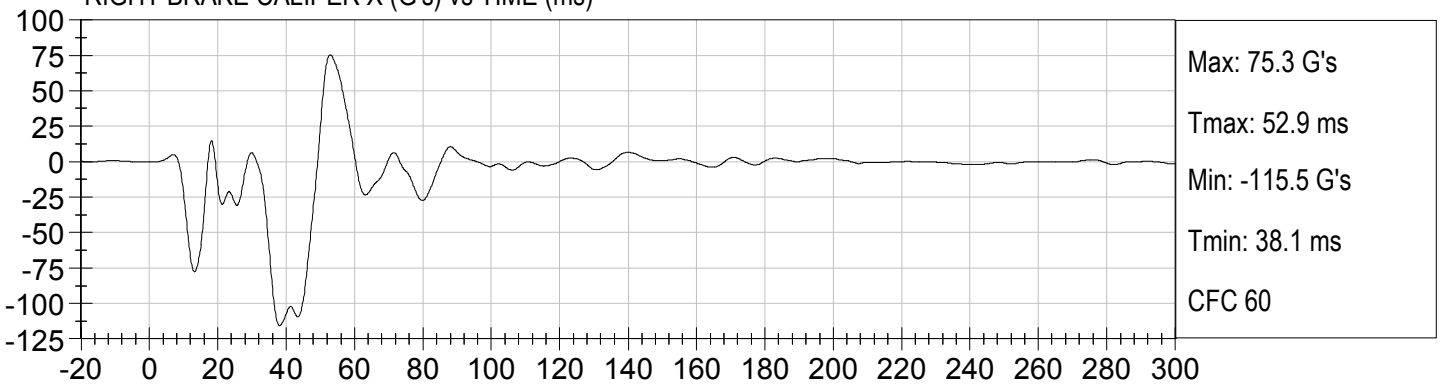
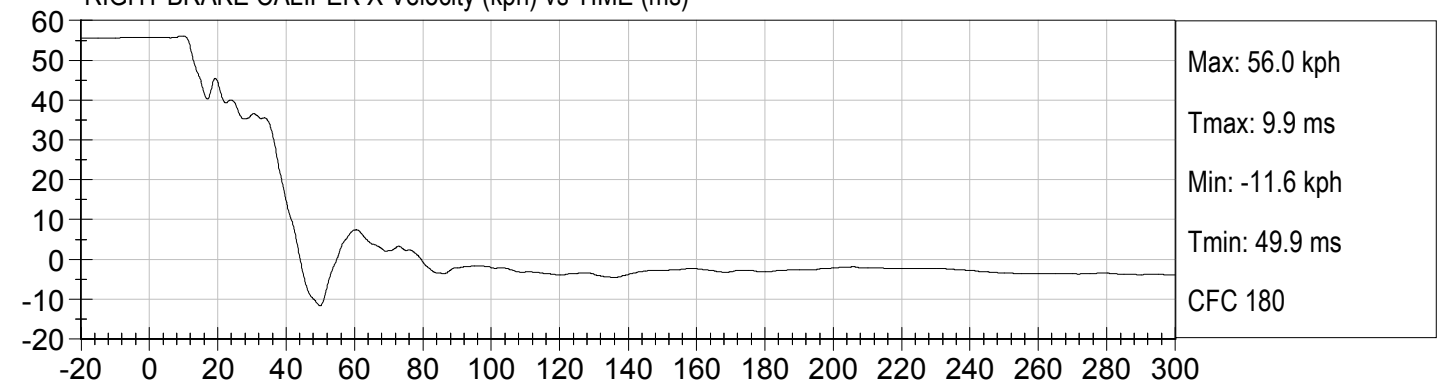
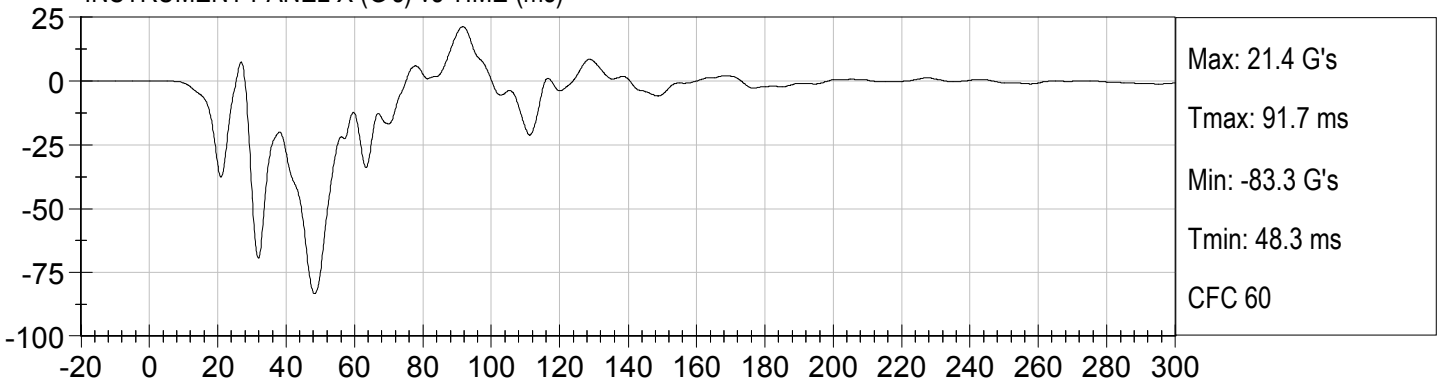


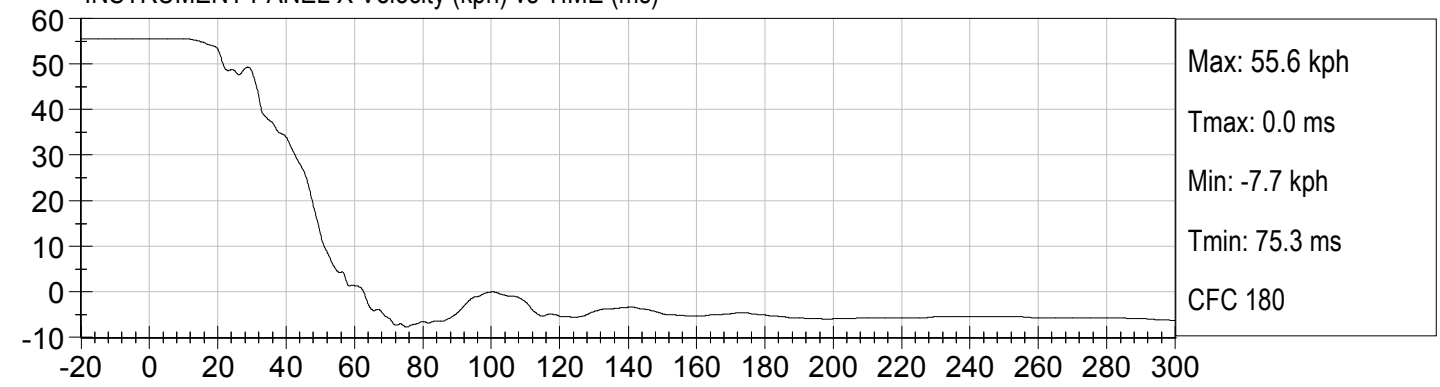
RIGHT BRAKE CALIPER X Velocity (kph) vs TIME (ms)



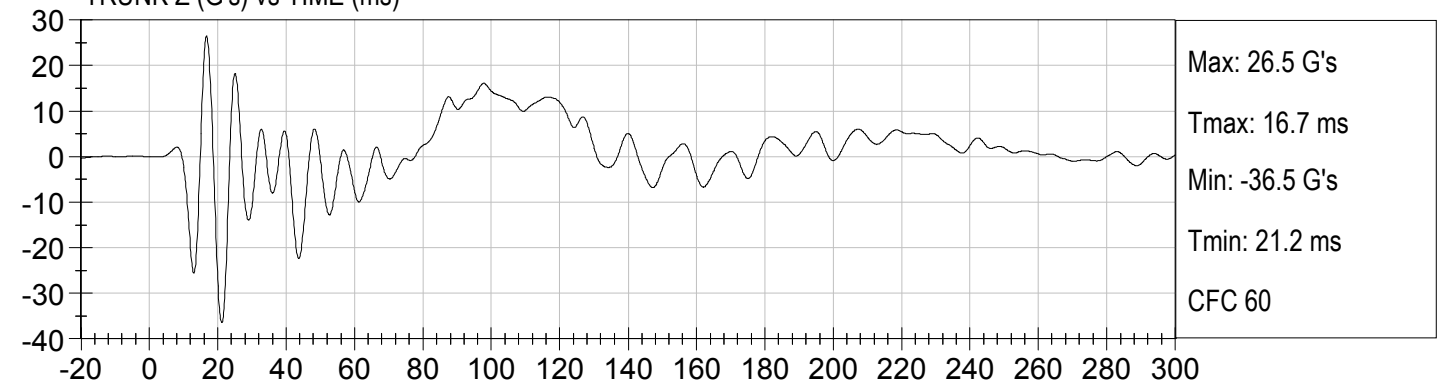
INSTRUMENT PANEL X (G's) vs TIME (ms)



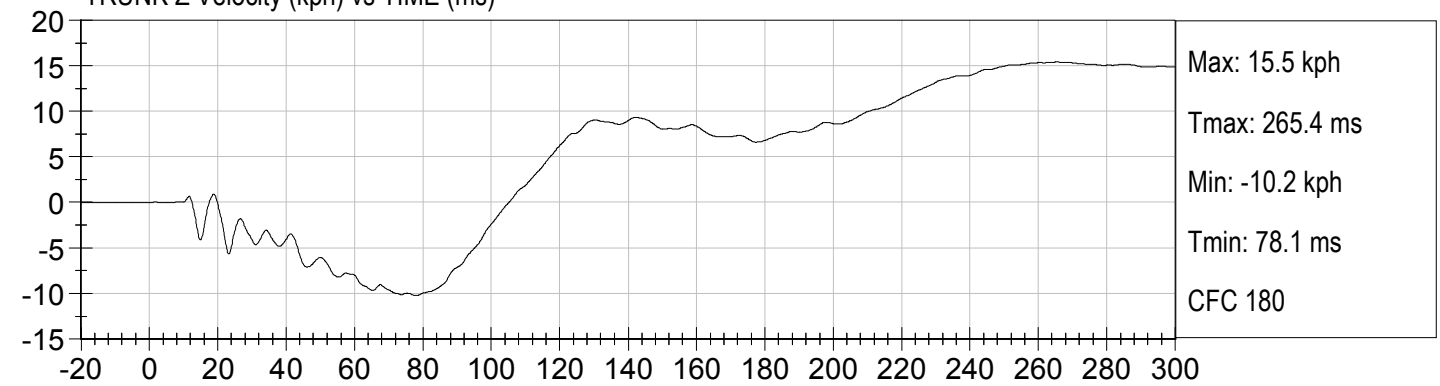
INSTRUMENT PANEL X Velocity (kph) vs TIME (ms)



TRUNK Z (G's) vs TIME (ms)



TRUNK Z Velocity (kph) vs TIME (ms)



APPENDIX B

LOW RISK TEST DATA

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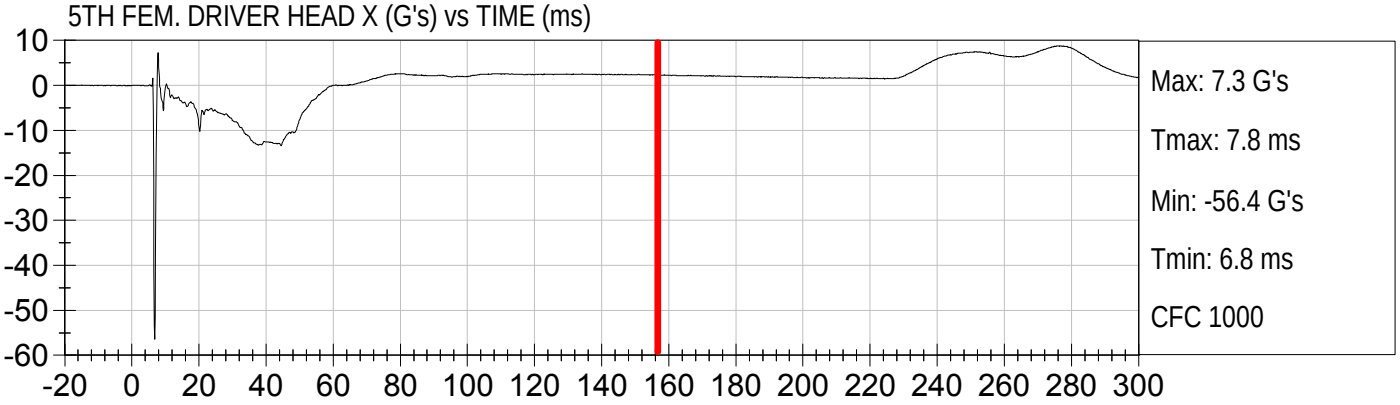
LOW RISK DEPLOYMENT
2013 Nissan Frontier (C20135202) (5th P1)

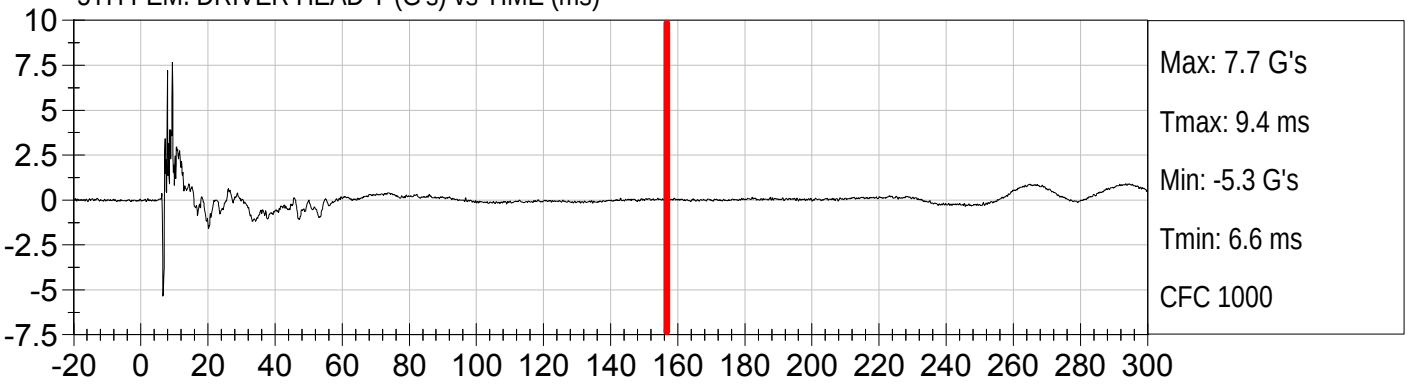
Test Date: 5/6/13
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 155ms

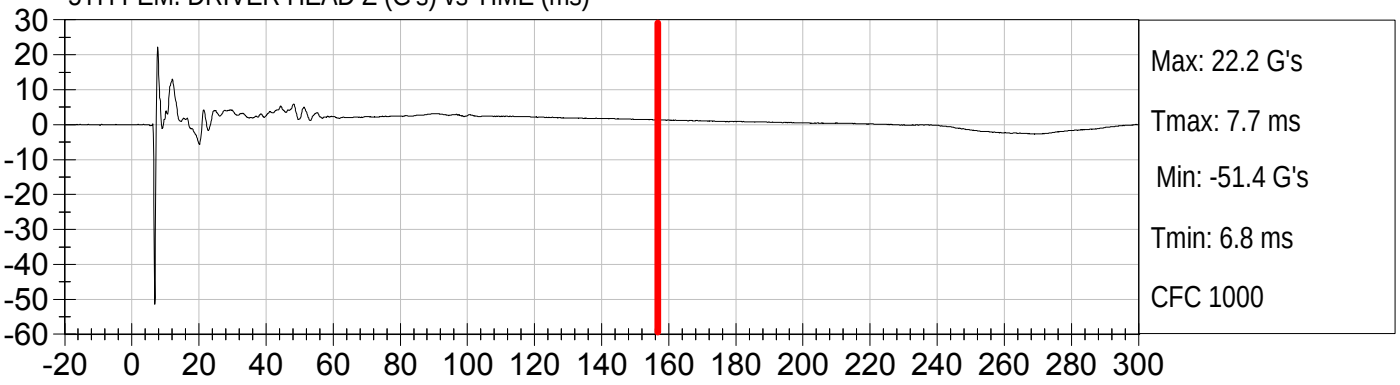
5TH FEM. DRIVER HEAD X (G's) vs TIME (ms)



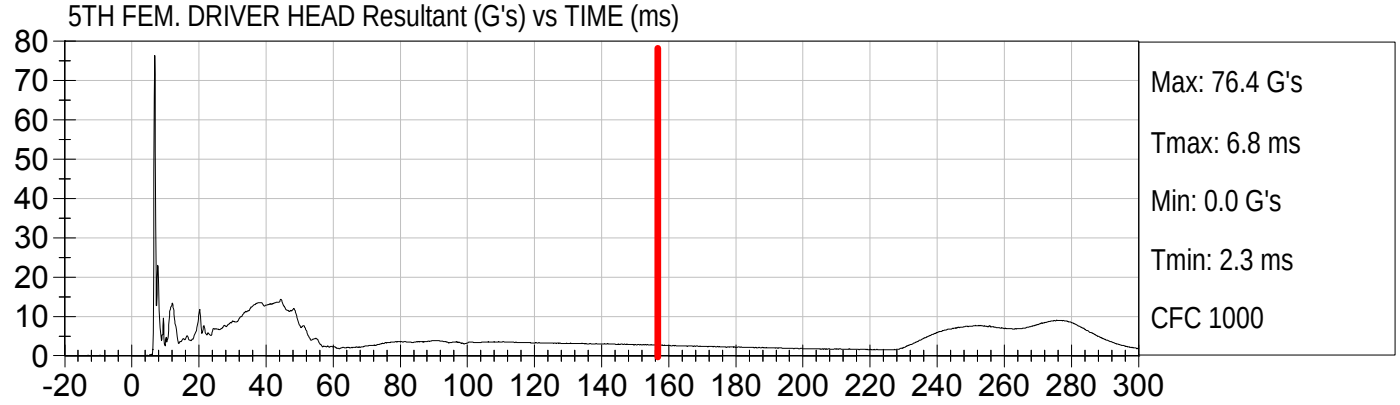
5TH FEM. DRIVER HEAD Y (G's) vs TIME (ms)



5TH FEM. DRIVER HEAD Z (G's) vs TIME (ms)



5TH FEM. DRIVER HEAD Resultant (G's) vs TIME (ms)

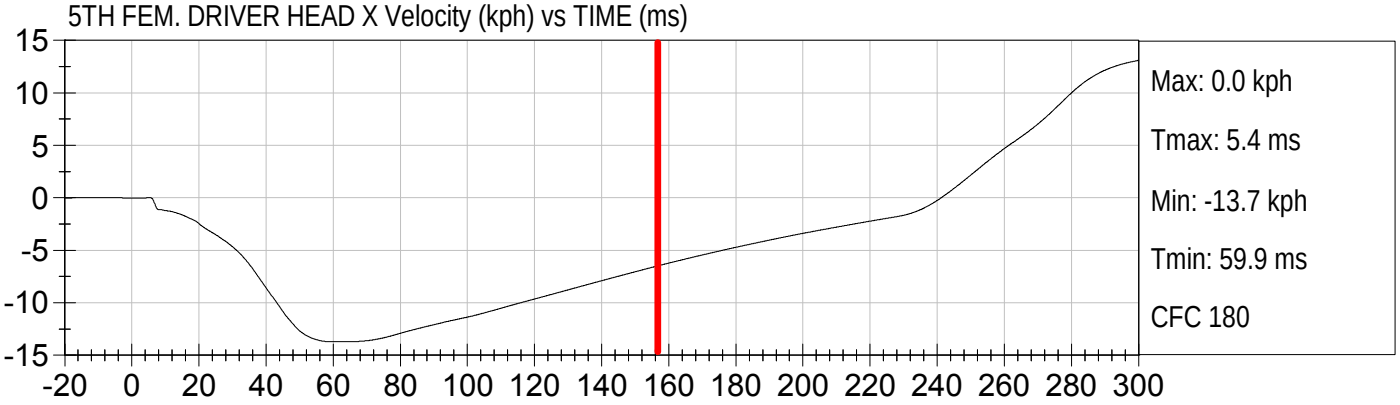


LOW RISK DEPLOYMENT
2013 Nissan Frontier (C20135202) (5th P1)

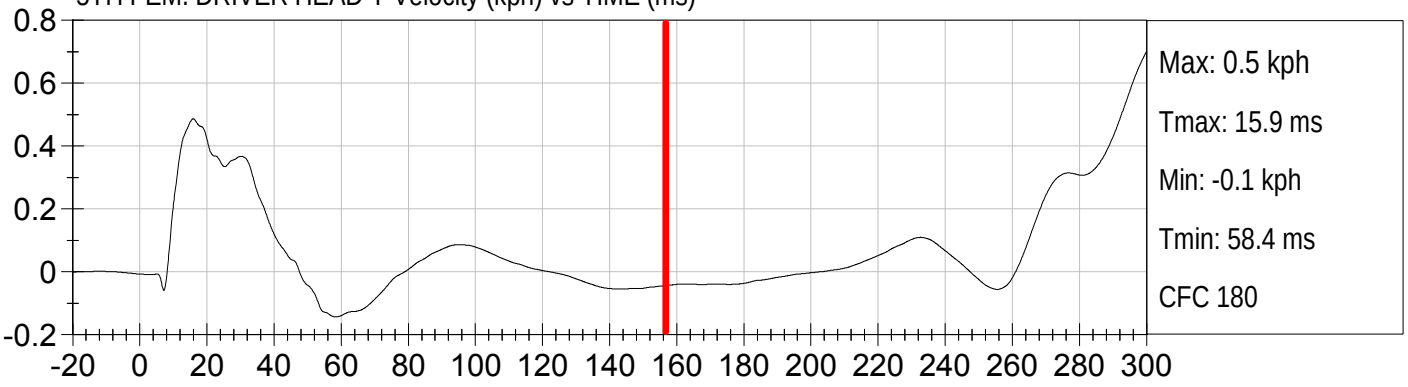
Test Date: 5/6/13
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 155ms

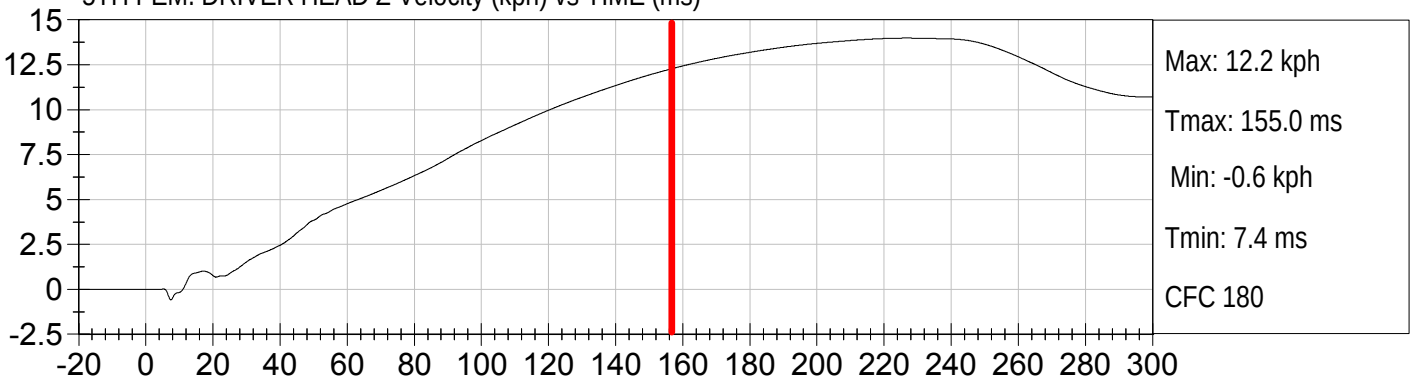
5TH FEM. DRIVER HEAD X Velocity (kph) vs TIME (ms)



5TH FEM. DRIVER HEAD Y Velocity (kph) vs TIME (ms)



5TH FEM. DRIVER HEAD Z Velocity (kph) vs TIME (ms)

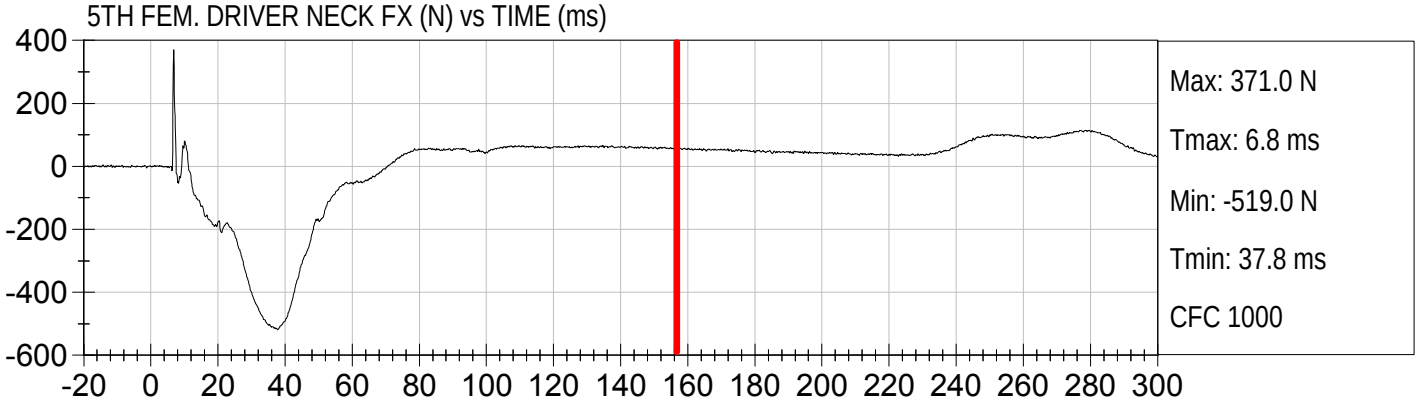


LOW RISK DEPLOYMENT
2013 Nissan Frontier (C20135202) (5th P1)

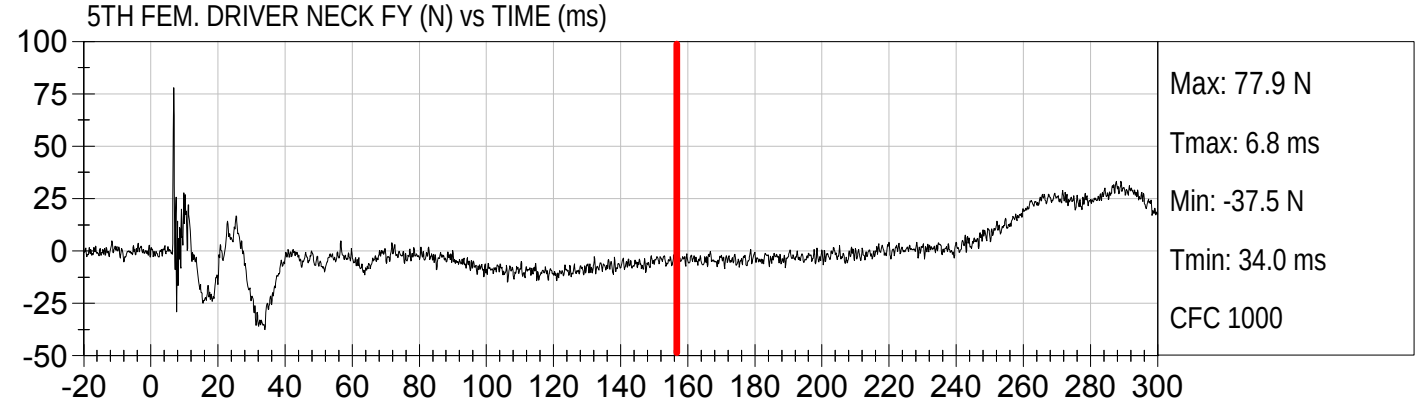
Test Date: 5/6/13
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 155ms

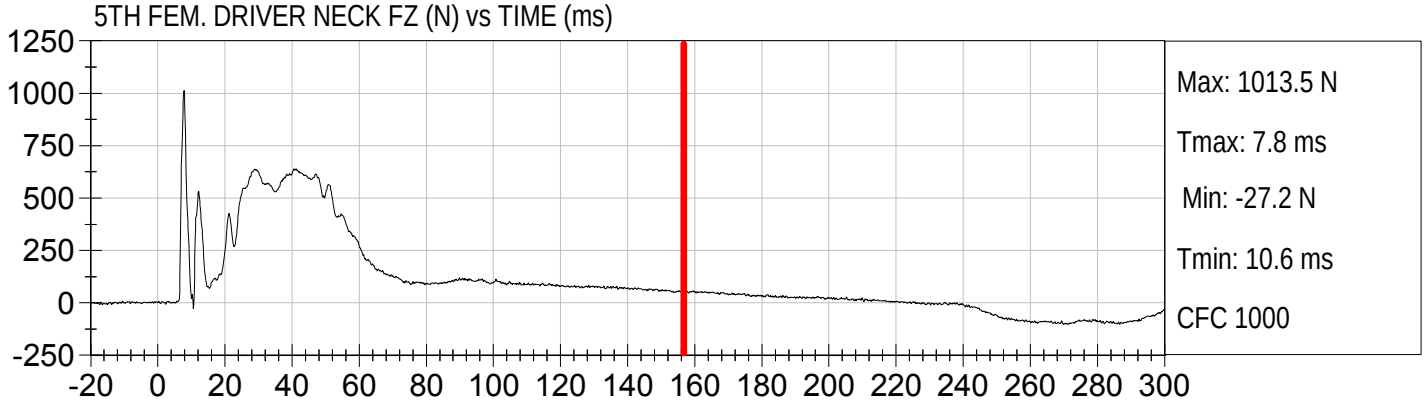
5TH FEM. DRIVER NECK FX (N) vs TIME (ms)



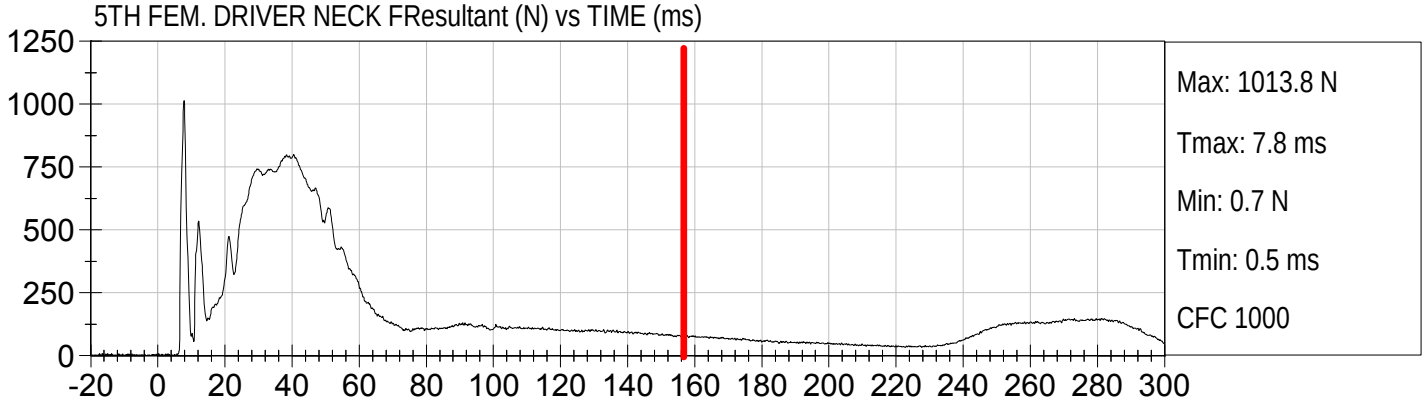
5TH FEM. DRIVER NECK FY (N) vs TIME (ms)



5TH FEM. DRIVER NECK FZ (N) vs TIME (ms)



5TH FEM. DRIVER NECK FResultant (N) vs TIME (ms)

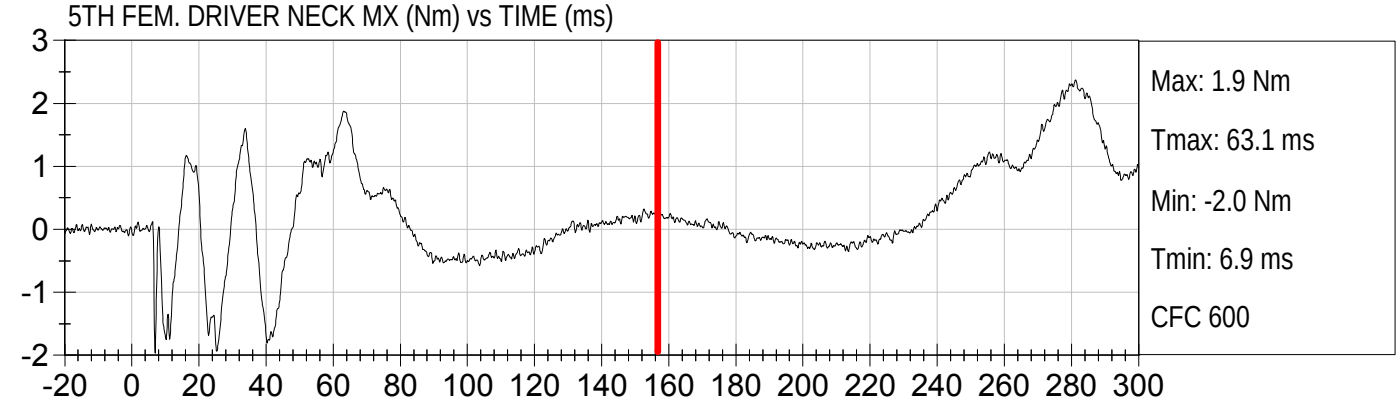


LOW RISK DEPLOYMENT
2013 Nissan Frontier (C20135202) (5th P1)

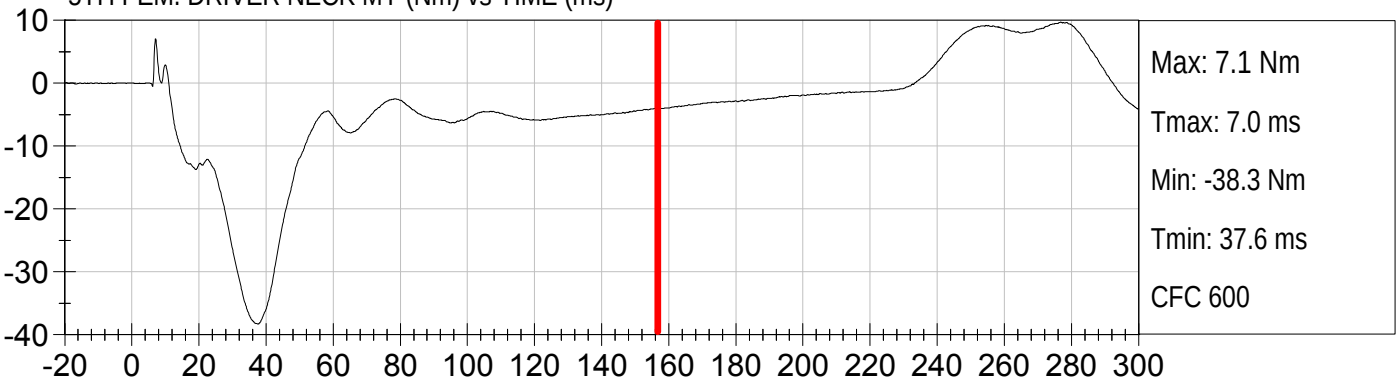
Test Date: 5/6/13
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 155ms

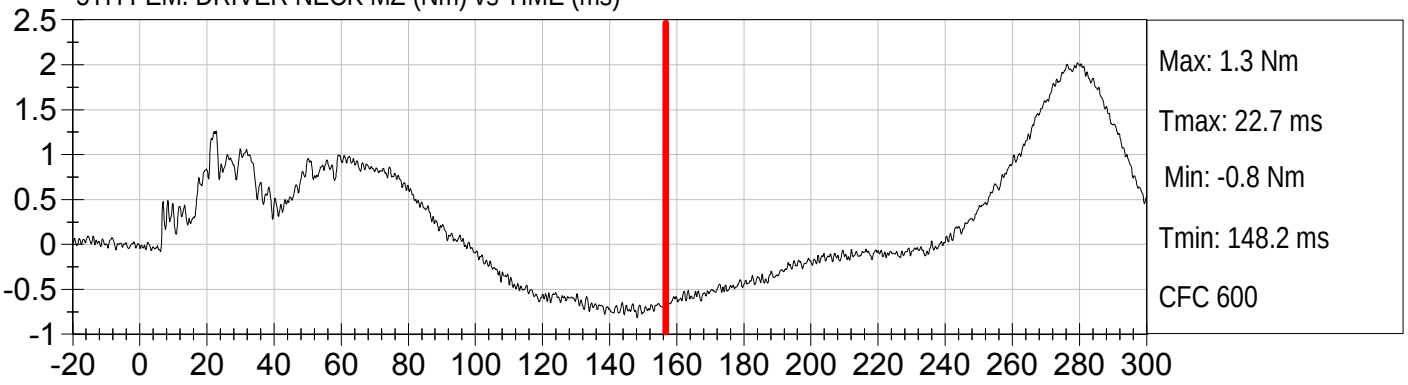
5TH FEM. DRIVER NECK MX (Nm) vs TIME (ms)



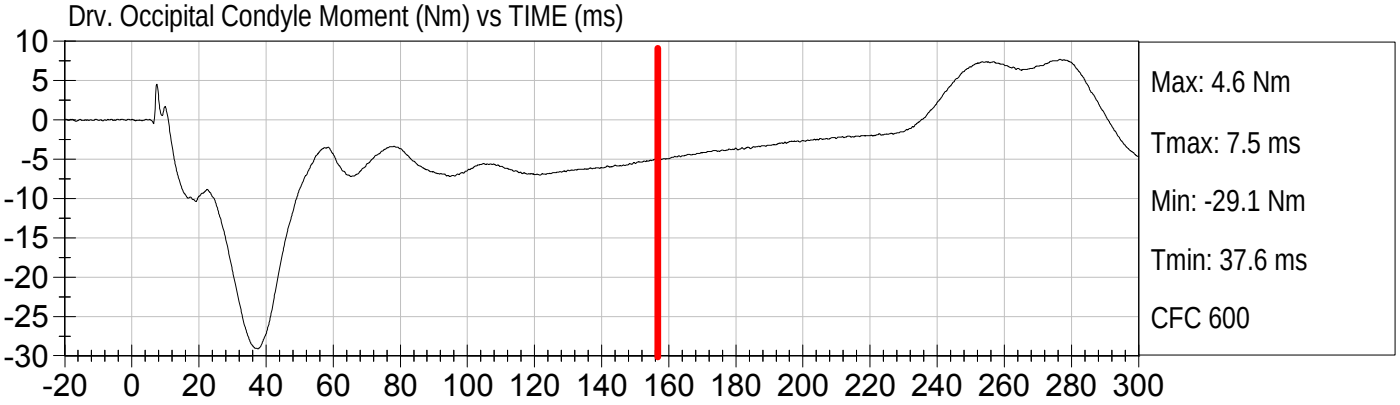
5TH FEM. DRIVER NECK MY (Nm) vs TIME (ms)



5TH FEM. DRIVER NECK MZ (Nm) vs TIME (ms)



Drv. Occipital Condyle Moment (Nm) vs TIME (ms)

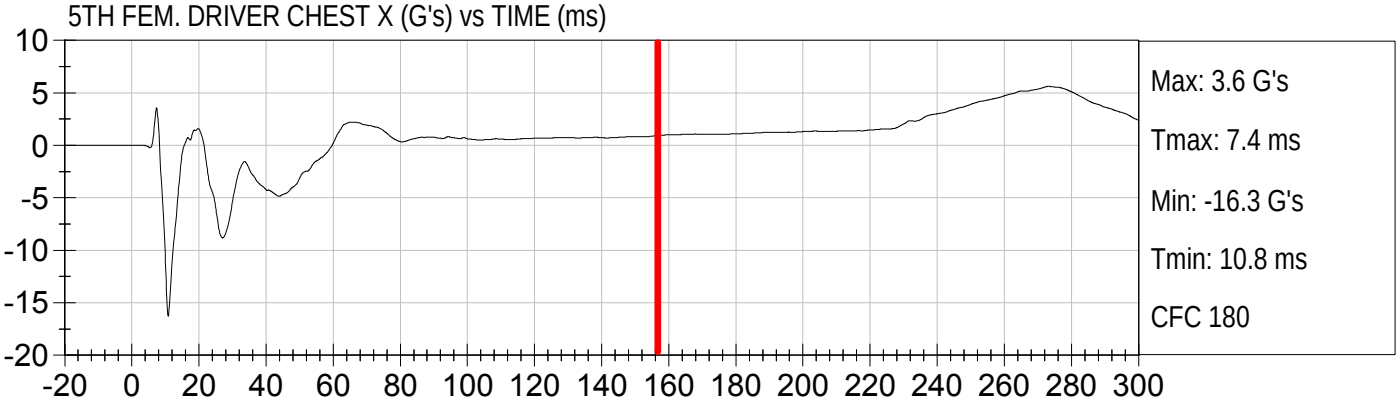


LOW RISK DEPLOYMENT
2013 Nissan Frontier (C20135202) (5th P1)

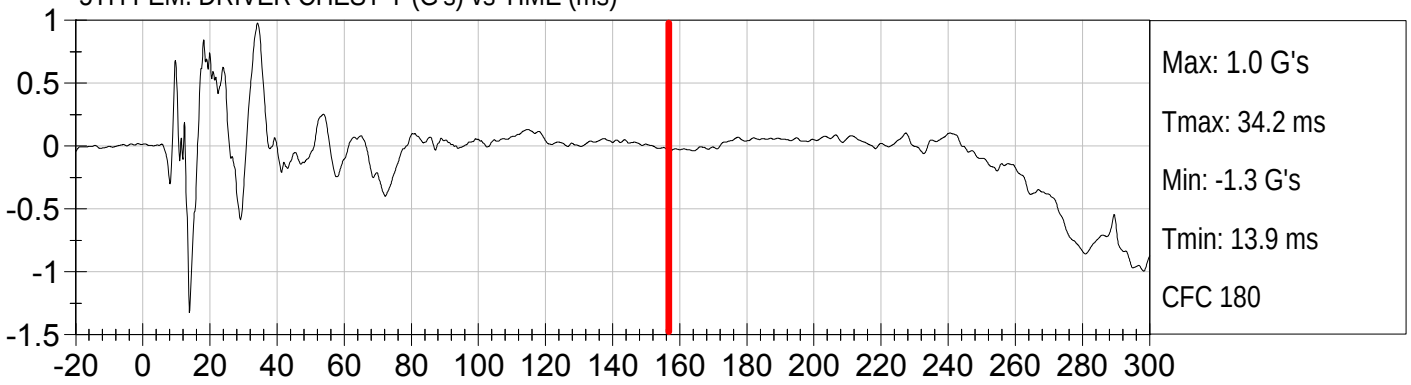
Test Date: 5/6/13
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 155ms

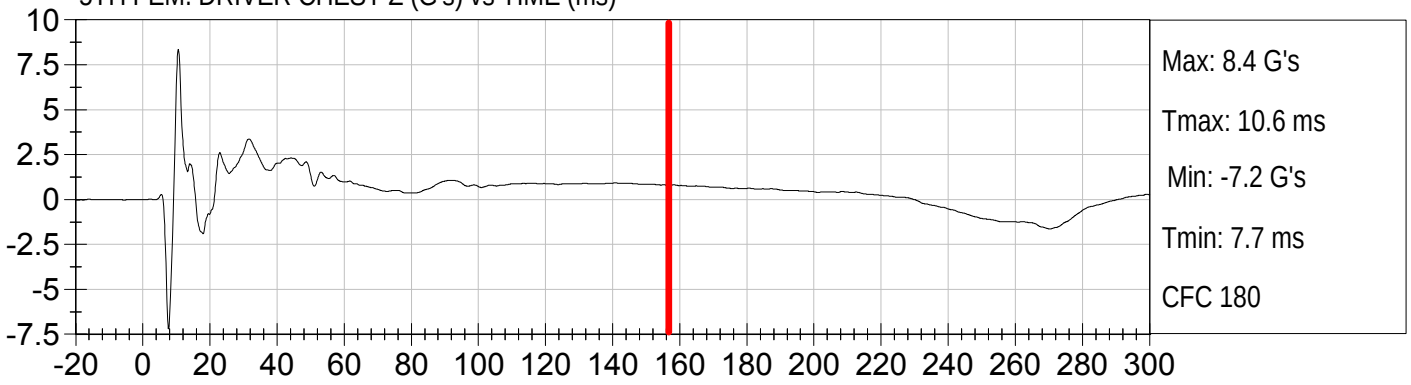
5TH FEM. DRIVER CHEST X (G's) vs TIME (ms)



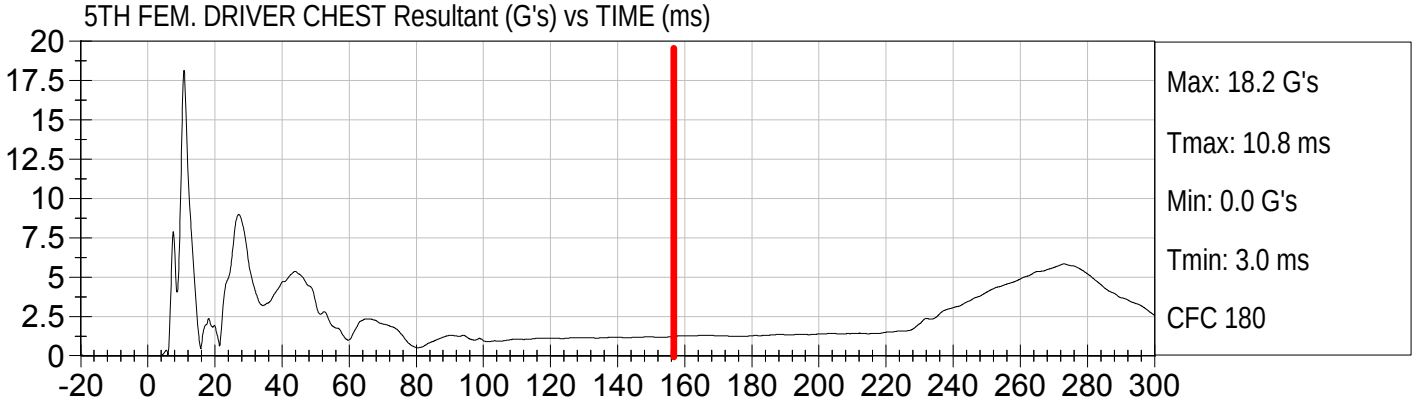
5TH FEM. DRIVER CHEST Y (G's) vs TIME (ms)



5TH FEM. DRIVER CHEST Z (G's) vs TIME (ms)



5TH FEM. DRIVER CHEST Resultant (G's) vs TIME (ms)

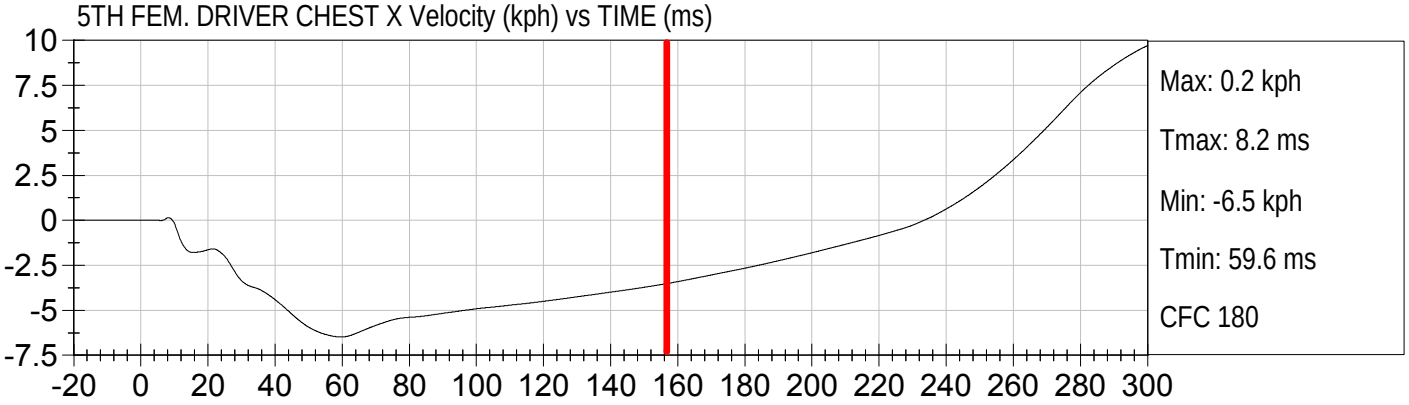


LOW RISK DEPLOYMENT
2013 Nissan Frontier (C20135202) (5th P1)

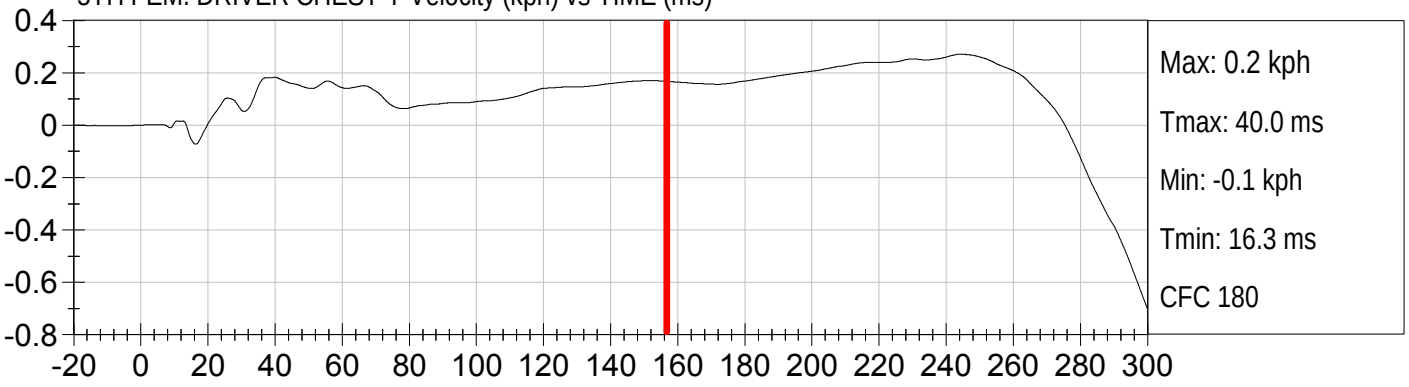
Test Date: 5/6/13
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 155ms

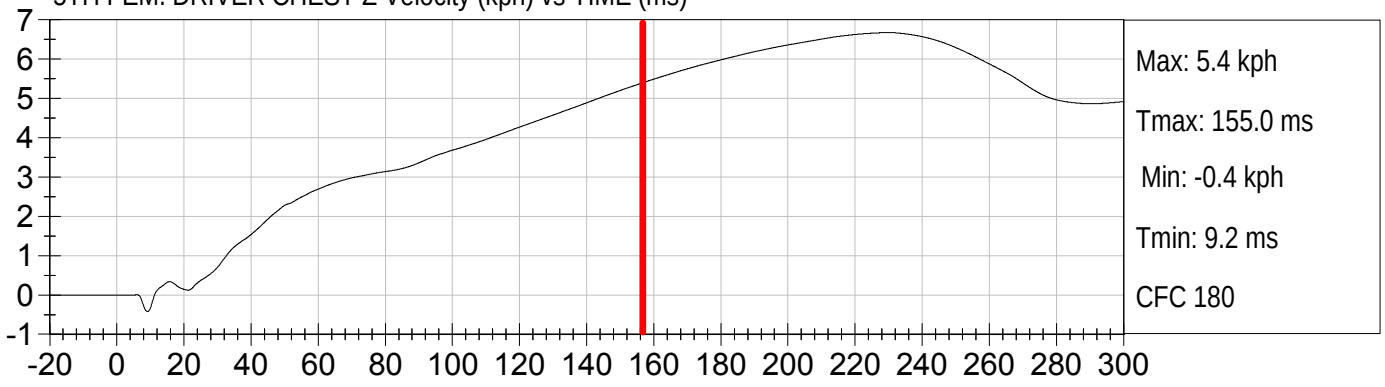
5TH FEM. DRIVER CHEST X Velocity (kph) vs TIME (ms)



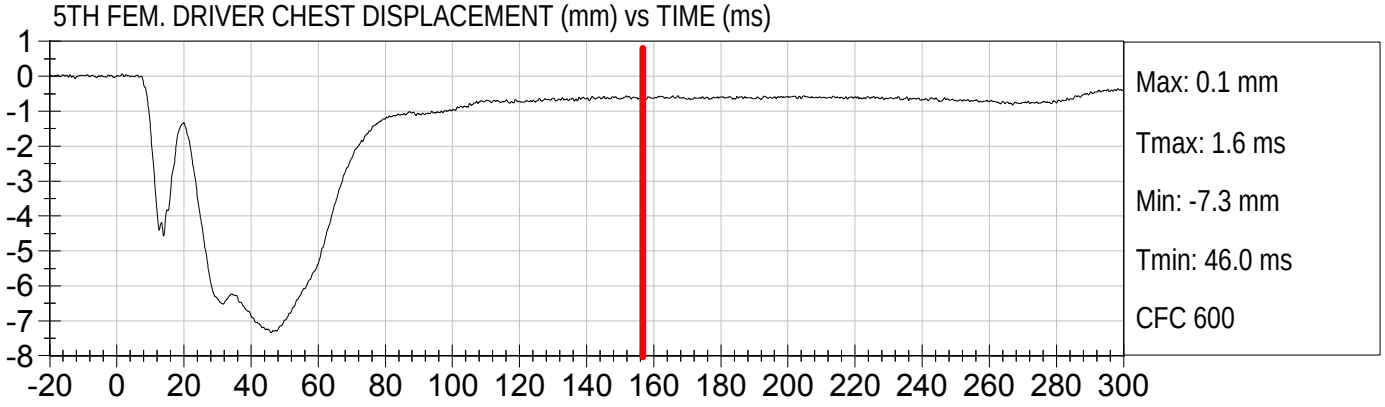
5TH FEM. DRIVER CHEST Y Velocity (kph) vs TIME (ms)



5TH FEM. DRIVER CHEST Z Velocity (kph) vs TIME (ms)



5TH FEM. DRIVER CHEST DISPLACEMENT (mm) vs TIME (ms)

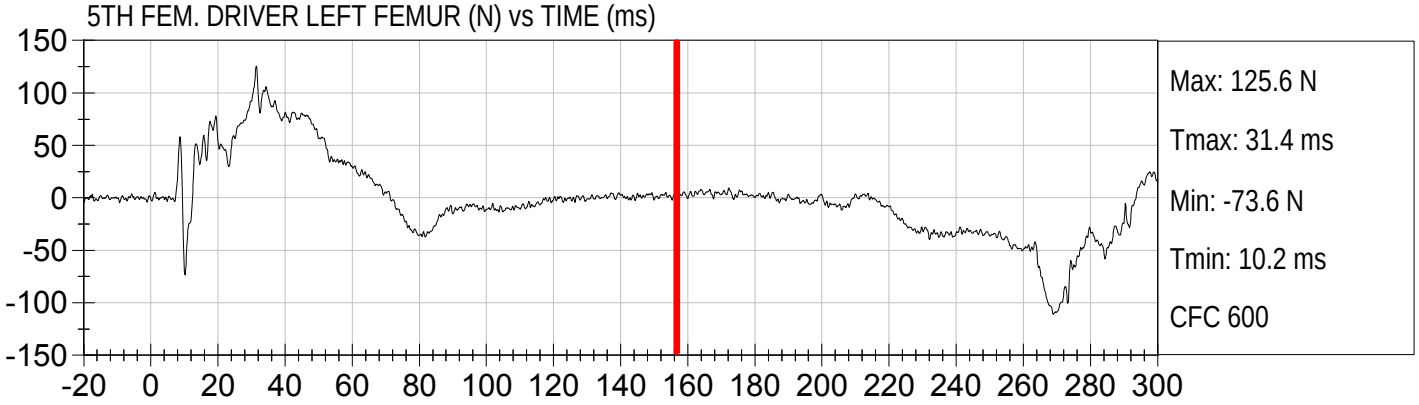


LOW RISK DEPLOYMENT
2013 Nissan Frontier (C20135202) (5th P1)

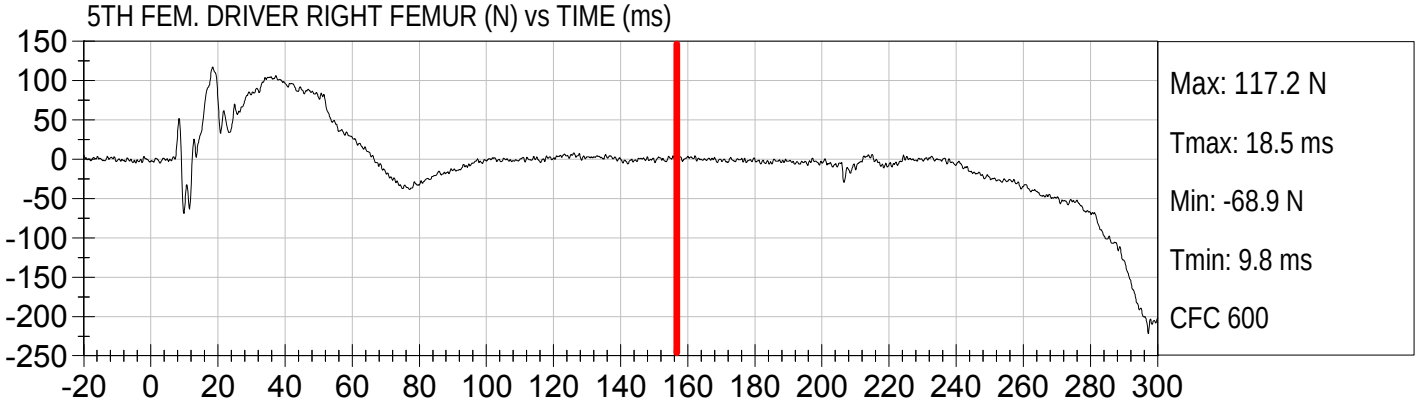
Test Date: 5/6/13
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 155ms

5TH FEM. DRIVER LEFT FEMUR (N) vs TIME (ms)



5TH FEM. DRIVER RIGHT FEMUR (N) vs TIME (ms)

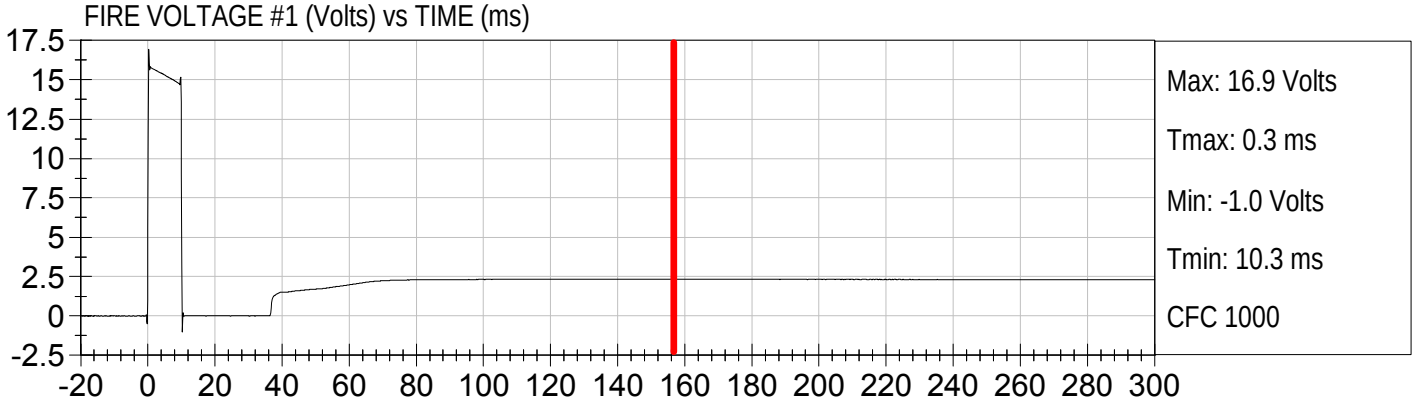


LOW RISK DEPLOYMENT
2013 Nissan Frontier (C20135202) (5th P1)

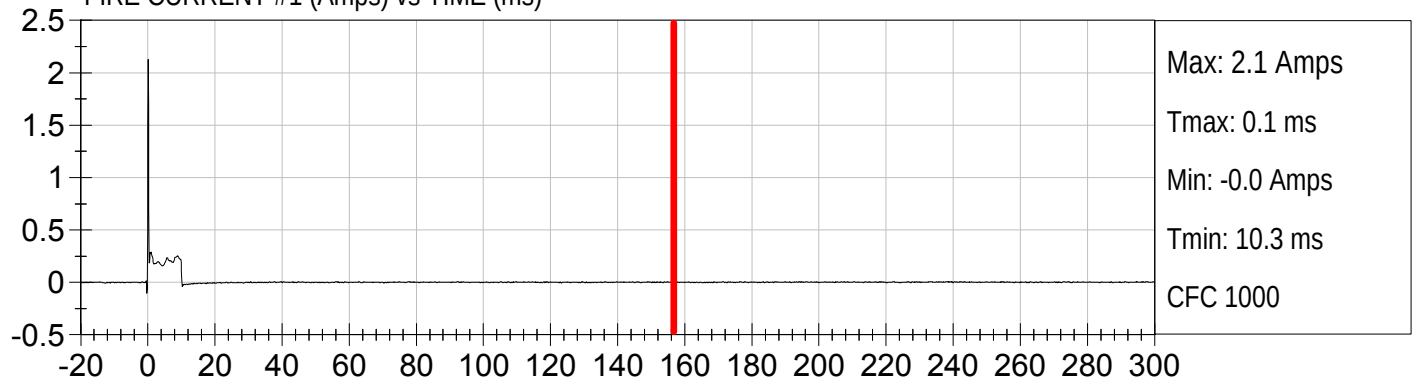
Test Date: 5/6/13
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 155ms

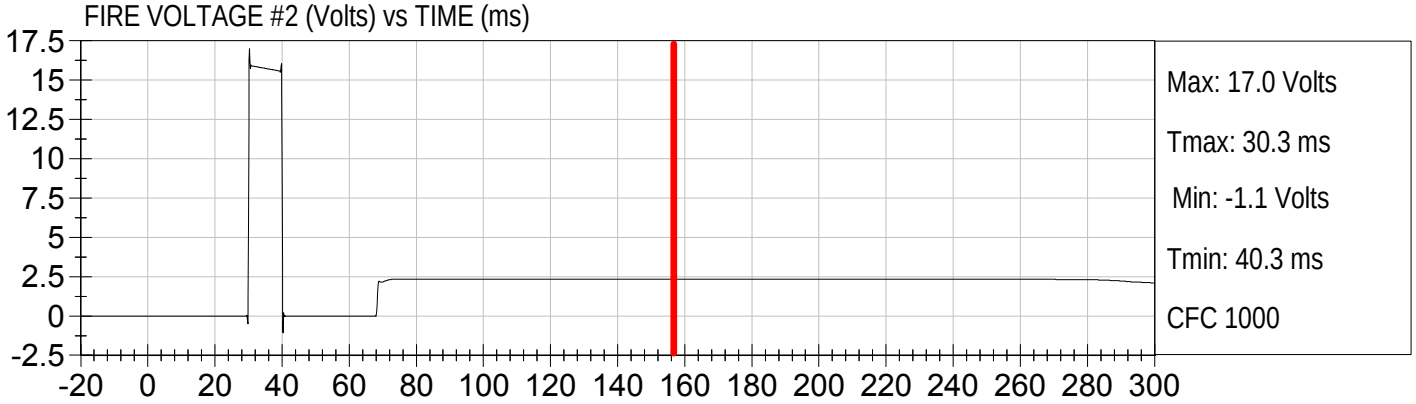
FIRE VOLTAGE #1 (Volts) vs TIME (ms)



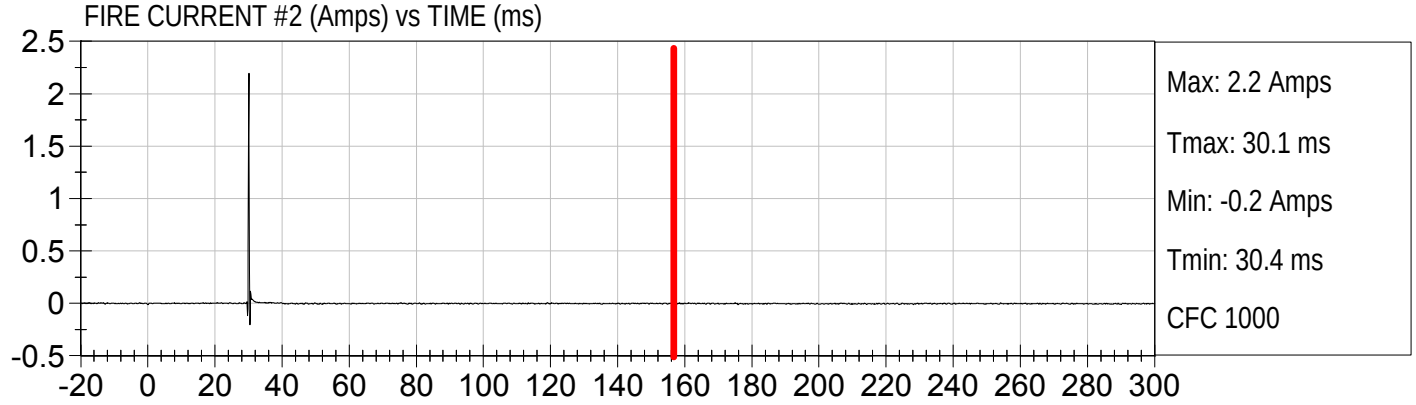
FIRE CURRENT #1 (Amps) vs TIME (ms)



FIRE VOLTAGE #2 (Volts) vs TIME (ms)



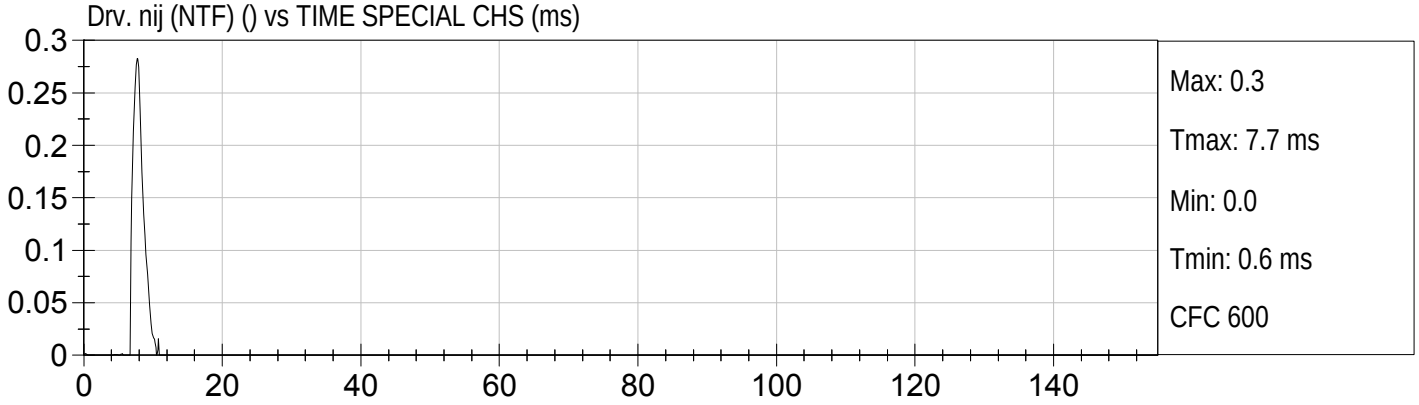
FIRE CURRENT #2 (Amps) vs TIME (ms)



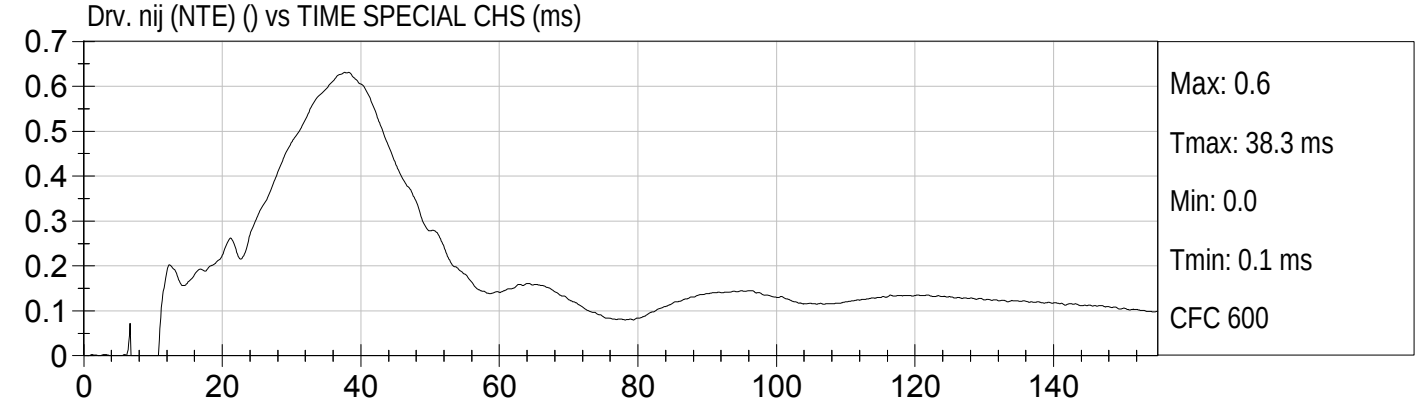
LOW RISK DEPLOYMENT
2013 Nissan Frontier (C20135202) (5th P1)

Test Date: 5/6/13
Speed: 0.0 mph (0.0 km/h)

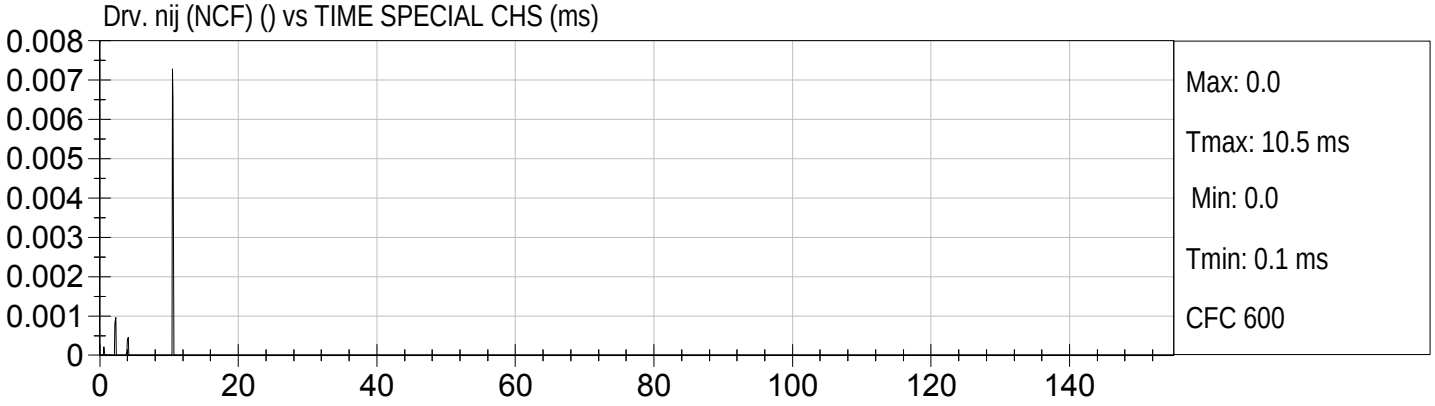
Drv. nij (NTF) () vs TIME SPECIAL CHS (ms)



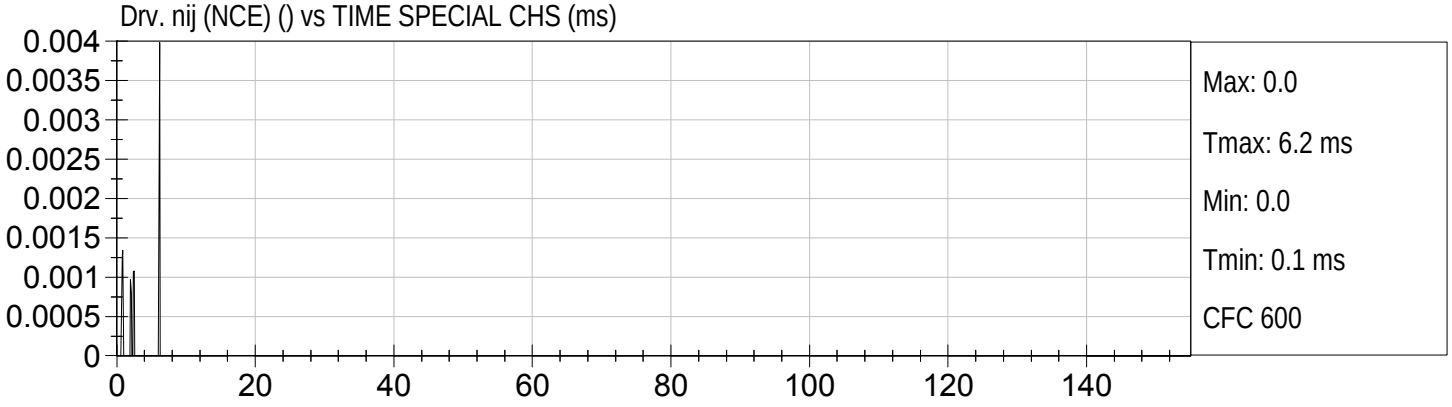
Drv. nij (NTE) () vs TIME SPECIAL CHS (ms)



Drv. nij (NCF) () vs TIME SPECIAL CHS (ms)



Drv. nij (NCE) () vs TIME SPECIAL CHS (ms)

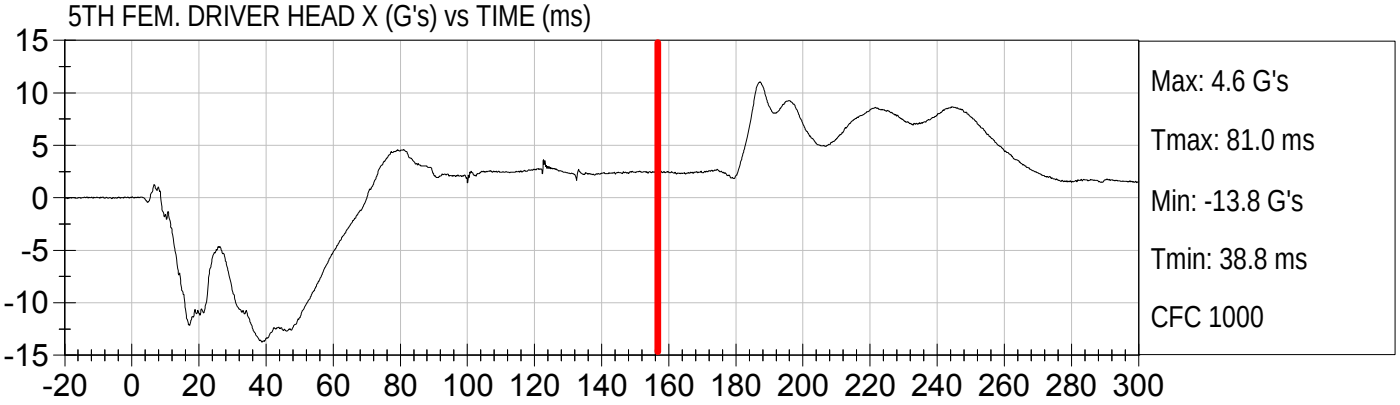


LOW RISK DEPLOYMENT
2013 Nissan Frontier (C20135202) (5th P2)

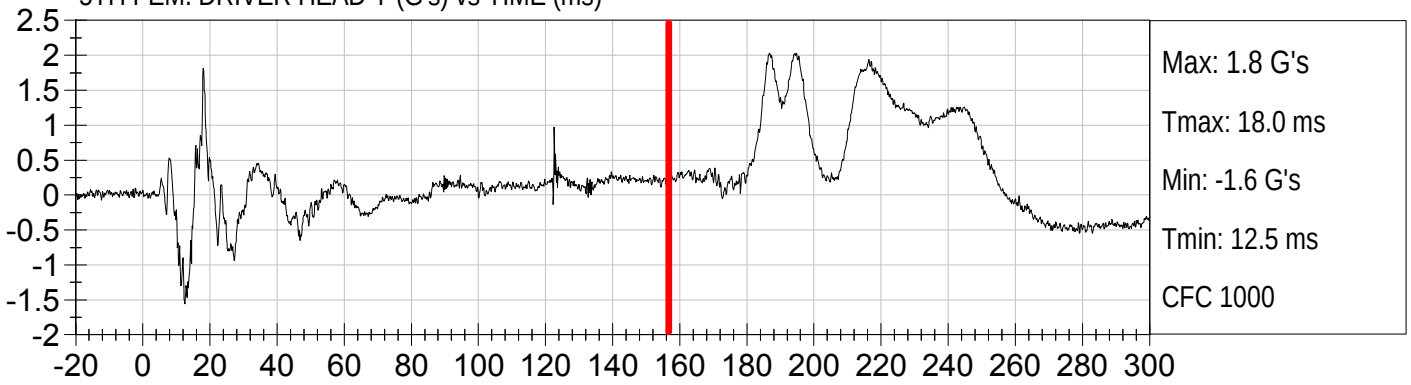
Test Date: 5/6/13
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 155ms

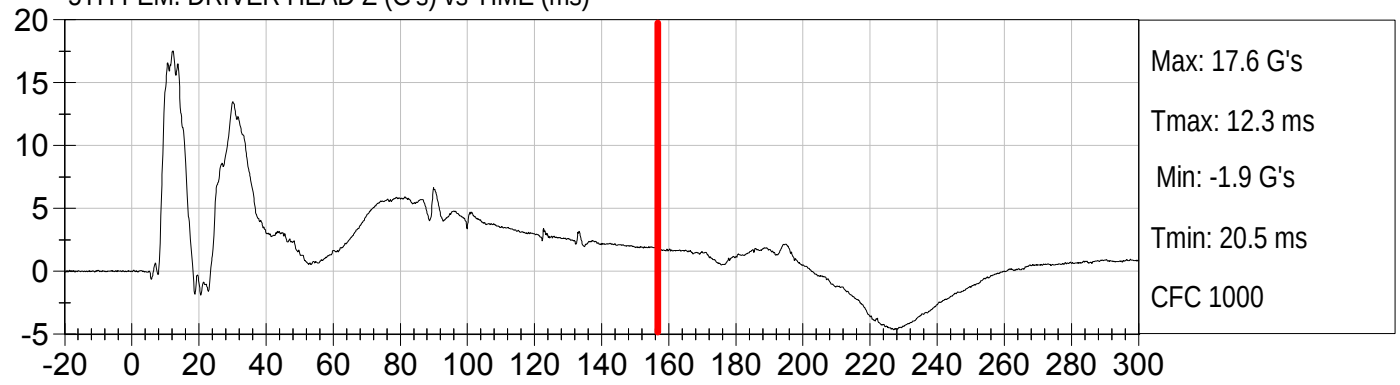
5TH FEM. DRIVER HEAD X (G's) vs TIME (ms)



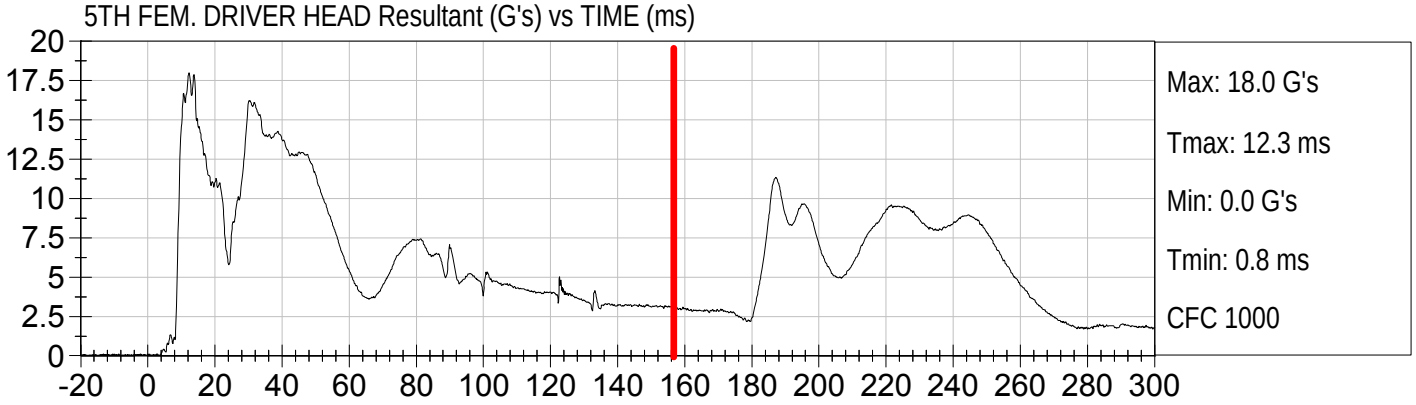
5TH FEM. DRIVER HEAD Y (G's) vs TIME (ms)



5TH FEM. DRIVER HEAD Z (G's) vs TIME (ms)



5TH FEM. DRIVER HEAD Resultant (G's) vs TIME (ms)

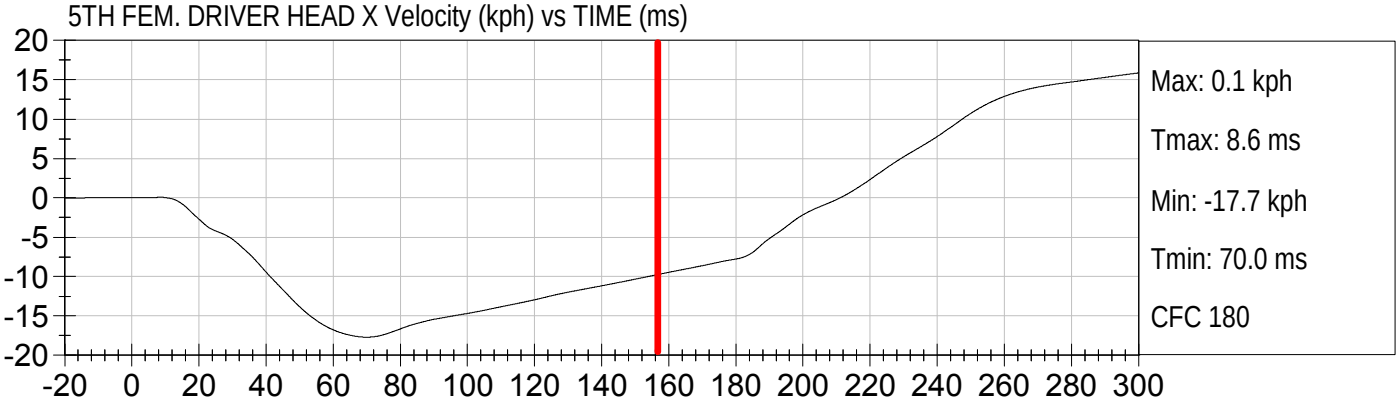


LOW RISK DEPLOYMENT
2013 Nissan Frontier (C20135202) (5th P2)

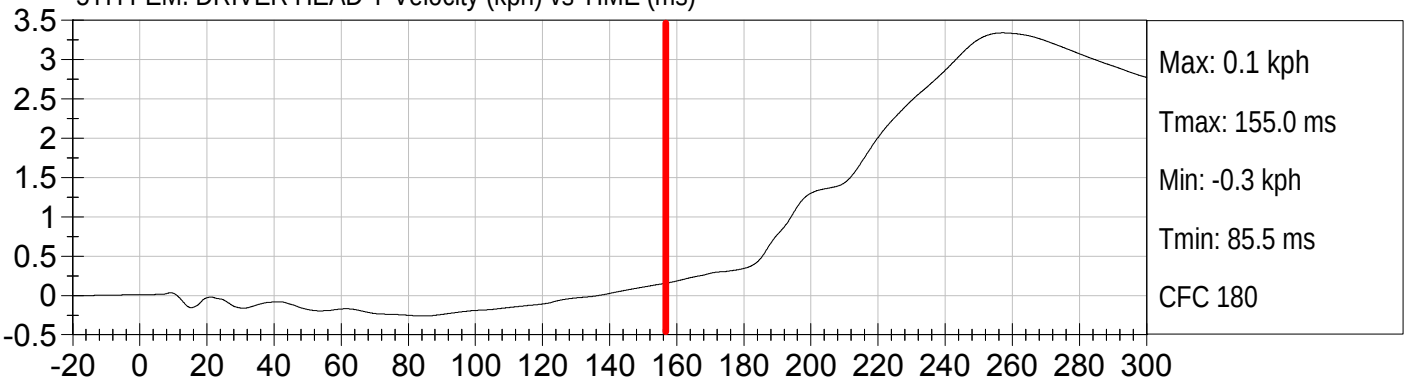
Test Date: 5/6/13
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 155ms

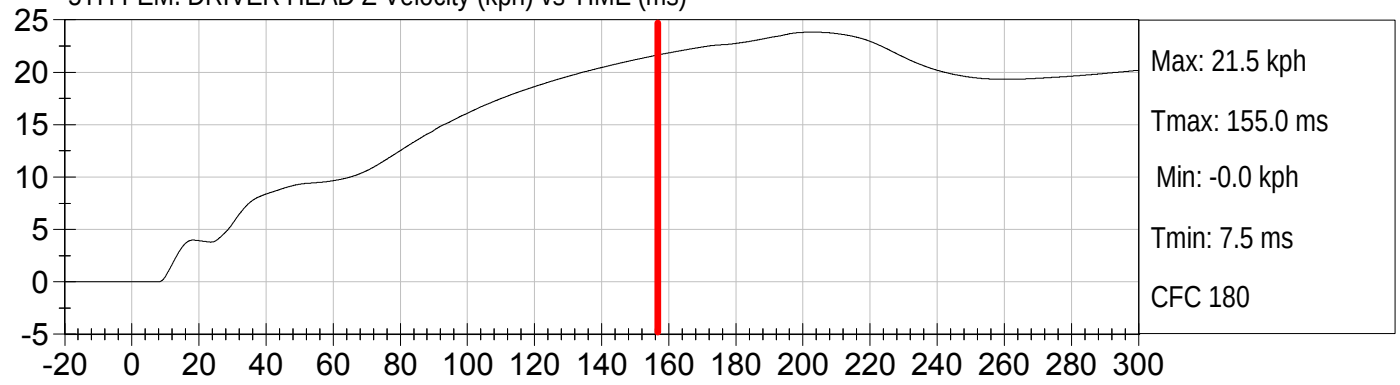
5TH FEM. DRIVER HEAD X Velocity (kph) vs TIME (ms)



5TH FEM. DRIVER HEAD Y Velocity (kph) vs TIME (ms)



5TH FEM. DRIVER HEAD Z Velocity (kph) vs TIME (ms)

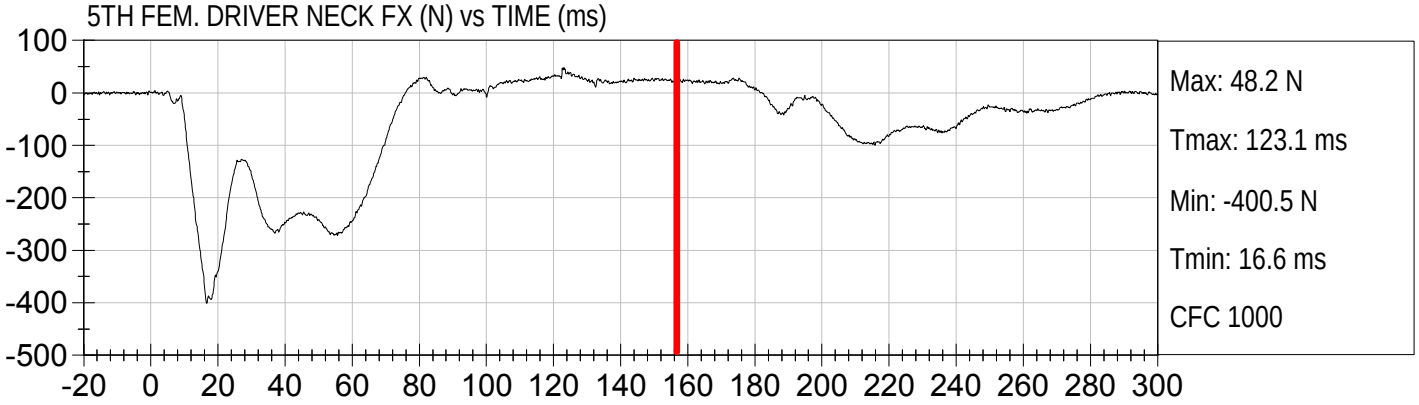


LOW RISK DEPLOYMENT
2013 Nissan Frontier (C20135202) (5th P2)

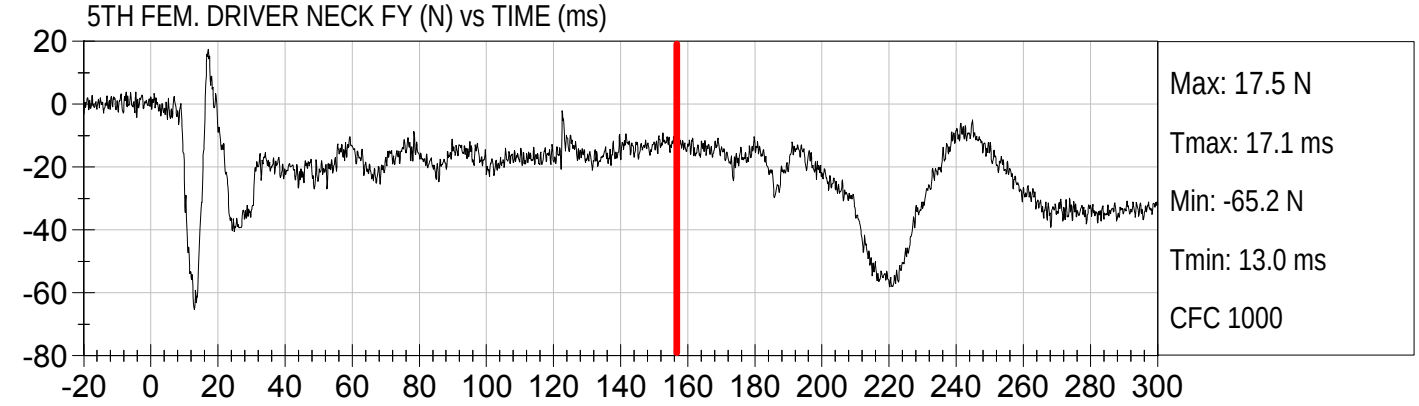
Test Date: 5/6/13
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 155ms

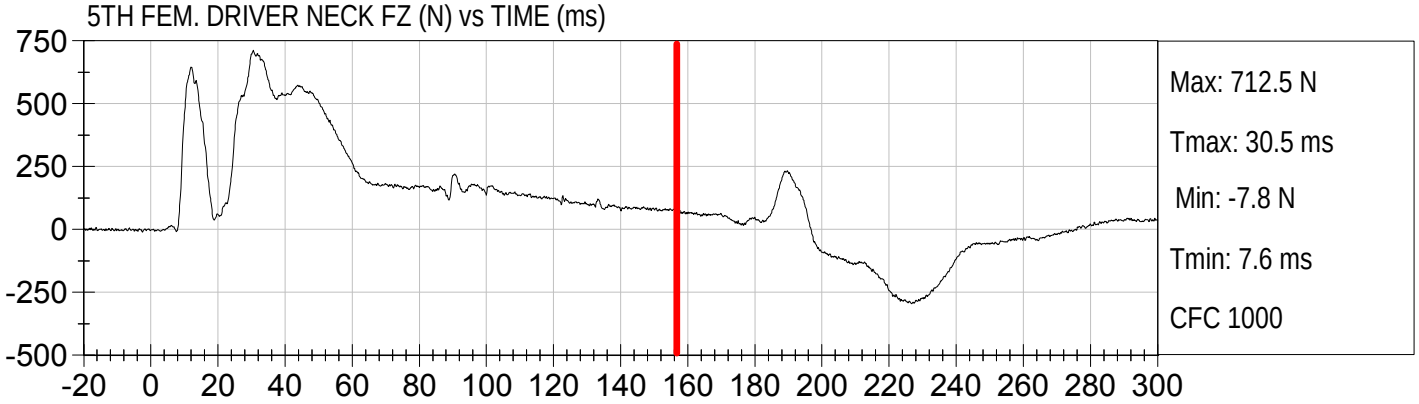
5TH FEM. DRIVER NECK FX (N) vs TIME (ms)



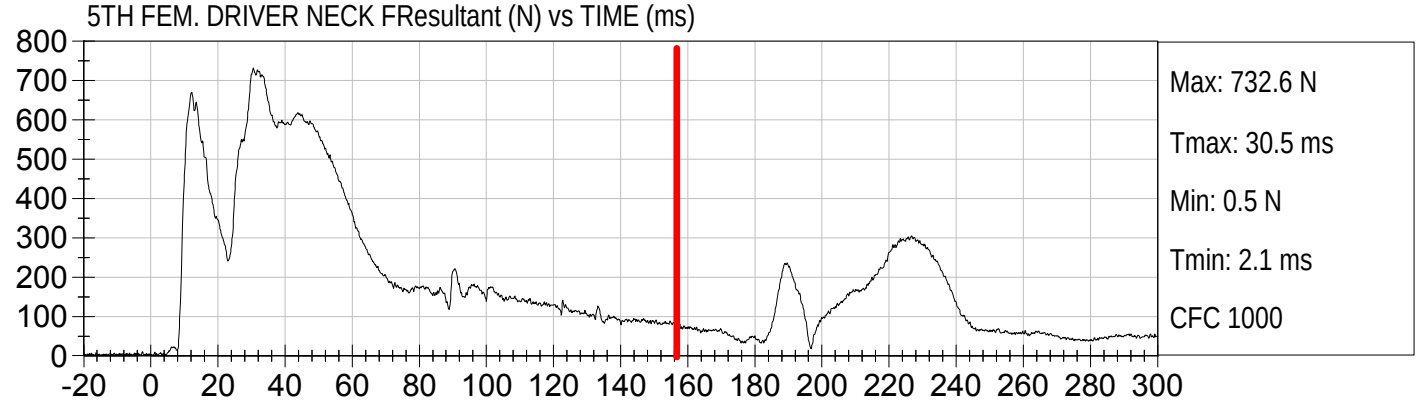
5TH FEM. DRIVER NECK FY (N) vs TIME (ms)



5TH FEM. DRIVER NECK FZ (N) vs TIME (ms)



5TH FEM. DRIVER NECK FResultant (N) vs TIME (ms)

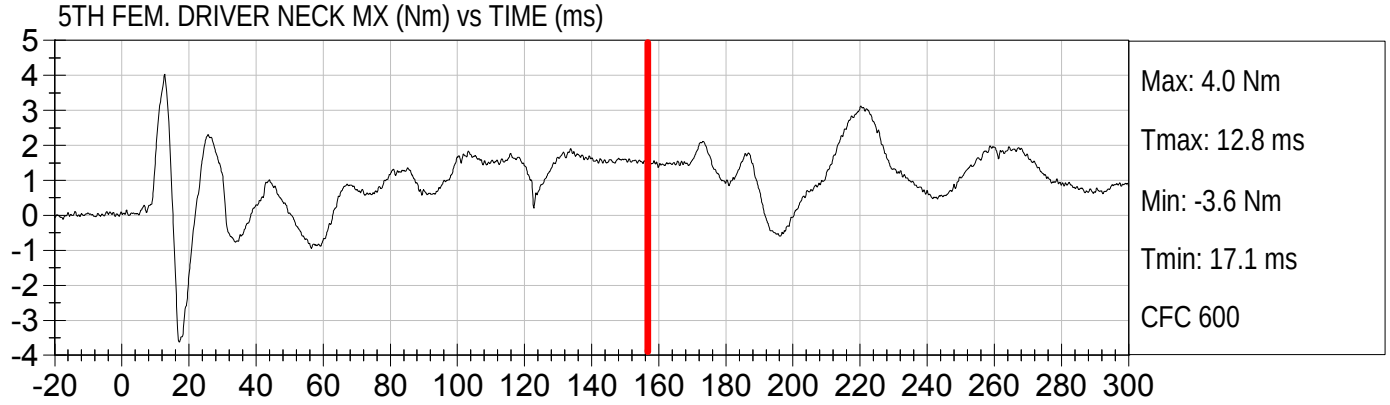


LOW RISK DEPLOYMENT
2013 Nissan Frontier (C20135202) (5th P2)

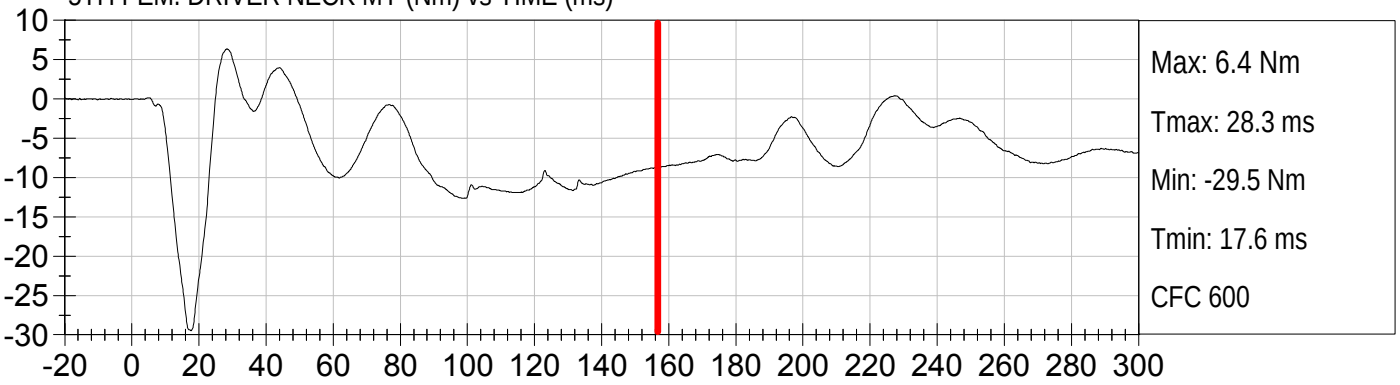
Test Date: 5/6/13
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 155ms

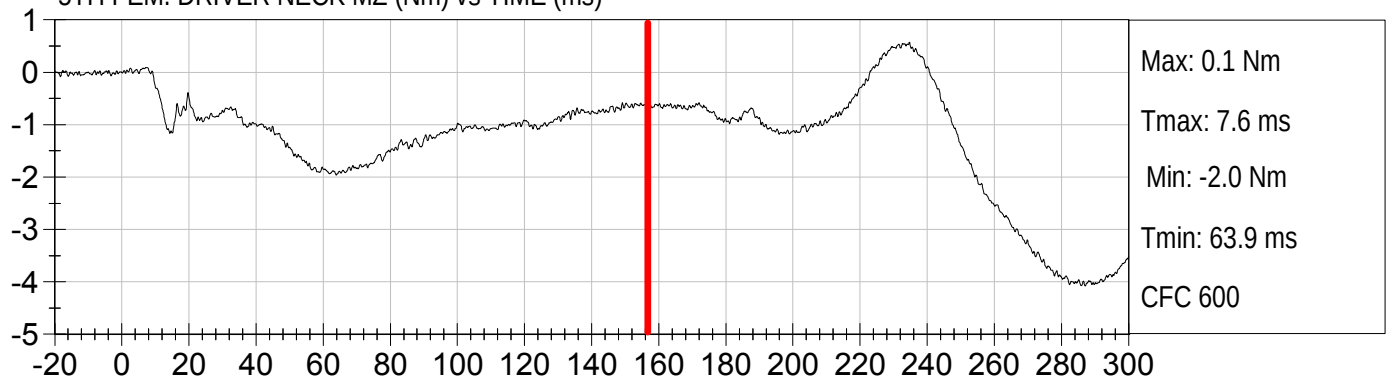
5TH FEM. DRIVER NECK MX (Nm) vs TIME (ms)



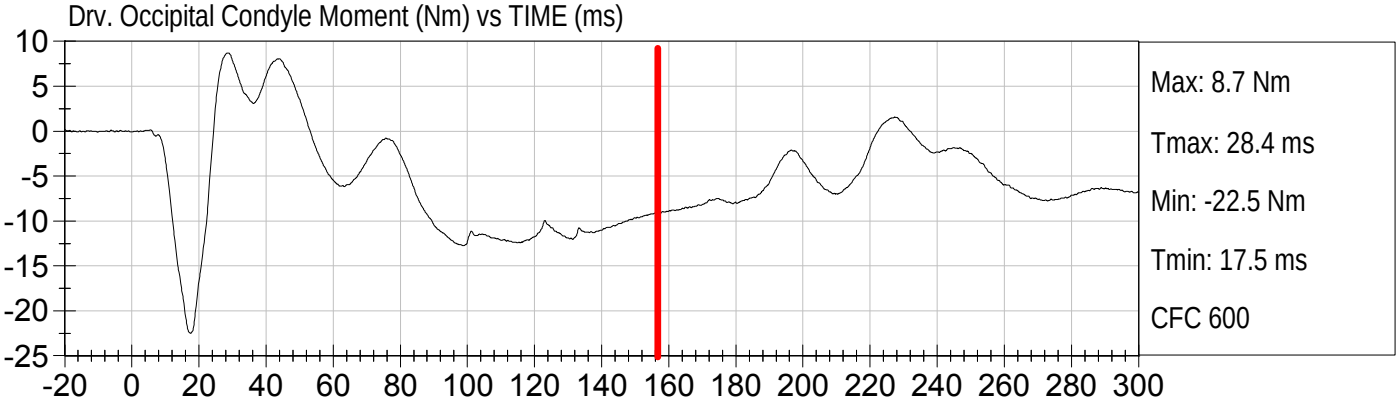
5TH FEM. DRIVER NECK MY (Nm) vs TIME (ms)



5TH FEM. DRIVER NECK MZ (Nm) vs TIME (ms)



Drv. Occipital Condyle Moment (Nm) vs TIME (ms)

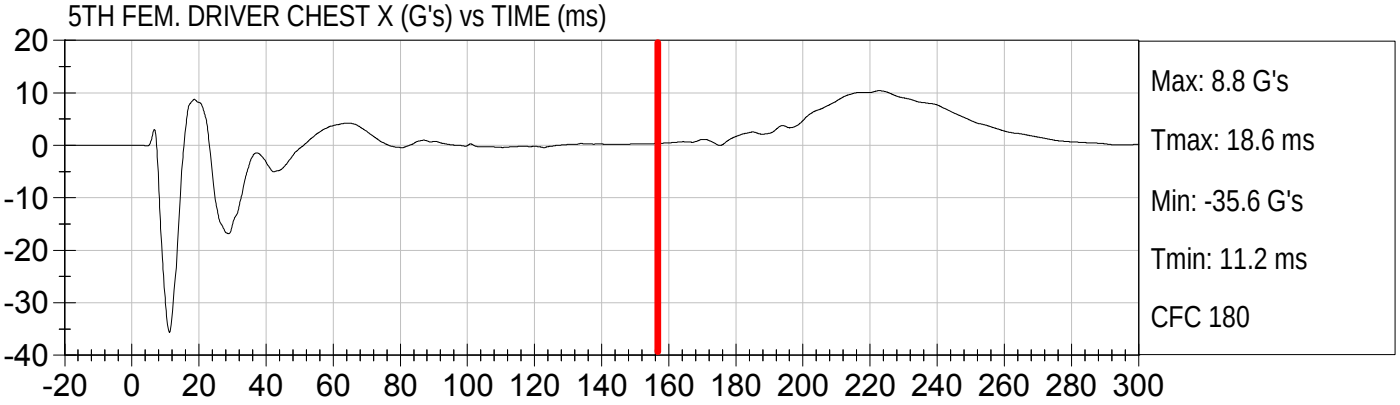


LOW RISK DEPLOYMENT
2013 Nissan Frontier (C20135202) (5th P2)

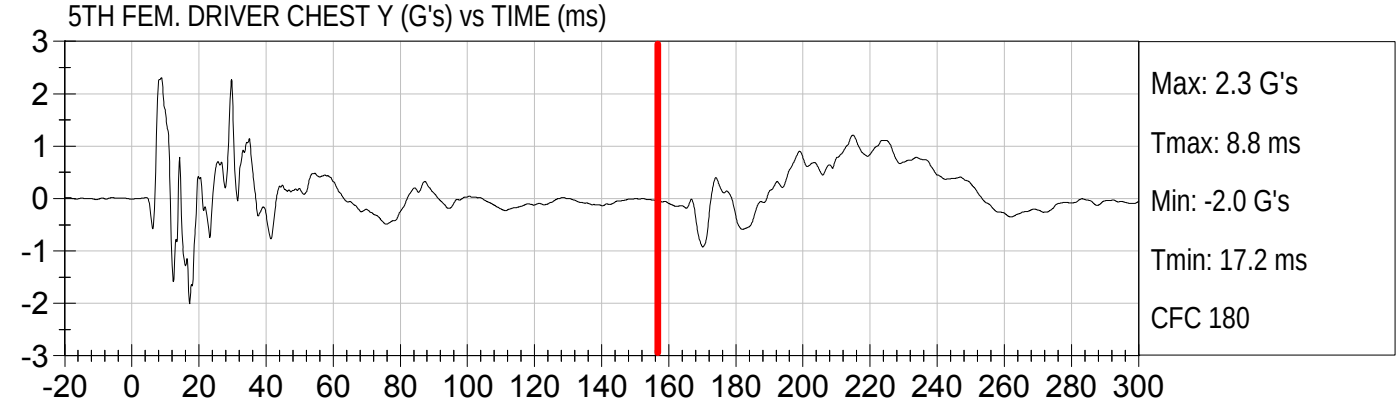
Test Date: 5/6/13
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 155ms

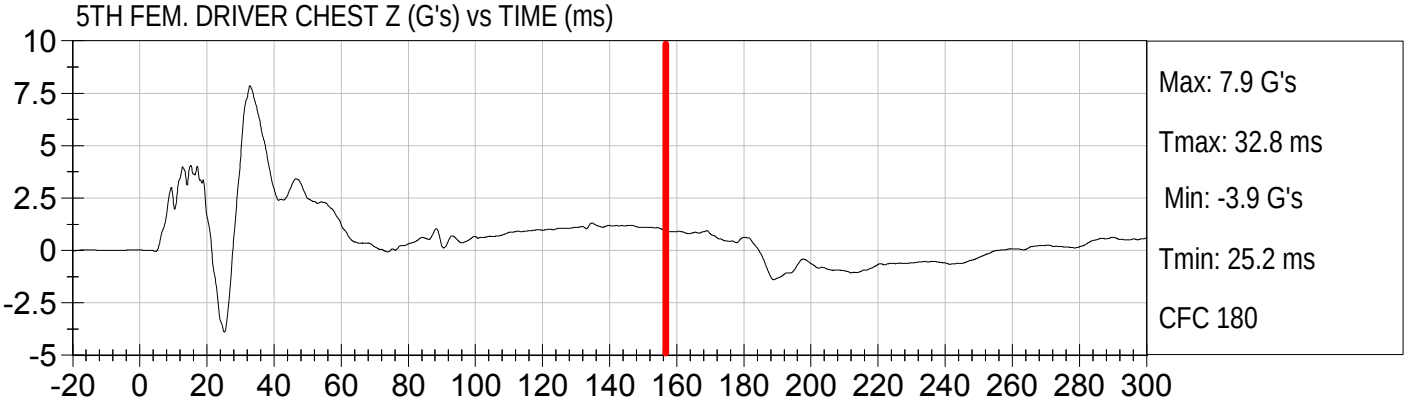
5TH FEM. DRIVER CHEST X (G's) vs TIME (ms)



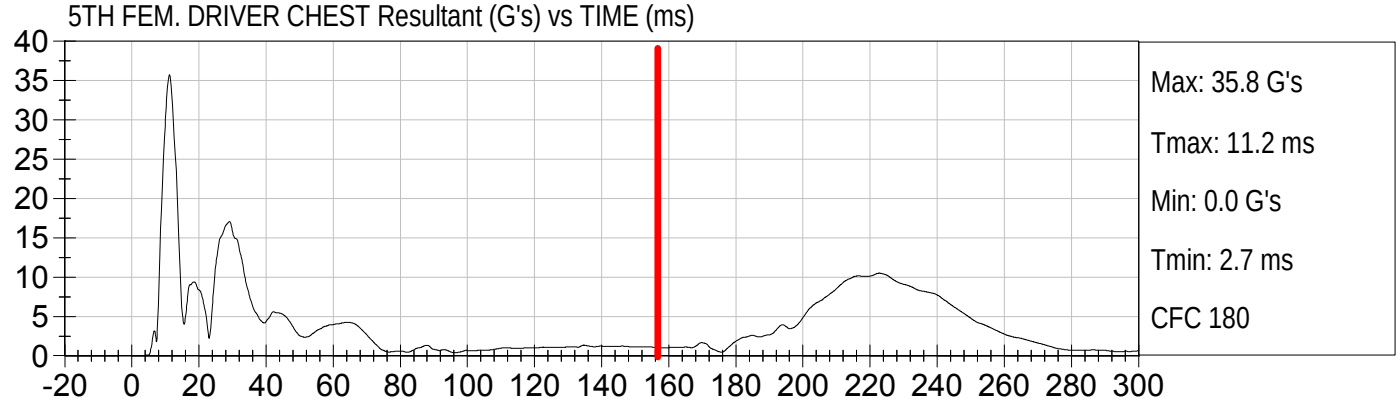
5TH FEM. DRIVER CHEST Y (G's) vs TIME (ms)



5TH FEM. DRIVER CHEST Z (G's) vs TIME (ms)



5TH FEM. DRIVER CHEST Resultant (G's) vs TIME (ms)

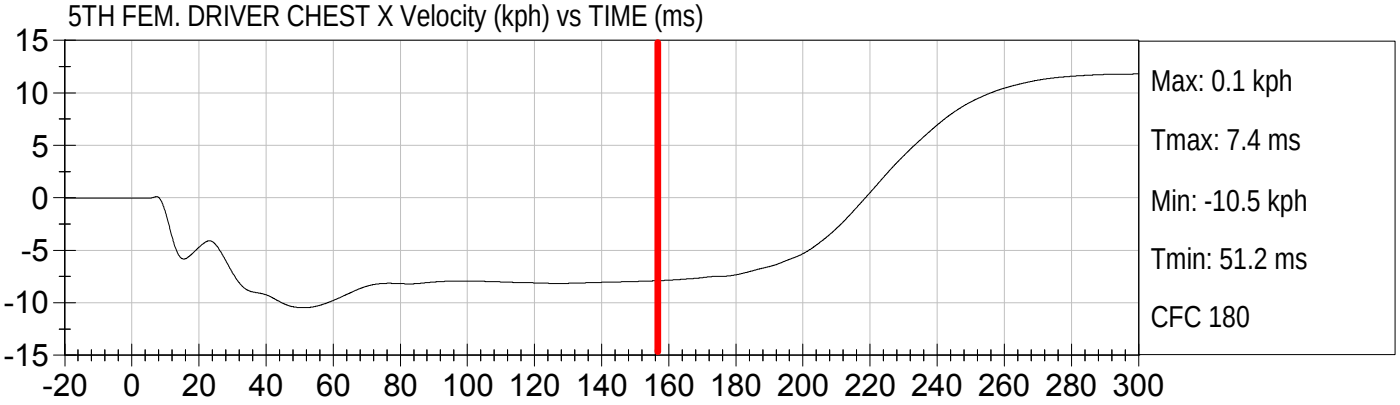


LOW RISK DEPLOYMENT
2013 Nissan Frontier (C20135202) (5th P2)

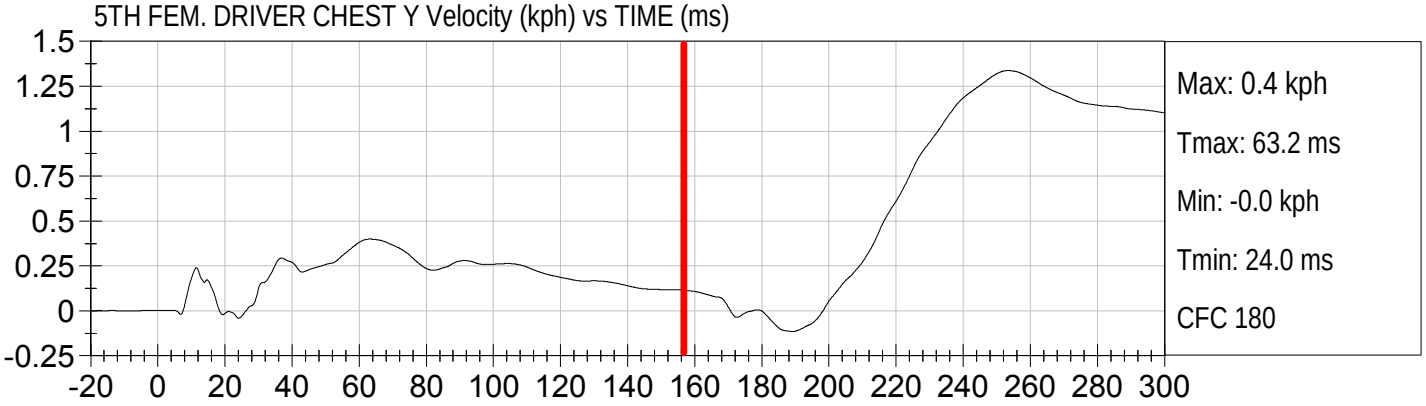
Test Date: 5/6/13
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 155ms

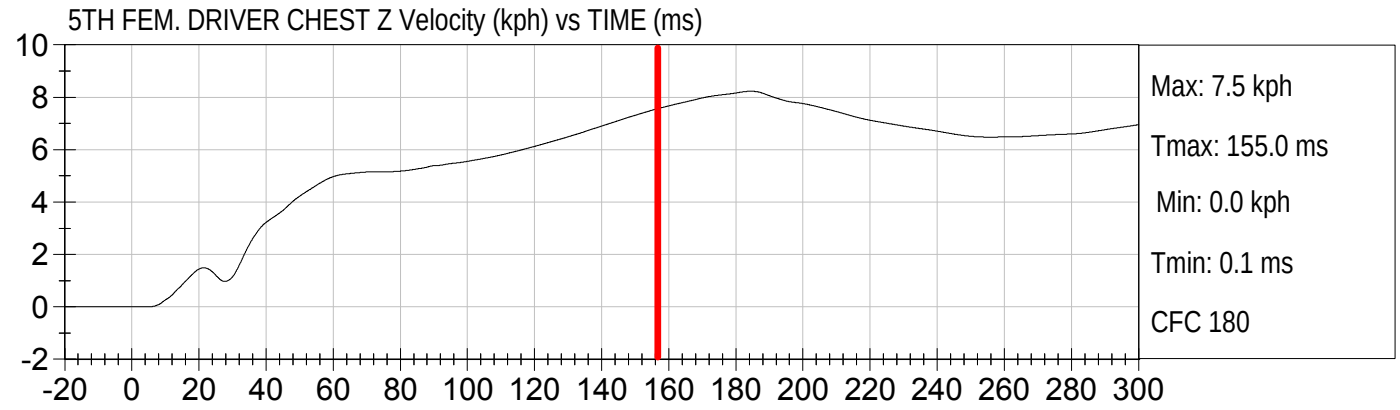
5TH FEM. DRIVER CHEST X Velocity (kph) vs TIME (ms)



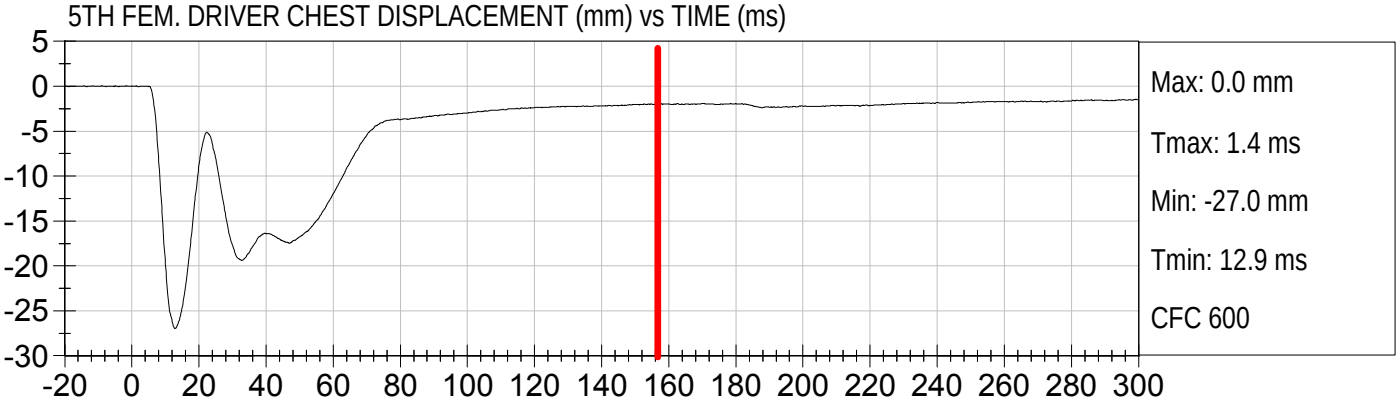
5TH FEM. DRIVER CHEST Y Velocity (kph) vs TIME (ms)



5TH FEM. DRIVER CHEST Z Velocity (kph) vs TIME (ms)



5TH FEM. DRIVER CHEST DISPLACEMENT (mm) vs TIME (ms)

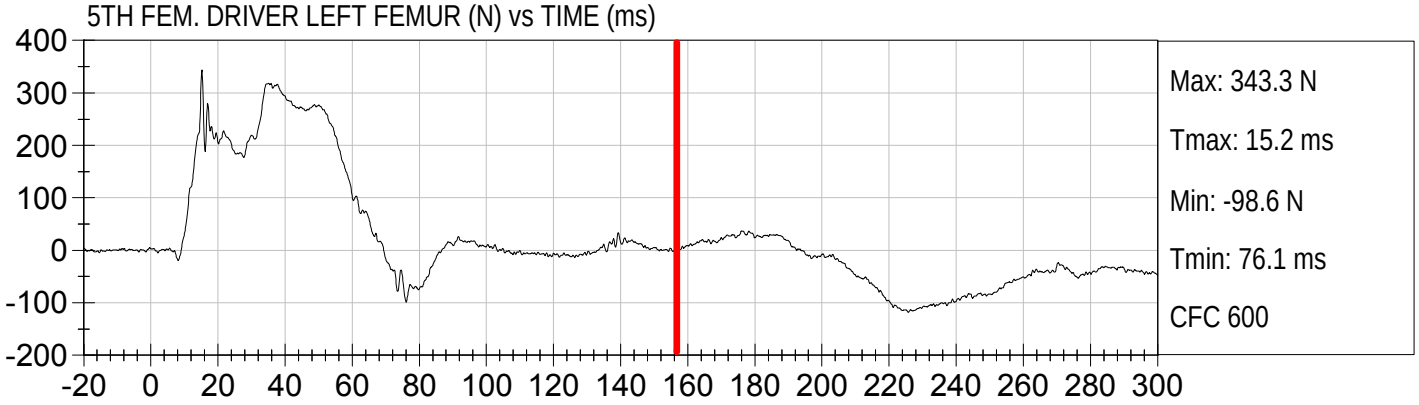


LOW RISK DEPLOYMENT
2013 Nissan Frontier (C20135202) (5th P2)

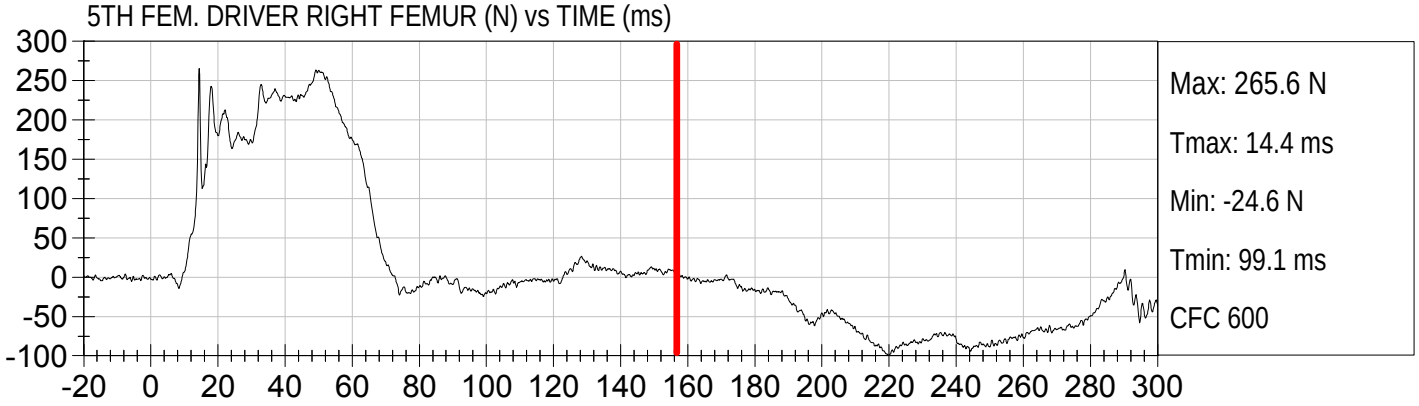
Test Date: 5/6/13
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 155ms

5TH FEM. DRIVER LEFT FEMUR (N) vs TIME (ms)



5TH FEM. DRIVER RIGHT FEMUR (N) vs TIME (ms)

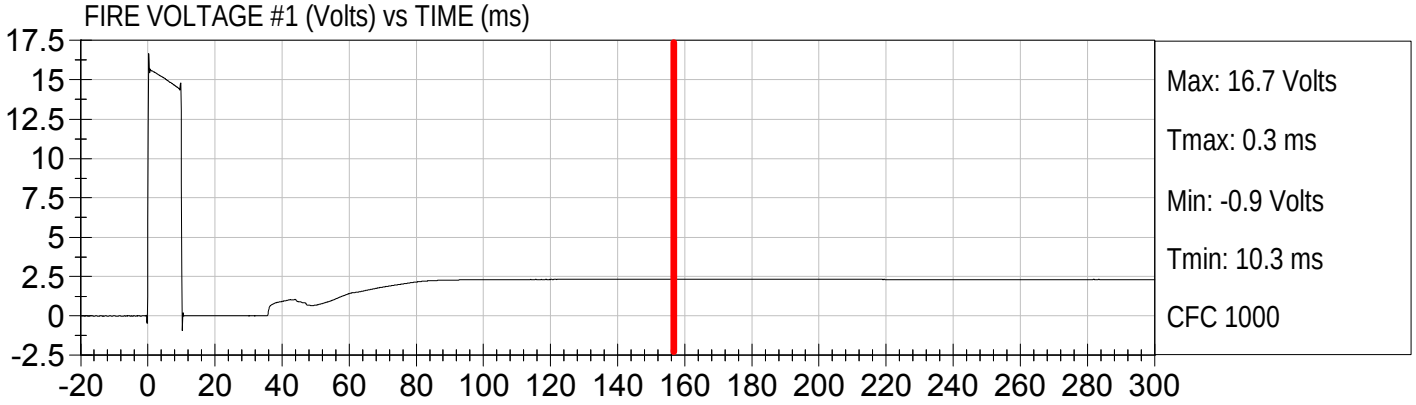


LOW RISK DEPLOYMENT
2013 Nissan Frontier (C20135202) (5th P2)

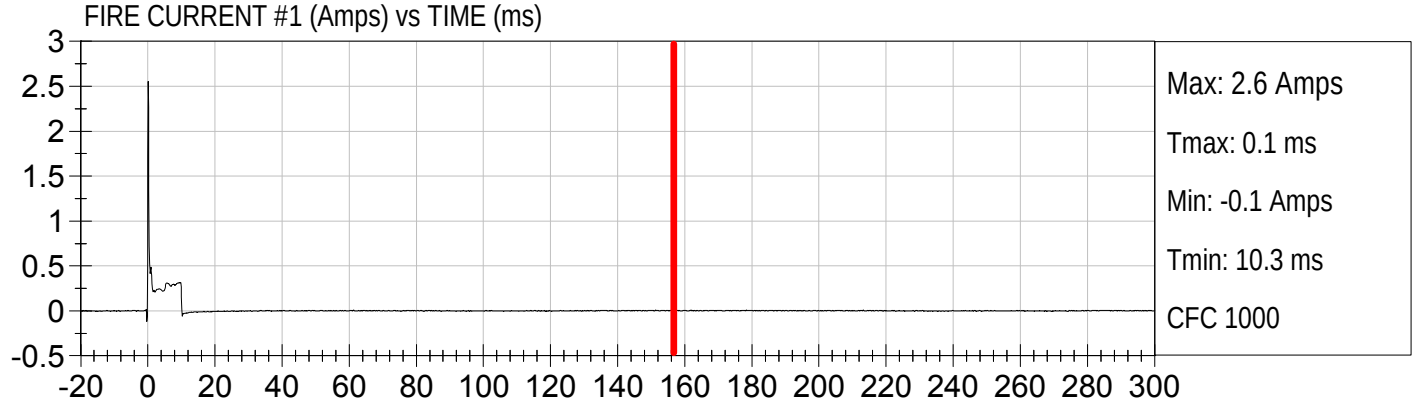
Test Date: 5/6/13
Speed: 0.0 mph (0.0 km/h)

Injury Values Calculated between 0ms and 155ms

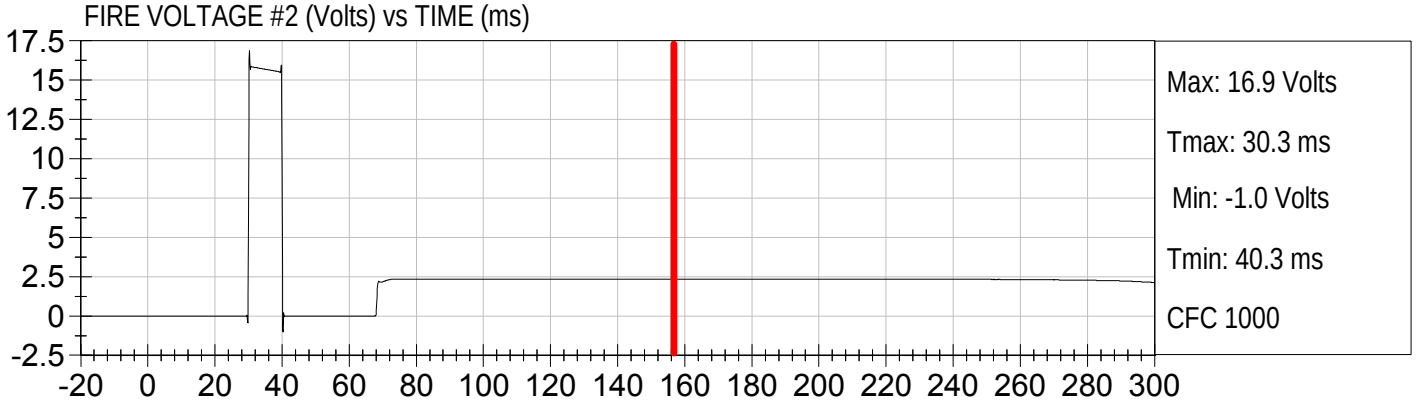
FIRE VOLTAGE #1 (Volts) vs TIME (ms)



FIRE CURRENT #1 (Amps) vs TIME (ms)



FIRE VOLTAGE #2 (Volts) vs TIME (ms)



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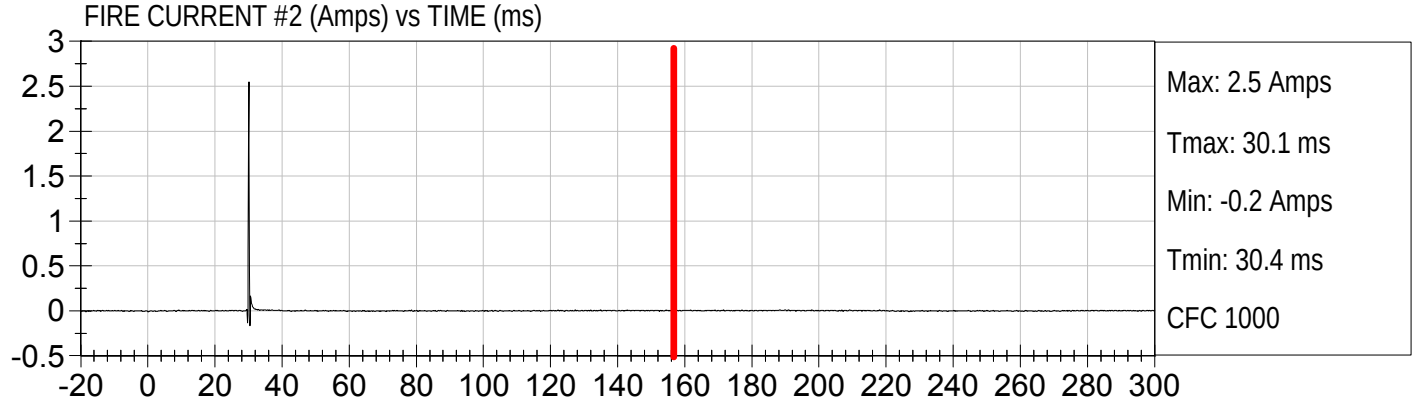
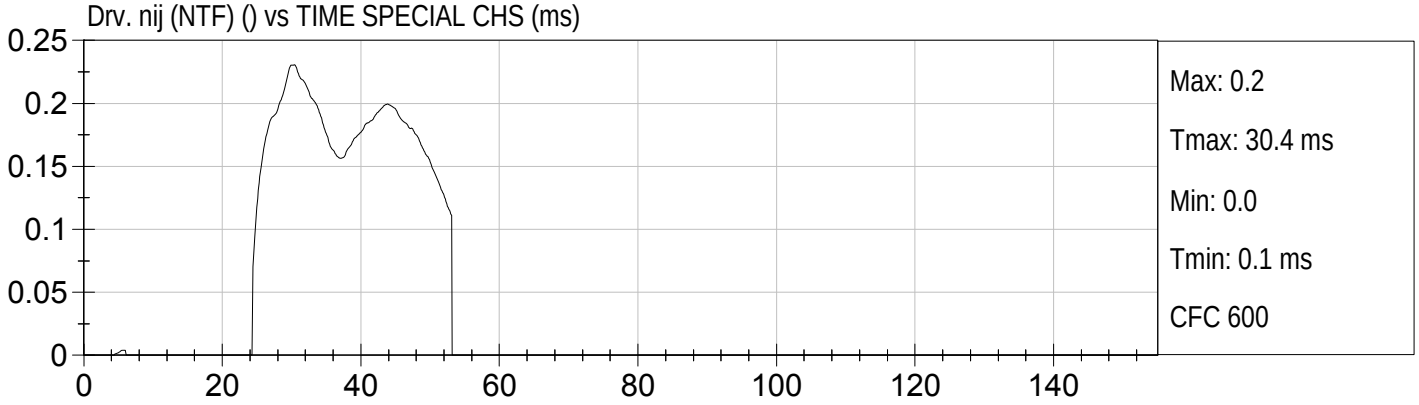


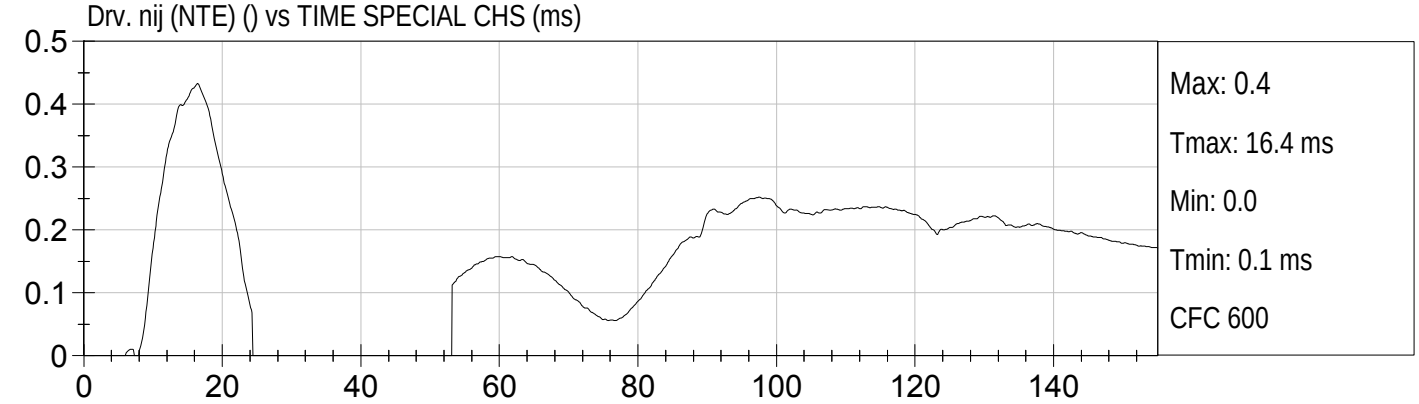
LOW RISK DEPLOYMENT
2013 Nissan Frontier (C20135202) (5th P2)

Test Date: 5/6/13
Speed: 0.0 mph (0.0 km/h)

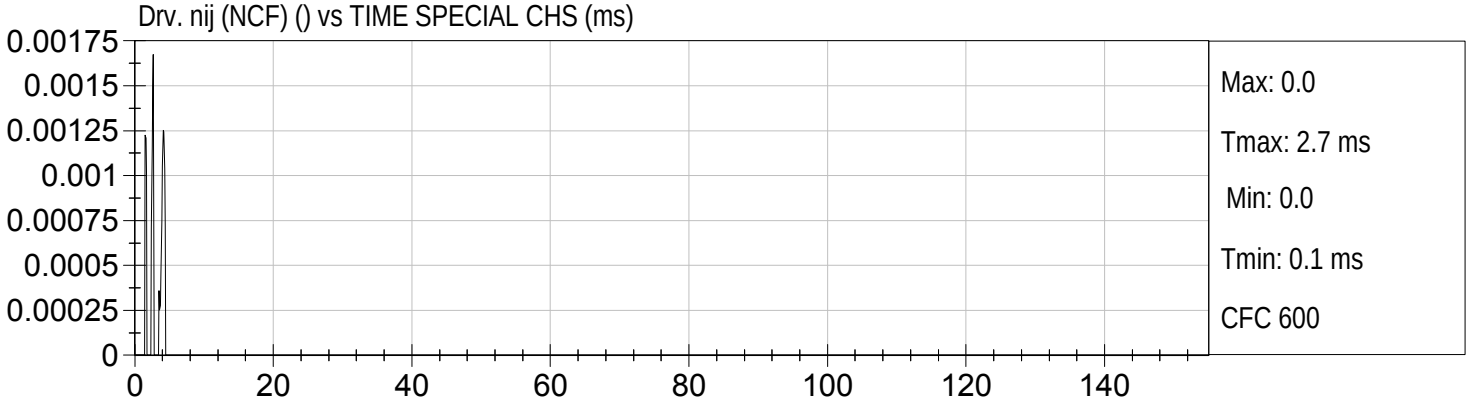
Drv. nij (NTF) () vs TIME SPECIAL CHS (ms)



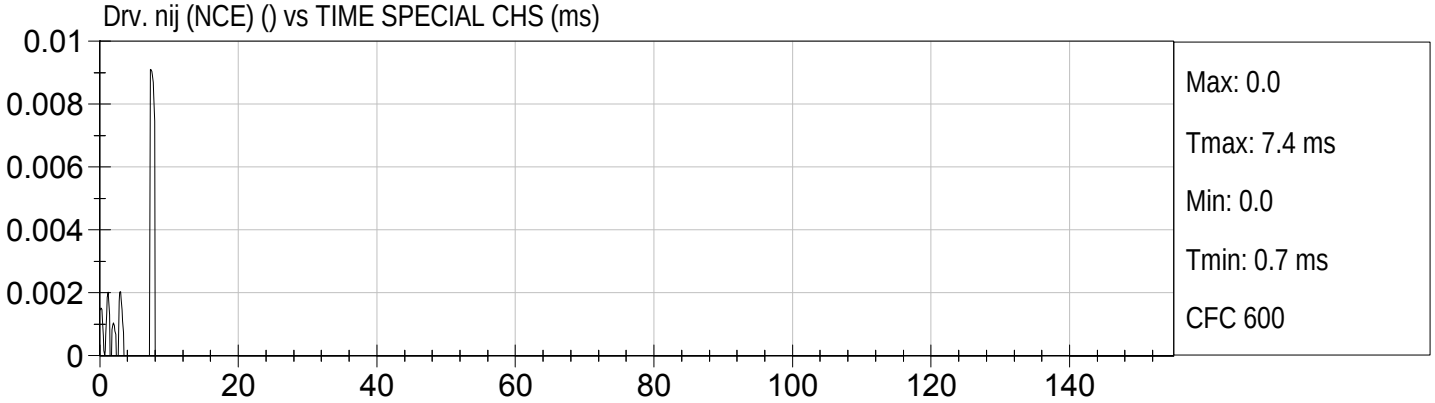
Drv. nij (NTE) () vs TIME SPECIAL CHS (ms)



Drv. nij (NCF) () vs TIME SPECIAL CHS (ms)



Drv. nij (NCE) () vs TIME SPECIAL CHS (ms)



APPENDIX C

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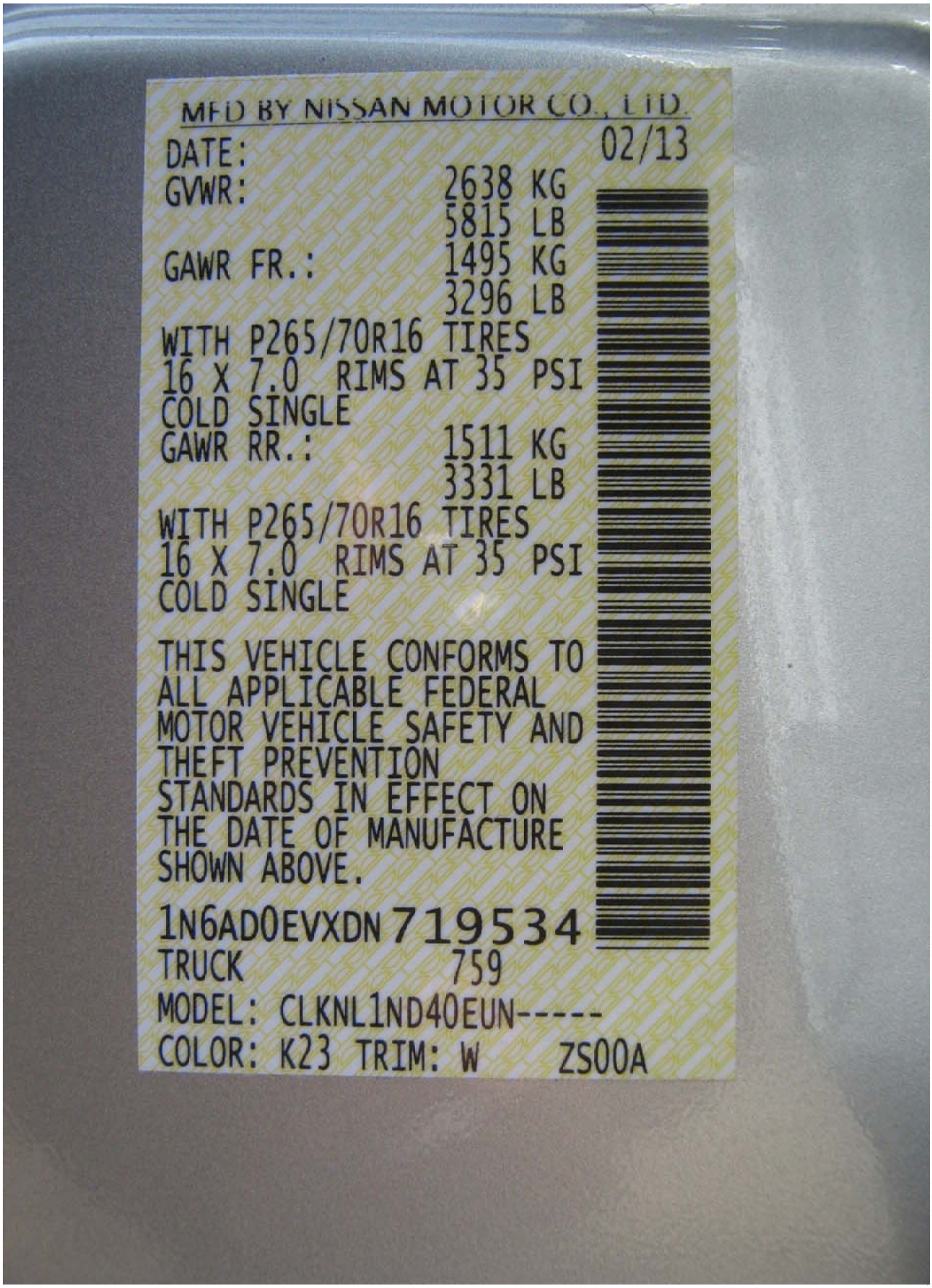


Vehicle Certification Label

Tire Placard

Pre-Test Front View of Test Vehicle

Post-Test Front View of Test Vehicle

Pre-Test Left Side View of Test Vehicle

Post-Test Left Side View of Test Vehicle

Pre-Test Right Side View of Test Vehicle

Post-Test Right Side View of Test Vehicle

Pre-Test Left Front Three-Quarter View of Test Vehicle

Post-Test Left Front Three-Quarter View of Test Vehicle

Pre-Test Right Front Three-Quarter View of Test Vehicle

Post-Test Right Front Three-Quarter View of Test Vehicle

Pre-Test Right Rear Three-Quarter View of Test Vehicle

Post-Test Right Rear Three-Quarter View of Test Vehicle

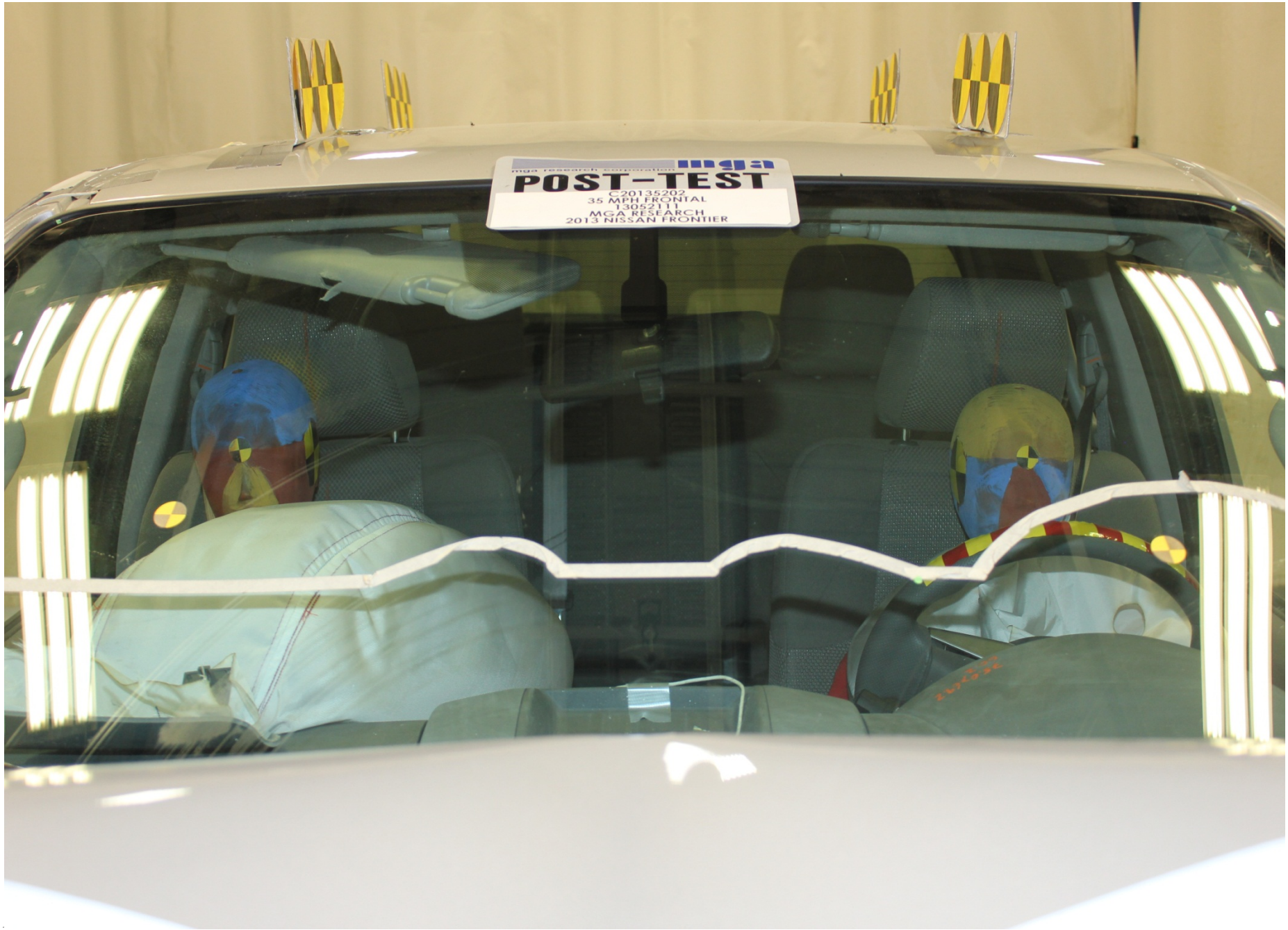
Pre-Test Left Rear Three-Quarter View of Test Vehicle

Post-Test Left Rear Three-Quarter View of Test Vehicle

Pre-Test Rear View of Test Vehicle

Post-Test Rear View of Test Vehicle

Pre-Test Windshield View



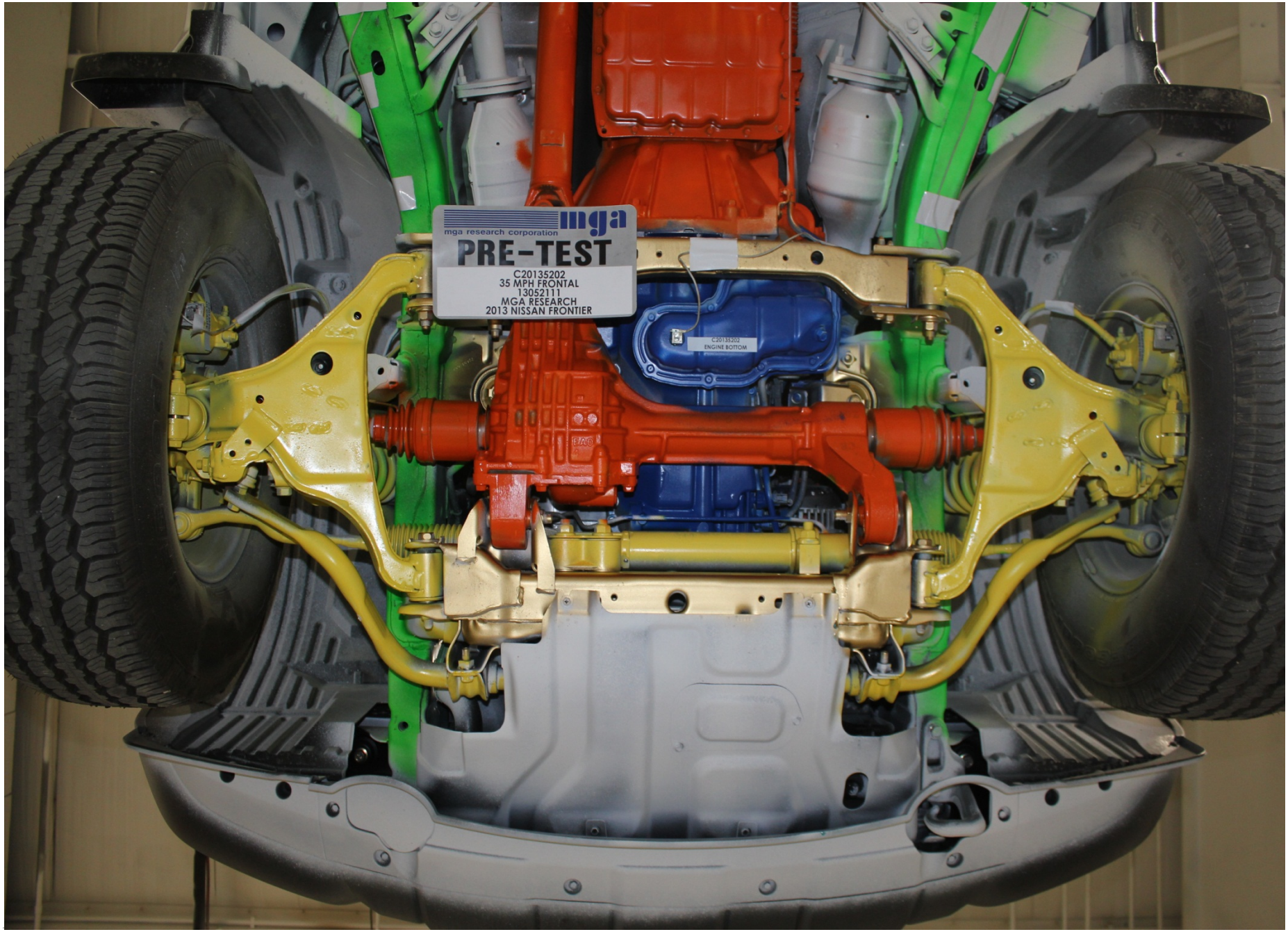
Post-Test Windshield View

Pre-Test Engine Compartment View

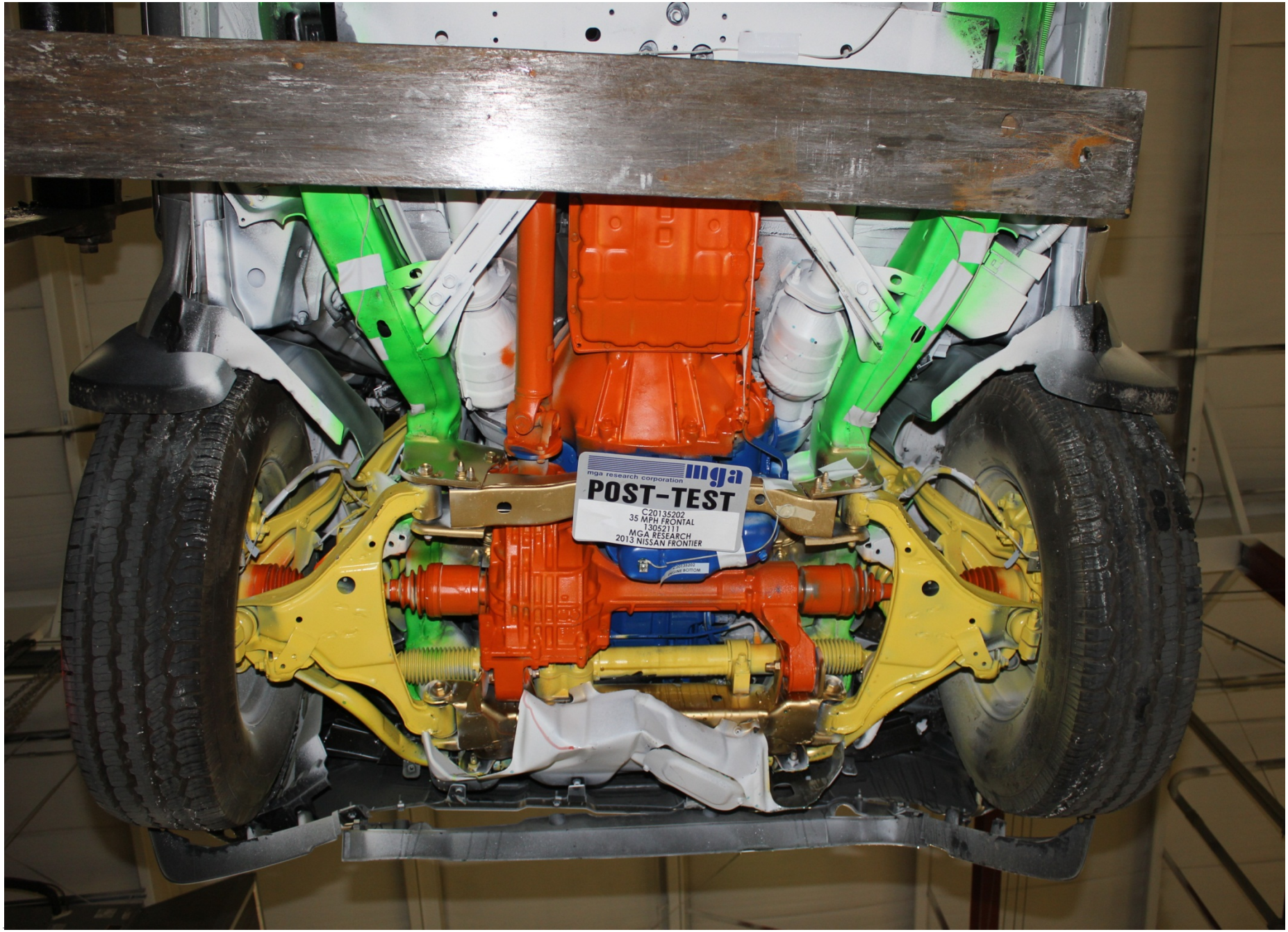
Post-Test Engine Compartment View

Pre-Test Fuel Filler Cap View

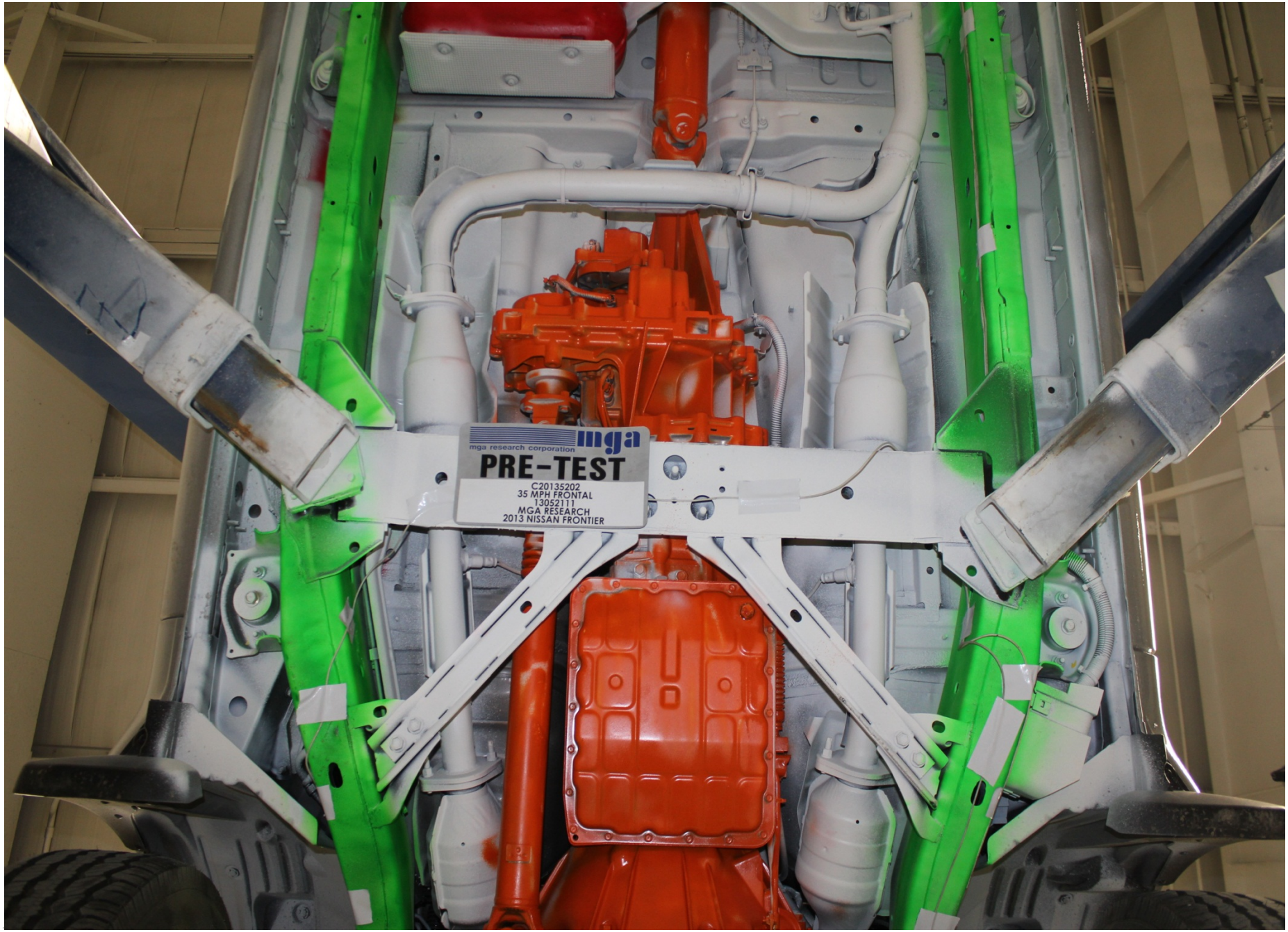
Post-Test Fuel Filler Cap View



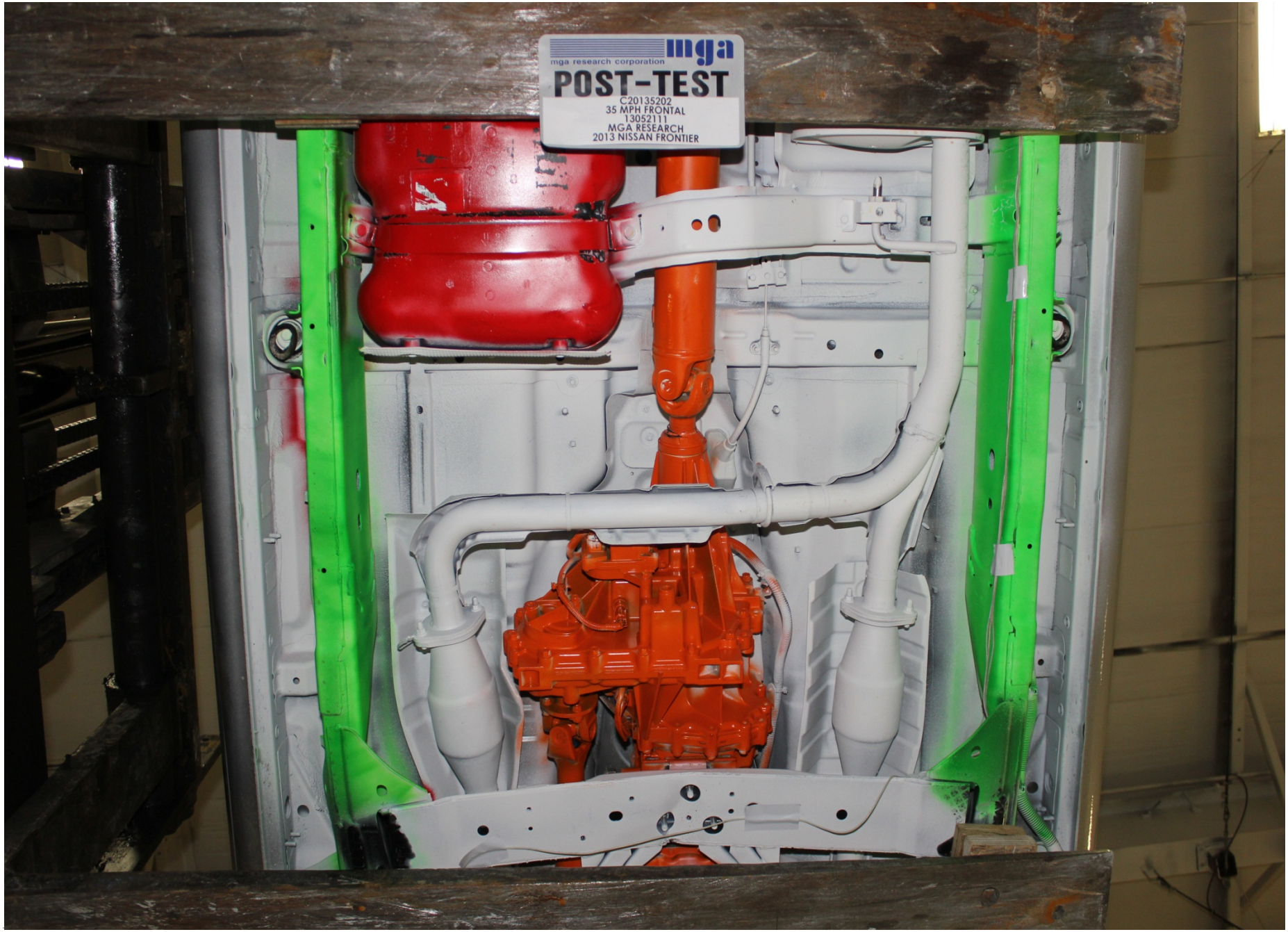
Pre-Test Front Underbody View



Post-Test Front Underbody View



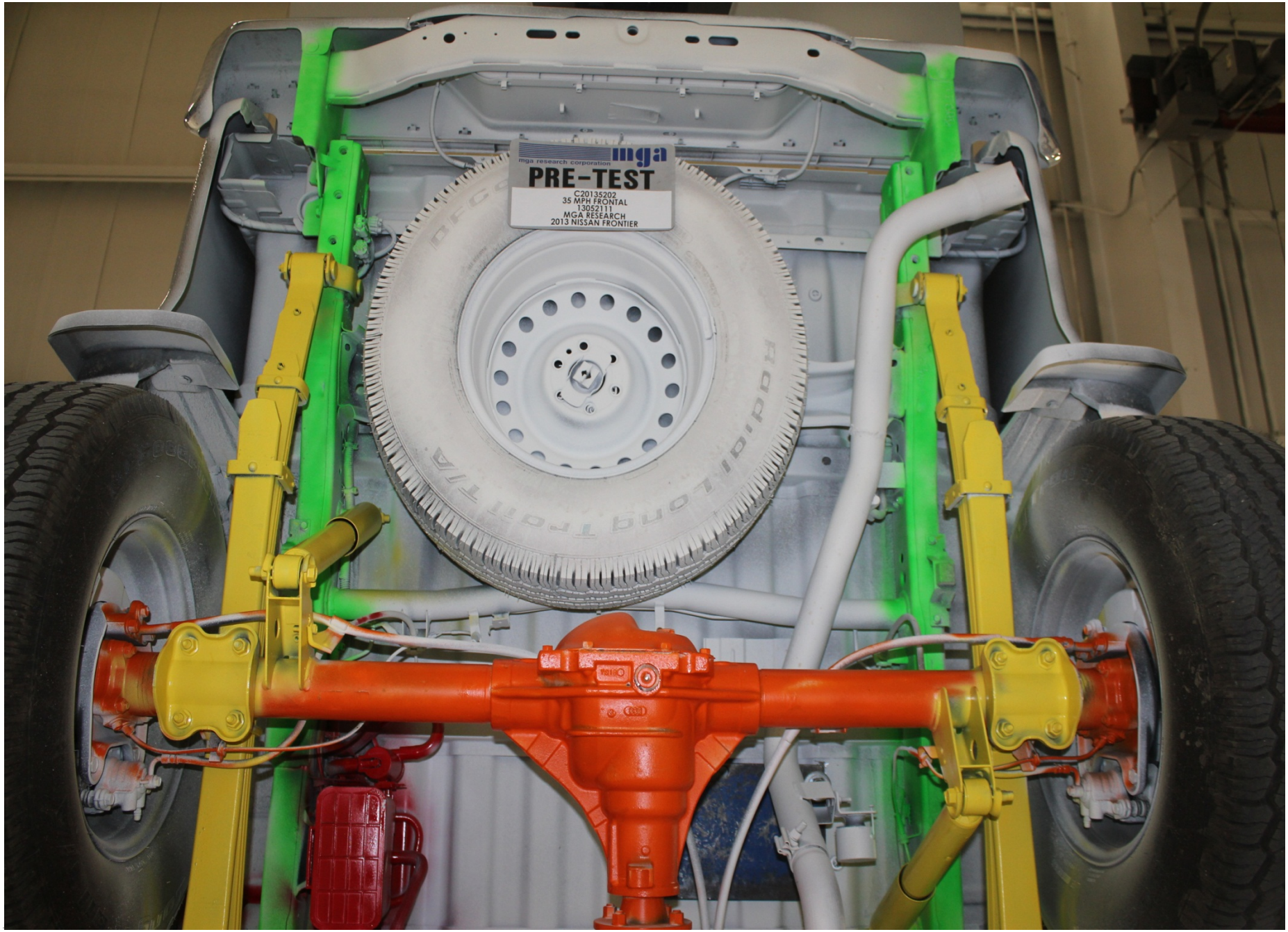
Pre-Test Mid Underbody View



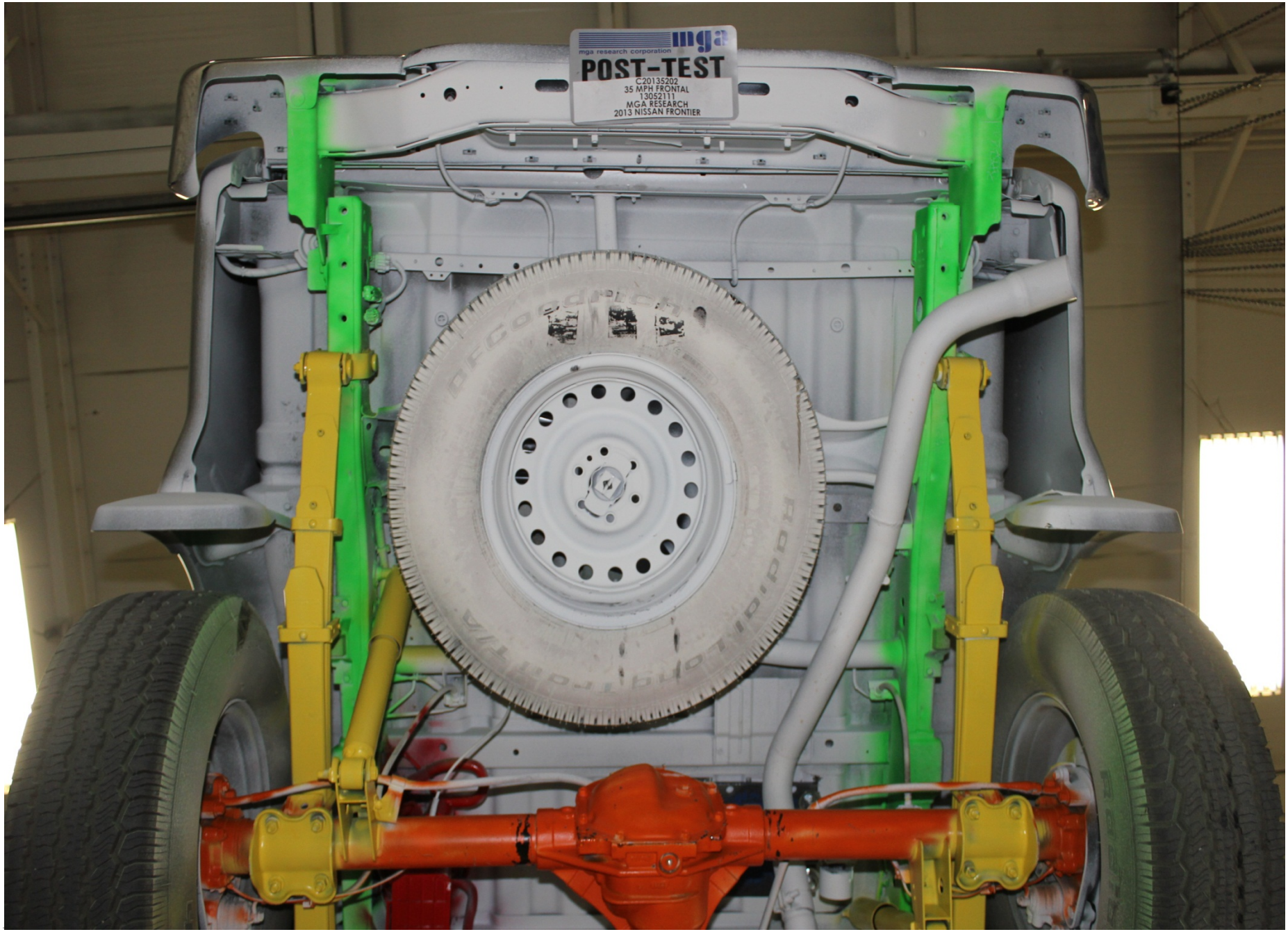
Post-Test Mid Underbody View

Pre-Test Mid Rear Underbody View

Post-Test Mid Rear Underbody View



Pre-Test Rear Underbody View



Post-Test Rear Underbody View

Pre-Test Driver Dummy Front View (head position)

Post-Test Driver Dummy Front View (head position)

Pre-Test Driver Dummy Position Left Side View

Post-Test Driver Dummy Position Left Side View

Pre-Test Driver Dummy Position Left Side View (door open)

Post-Test Driver Dummy Position Left Side View (door open)

Pre-Test Driver Dummy Seat Position

Post-Test Driver Dummy Seat Position

Pre-Test Driver Dummy Feet Position

Post-Test Driver Dummy Feet Position

Pre-Test Driver Side Knee Bolster View

Post-Test Driver Side Knee Bolster View

Post-Test Driver Dummy Airbag Contact

Post-Test Driver Dummy Head Contact (headrest)

Post-Test Driver Dummy Knee Contact

Pre-Test Passenger Dummy Front View (head position)

Post-Test Passenger Dummy Front View (head position)

Pre-Test Passenger Dummy Position Right Side View

Post-Test Passenger Dummy Position Right Side View

Pre-Test Passenger Dummy Position Right Side View (door open)

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MPH FRONTAL
13052111
MGA RESEARCH
2013 NISSAN FRONTIER

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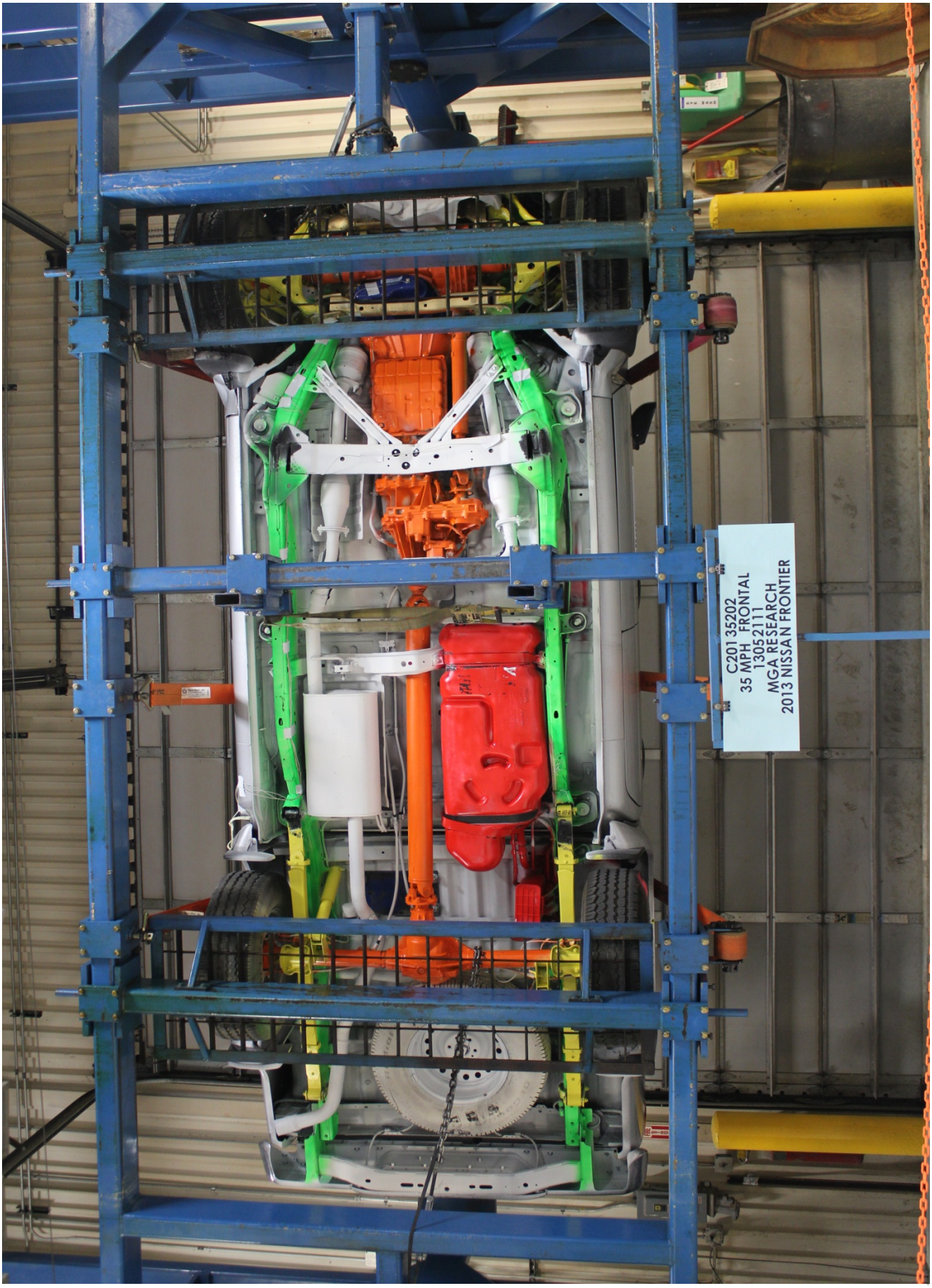
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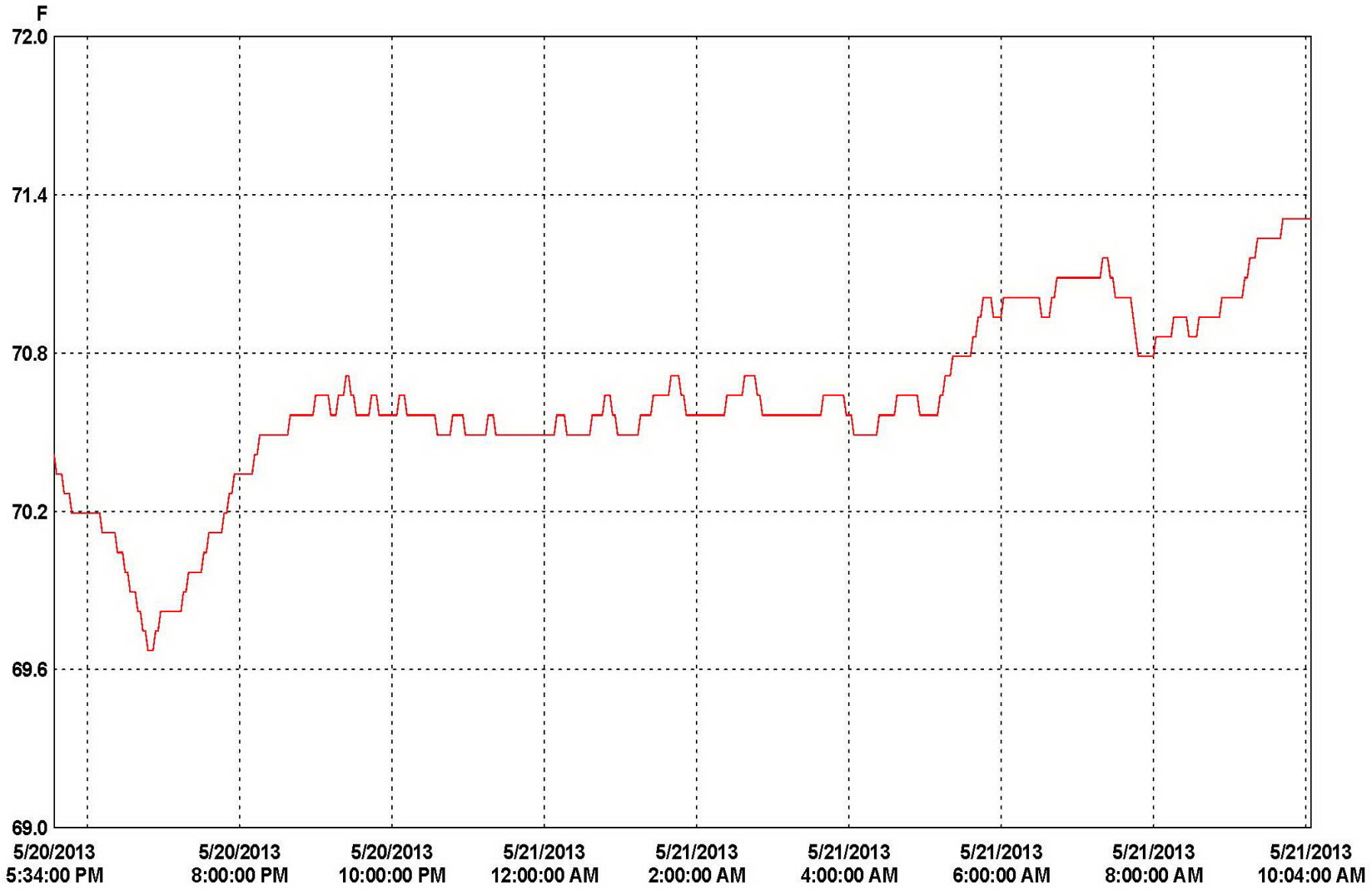

2 hours/div 16:30:00 (M/d/yyyy h:mm:ss tt) Central Time Graph file (truncated): 208 - 2013 Nissan Frontier 5-21-13.spg

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APPENDIX D

LOW RISK PHOTOGRAPHS

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Pre-Test 5th Fem. P1 Driver Dummy Left Side View

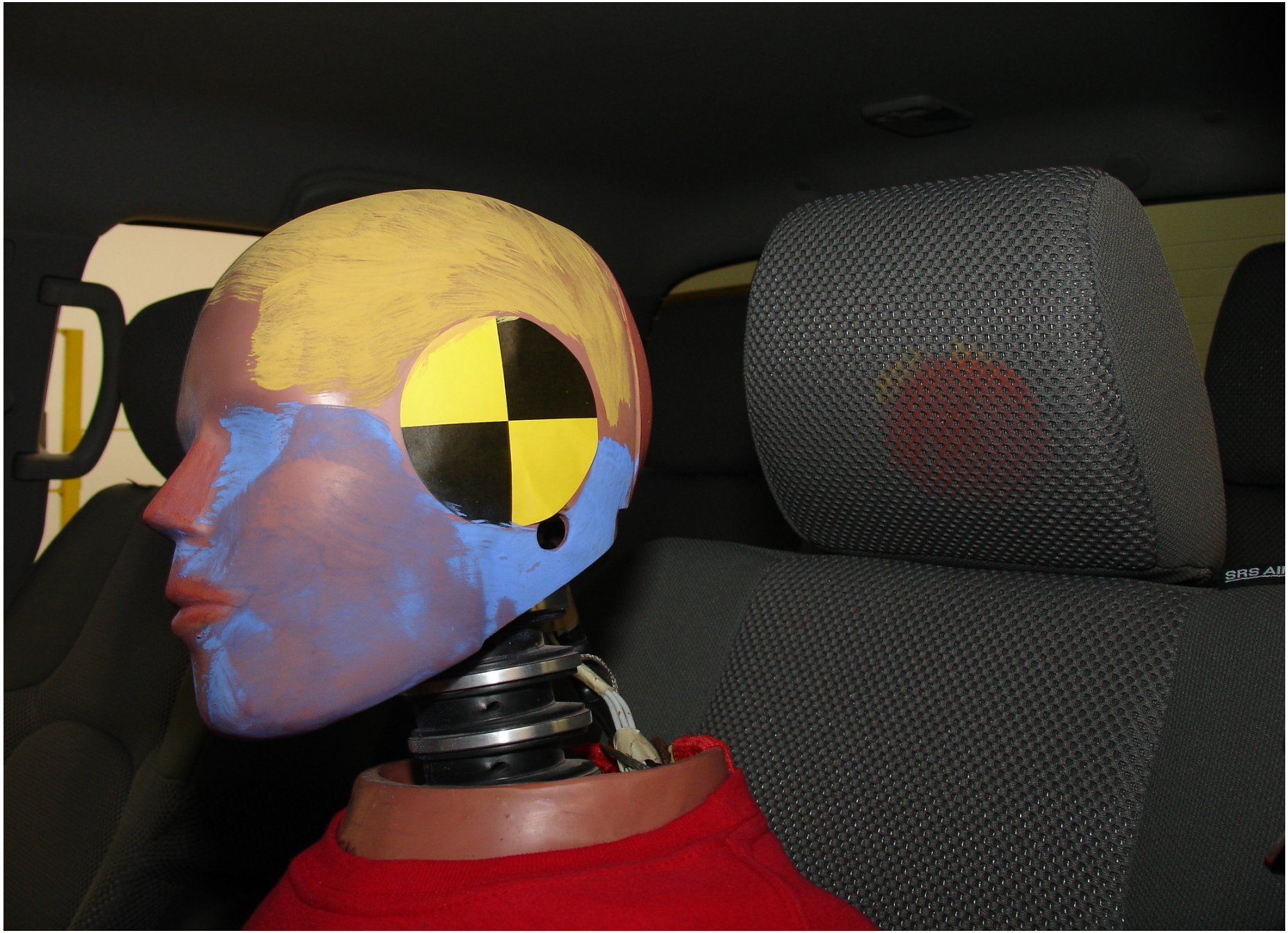
Post-Test 5th Fem. P1 Driver Dummy Left Side View

Pre-Test 5th Fem. P1 Driver Dummy Right Side View

Post-Test 5th Fem. P1 Driver Dummy Right Side View

Post-Test 5th Fem. P1 Driver Dummy Airbag Left Side View

Post-Test 5th Fem. P1 Driver Dummy Airbag Right Side View



Post-Test 5th Fem. P1 Driver Dummy Head Contact (headrest)

Pre-Test 5th Fem. P2 Driver Dummy Left Side View

Post-Test 5th Fem. P2 Driver Dummy Left Side View

Pre-Test 5th Fem. P2 Driver Dummy Right Side View

Post-Test 5th Fem. P2 Driver Dummy Right Side View

Post-Test 5th Fem. P2 Driver Dummy Airbag Left Side View

Post-Test 5th Fem. P2 Driver Dummy Airbag Right Side View

Post-Test 5th Fem. P2 Driver Dummy Head Contact (headrest)

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Angel Guard Angel Ride Car Bed Belted, Forward Seat Track

Angel Guard Angel Ride Car Bed Belted, Middle Seat Track

Angel Guard Angel Ride Car Bed Belted, Rearward Seat Track

Unbelted 5th Percentile Female Dummy Reactivation, Forward Seat Track

Cosco Arriva WBase, Belted, Rear Facing, Forward Seat Track

Cosco Arriva WBase, Belted, Rear Facing, Middle Seat Track

Cosco Arriva WBase, Belted, Rear Facing, Rearward Seat Track

Cosco Arriva WBase, Unbelted, Forward Facing, Forward Seat Track

Cosco Arriva WBase, Unbelted, Forward Facing, Middle Seat Track

Cosco Arriva WBase, Unbelted, Forward Facing, Rearward Seat Track

Cosco Arriva WBase, Unbelted, Rear Facing, Forward Seat Track

Cosco Arriva WBase, Unbelted, Rear Facing, Middle Seat Track

Cosco Arriva WBase, Unbelted, Rear Facing, Rearward Seat Track

Cosco Arriva WOut Base, Belted, Rear Facing, Forward Seat Track

Cosco Arriva WOut Base, Belted, Rear Facing, Middle Seat Track

Cosco Arriva WOut Base, Belted, Rear Facing, Rearward Seat Track

Cosco Arriva WOut Base, Unbelted, Forward Facing, Forward Seat Track

Cosco Arriva WOut Base, Unbelted, Forward Facing, Middle Seat Track

Cosco Arriva WOut Base, Unbelted, Forward Facing, Rearward Seat Track

Cosco Arriva WOut Base, Unbelted, Rear Facing, Forward Seat Track

Cosco Arriva WOut Base, Unbelted, Rear Facing, Middle Seat Track

Cosco Arriva WOut Base, Unbelted, Rear Facing, Rearward Seat Track

Unbelted 5th Percentile Female Dummy Reactivation, Rearward Seat Track

Graco Snugride WBase, Belted, Rear Facing, Forward Seat Track

Graco Snugride WBase, Belted, Rear Facing, Middle Seat Track

Graco Snugride WBase, Belted, Rear Facing, Rearward Seat Track

Graco Snugride WBase, Unbelted, Forward Facing, Forward Seat Track

Graco Snugride WBase, Unbelted, Forward Facing, Middle Seat Track

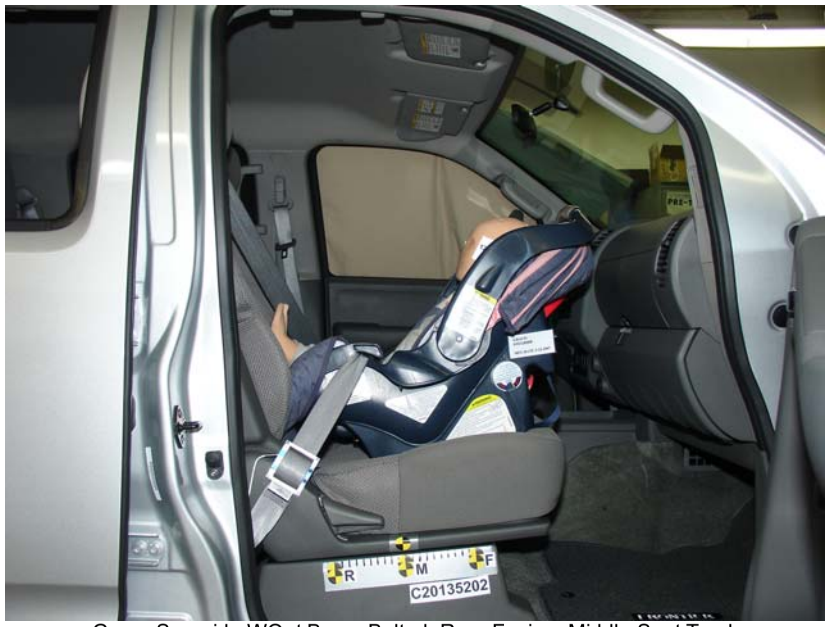
Graco Snugride WBase, Unbelted, Forward Facing, Rearward Seat Track

Graco Snugride WBase, Unbelted, Rear Facing, Forward Seat Track

Graco Snugride WBase, Unbelted, Rear Facing, Middle Seat Track

Graco Snugride WBase, Unbelted, Rear Facing, Rearward Seat Track

Graco Snugride WOut Base, Belted, Rear Facing, Forward Seat Track



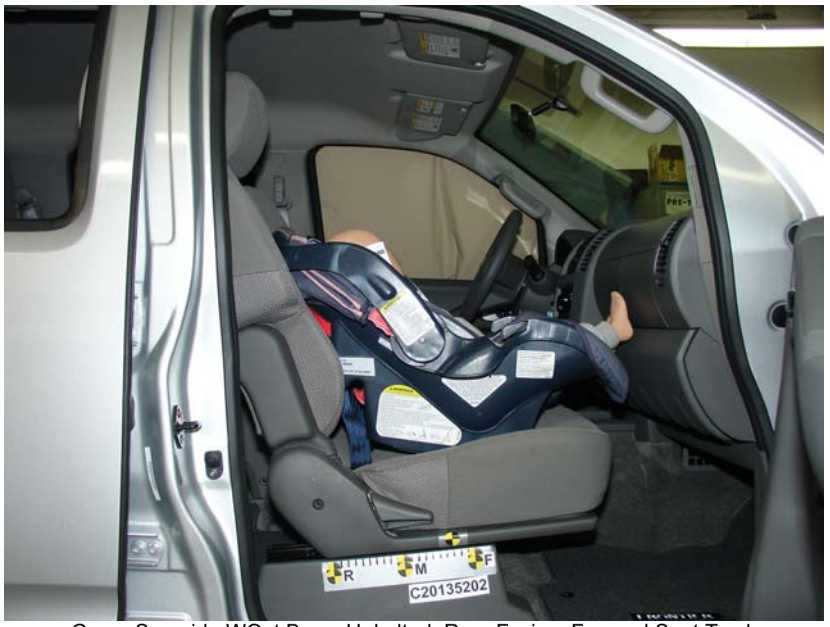
Graco Snugride WOut Base, Belted, Rear Facing, Middle Seat Track

Graco Snugride WOut Base, Belted, Rear Facing, Rearward Seat Track

Graco Snugride WOut Base, Unbelted, Forward Facing, Forward Seat Track

Graco Snugride WOut Base, Unbelted, Forward Facing, Middle Seat Track

Graco Snugride WOut Base, Unbelted, Forward Facing, Rearward Seat Track



Graco Snugride WOut Base, Unbelted, Rear Facing, Forward Seat Track

Graco Snugride WOut Base, Unbelted, Rear Facing, Middle Seat Track

Graco Snugride WOut Base, Unbelted, Rear Facing, Rearward Seat Track

Unbelted 5th Percentile Female Dummy Reactivation, Middle Seat Track

Peg Perego Viaggio WBase, Belted, Rear Facing, Forward Seat Track

Peg Perego Viaggio WBase, Belted, Rear Facing, Middle Seat Track

Peg Perego Viaggio WBase, Belted, Rear Facing, Rearward Seat Track

Peg Perego Viaggio WBase, Unbelted, Forward Facing, Forward Seat Track

Peg Perego Viaggio WBase, Unbelted, Forward Facing, Middle Seat Track

Peg Perego Viaggio WBase, Unbelted, Forward Facing, Rearward Seat Track

Peg Perego Viaggio WBase, Unbelted, Rear Facing, Forward Seat Track

Peg Perego Viaggio WBase, Unbelted, Rear Facing, Middle Seat Track

Peg Perego Viaggio WBase, Unbelted, Rear Facing, Rearward Seat Track

Peg Perego Viaggio WOut Base, Belted, Rear Facing, Forward Seat Track

Peg Perego Viaggio WOut Base, Belted, Rear Facing, Middle Seat Track

Peg Perego Viaggio WOut Base, Belted, Rear Facing, Rearward Seat Track

Peg Perego Viaggio WOut Base, Unbelted, Forward Facing, Forward Seat Track

Peg Perego Viaggio WOut Base, Unbelted, Forward Facing, Middle Seat Track

Peg Perego Viaggio WOut Base, Unbelted, Forward Facing, Rearward Seat Track

Peg Perego Viaggio WOut Base, Unbelted, Rear Facing, Forward Seat Track

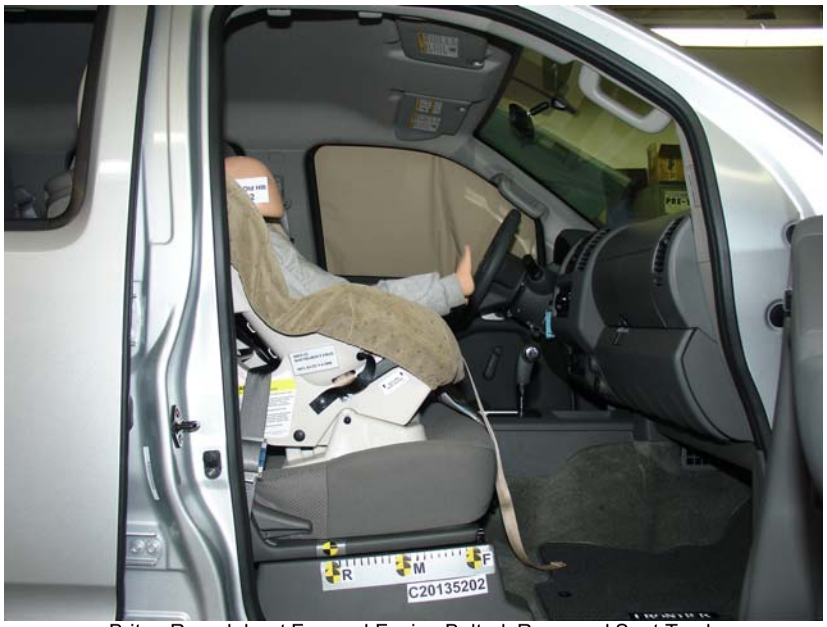
Peg Perego Viaggio WOut Base, Unbelted, Rear Facing, Middle Seat Track

Peg Perego Viaggio WOut Base, Unbelted, Rear Facing, Rearward Seat Track

Unbelted 5th Percentile Female Dummy Reactivation, Forward Seat Track

Britax Roundabout Forward Facing Belted, Forward Seat Track

Britax Roundabout Forward Facing Belted, Middle Seat Track



Britax Roundabout Forward Facing Belted, Rearward Seat Track

Britax Roundabout Forward Facing Unbelted, Forward Seat Track

Britax Roundabout Forward Facing Unbelted, Middle Seat Track

Britax Roundabout Forward Facing Unbelted, Rearward Seat Track

Britax Roundabout Rear Facing Belted, Forward Seat Track

Britax Roundabout Rear Facing Belted, Middle Seat Track

Britax Roundabout Rear Facing Belted, Rearward Seat Track

Britax Roundabout Rear Facing Unbelted, Forward Seat Track

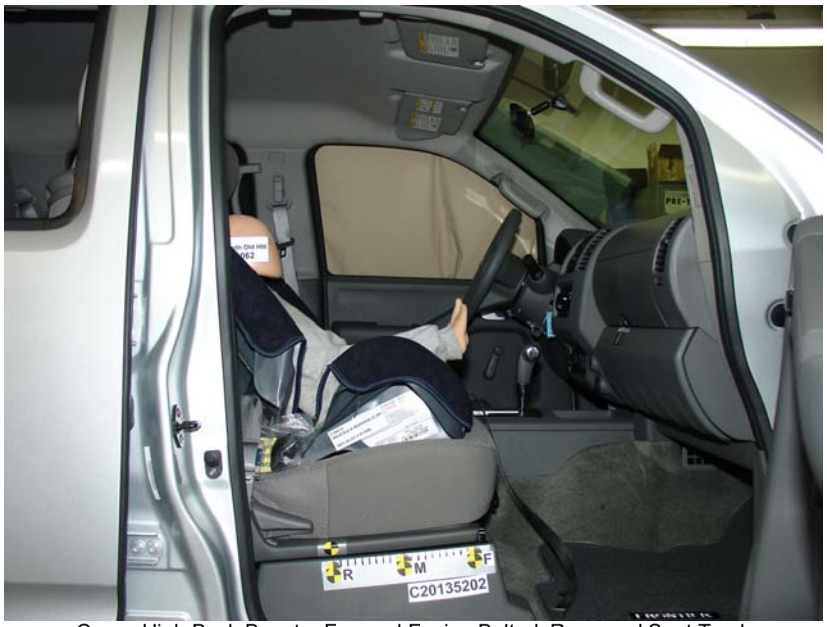
Britax Roundabout Rear Facing Unbelted, Middle Seat Track

Britax Roundabout Rear Facing Unbelted, Rearward Seat Track

Unbelted 5th Percentile Female Representative Reactivation, Forward Seat Track

Cosco High Back Booster Forward Facing Belted, Forward Seat Track

Cosco High Back Booster Forward Facing Belted, Middle Seat Track

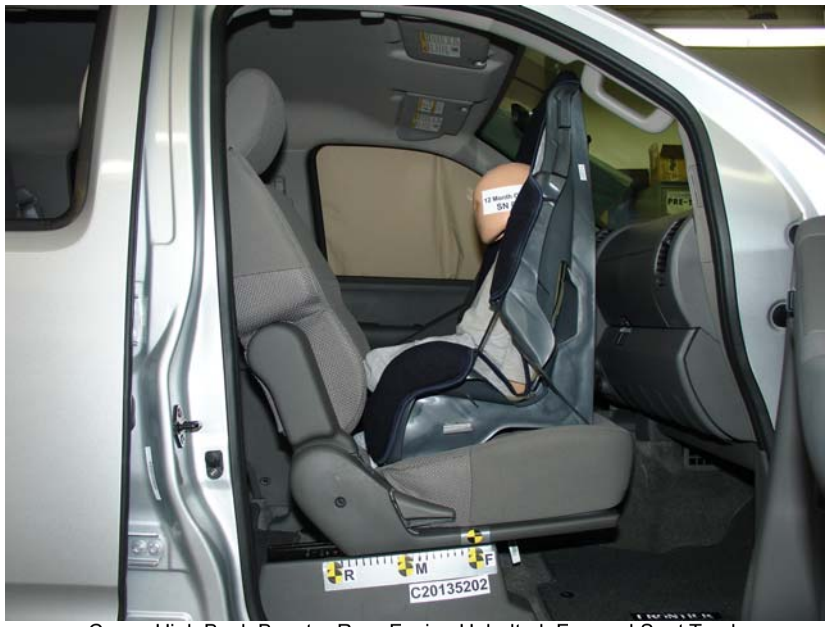


Cosco High Back Booster Forward Facing Belted, Rearward Seat Track

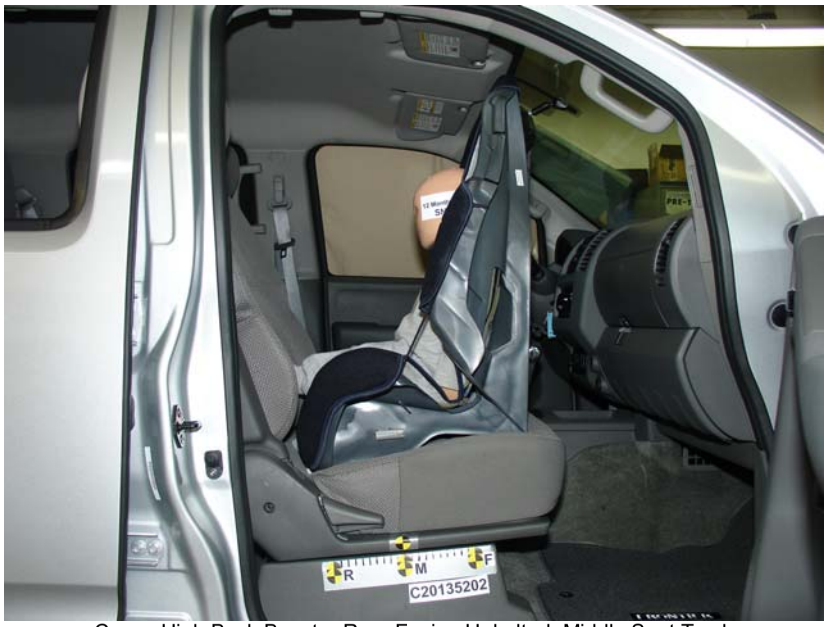
Cosco High Back Booster Forward Facing Unbelted, Forward Seat Track

Cosco High Back Booster Forward Facing Unbelted, Middle Seat Track

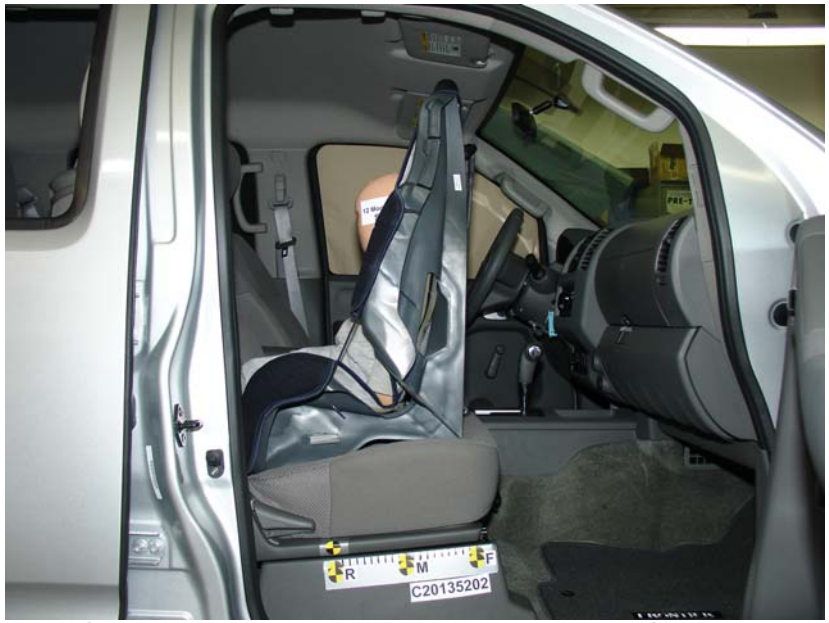
Cosco High Back Booster Forward Facing Unbelted, Rearward Seat Track



Cosco High Back Booster Rear Facing Unbelted, Forward Seat Track



Cosco High Back Booster Rear Facing Unbelted, Middle Seat Track



Cosco High Back Booster Rear Facing Unbelted, Rearward Seat Track

Unbelted 5th Percentile Female Representative Reactivation, Rearward Seat Track

Evenflo Generations Forward Facing Belted, Forward Seat Track

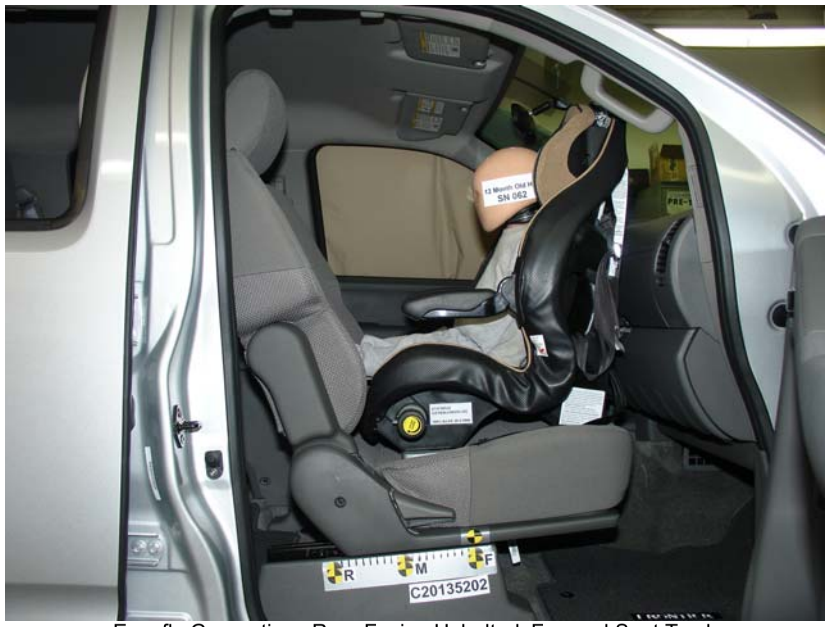
Evenflo Generations Forward Facing Belted, Middle Seat Track

Evenflo Generations Forward Facing Belted, Rearward Seat Track

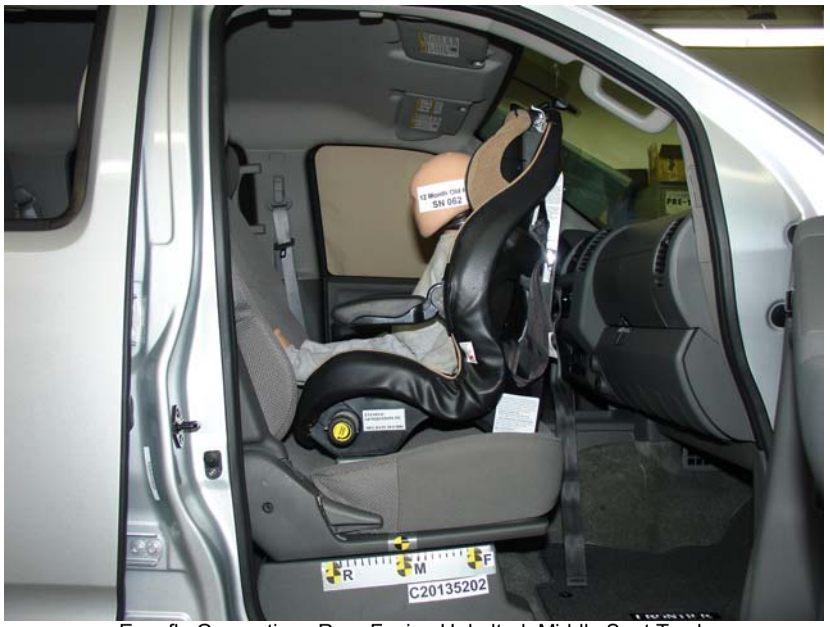
Evenflo Generations Forward Facing Unbelted, Forward Seat Track

Evenflo Generations Forward Facing Unbelted, Middle Seat Track

Evenflo Generations Forward Facing Unbelted, Rearward Seat Track



Evenflo Generations Rear Facing Unbelted, Forward Seat Track



Evenflo Generations Rear Facing Unbelted, Middle Seat Track

Evenflo Generations Rear Facing Unbelted, Rearward Seat Track

Unbelted 5th Percentile Female Representative Reactivation, Forward Seat Track

Graco Comfortsport Forward Facing Belted, Forward Seat Track

Graco Comfortsport Forward Facing Belted, Middle Seat Track

Graco Comfortsport Forward Facing Belted, Rearward Seat Track

Graco Comfortsport Forward Facing Unbelted, Forward Seat Track

Graco Comfortsport Forward Facing Unbelted, Middle Seat Track

Graco Comfortsport Forward Facing Unbelted, Rearward Seat Track

Graco Comfortsport Rear Facing Belted, Forward Seat Track

Graco Comfortsport Rear Facing Belted, Middle Seat Track

Graco Comfortsport Rear Facing Belted, Rearward Seat Track

Graco Comfortsport Rear Facing Unbelted, Forward Seat Track

Graco Comfortsport Rear Facing Unbelted, Middle Seat Track

Graco Comfortsport Rear Facing Unbelted, Rearward Seat Track

Unbelted 5th Percentile Female Representative Reactivation, Middle Seat Track

3-Year-Old Forward Facing Britax Roundabout Belted, Forward Seat Track

3-Year-Old Forward Facing Britax Roundabout Belted, Middle Seat Track

3-Year-Old Forward Facing Britax Roundabout Belted, Rearward Seat Track

Unbelted 5th Percentile Female Representative Reactivation, Rearward Seat Track

3-Year-Old Forward Facing Cosco High Back Booster Belted, Forward Seat Track

3-Year-Old Forward Facing Cosco High Back Booster Belted, Middle Seat Track

3-Year-Old Forward Facing Cosco High Back Booster Belted, Rearward Seat Track

3-Year-Old Forward Facing Cosco High Back Booster Cinched With Harness, Forward

3-Year-Old Forward Facing Cosco High Back Booster Cinched With Harness, Middle Seat

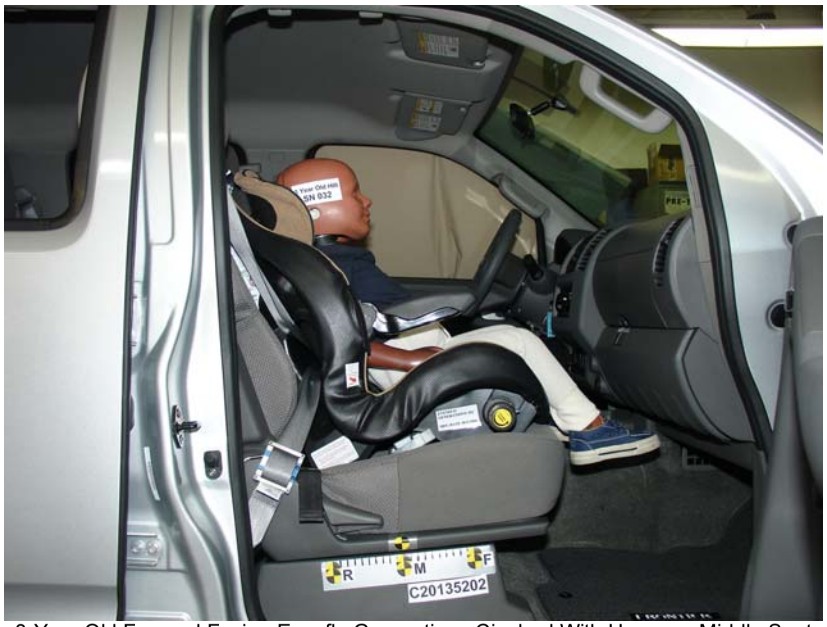
3-Year-Old Forward Facing Cosco High Back Booster Cinched With Harness, Rearward

Unbelted 5th Percentile Female Representative Reactivation, Middle Seat Track

3-Year-Old Forward Facing Evenflo Generations Belted, Forward Seat Track

3-Year-Old Forward Facing Evenflo Generations Belted, Middle Seat Track

3-Year-Old Forward Facing Evenflo Generations Belted, Rearward Seat Track



3-Year-Old Forward Facing Evenflo Generations Cinched With Harness, Middle Seat

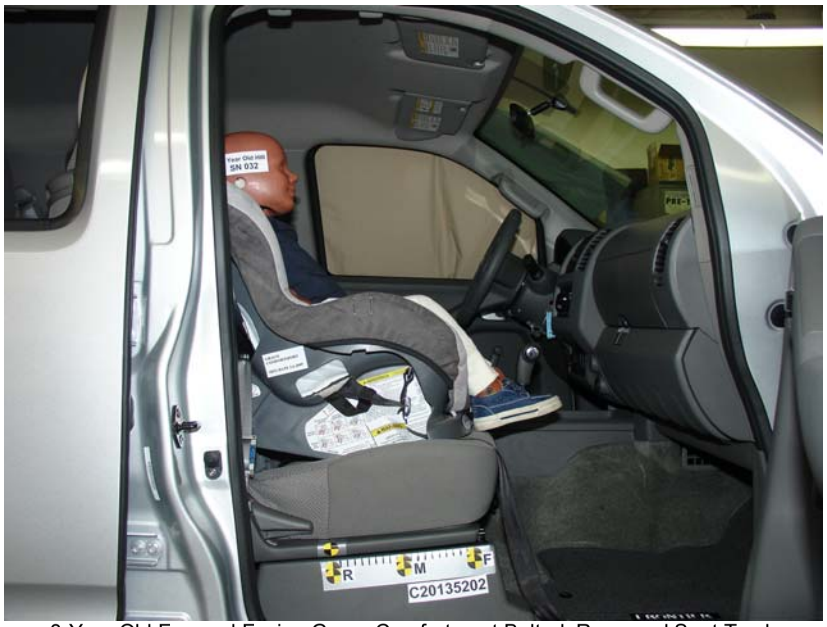
3-Year-Old Forward Facing Evenflo Generations Cinched With Harness, Rearward Seat

3-Year-Old Forward Facing Evenflo Generations Cinched With Harness, Forward Seat

Unbelted 5th Percentile Female Representative Reactivation, Rearward Seat Track

3-Year-Old Forward Facing Graco Comfortsport Belted, Forward Seat Track

3-Year-Old Forward Facing Graco Comfortsport Belted, Middle Seat Track

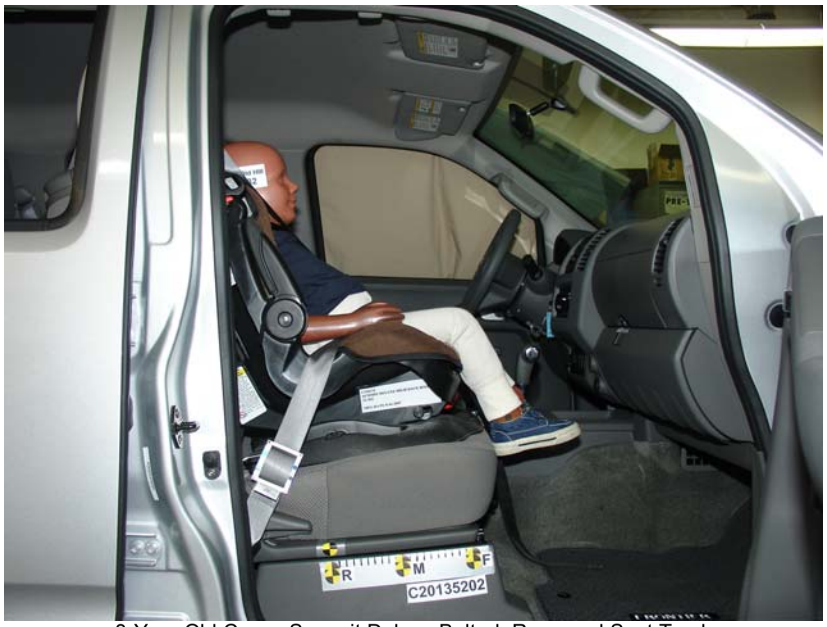


3-Year-Old Forward Facing Graco Comfortsport Belted, Rearward Seat Track

Unbelted 5th Percentile Female Representative Reactivation, Middle Seat Track

3-Year-Old Cosco Summit Deluxe Belted, Forward Seat Track

3-Year-Old Cosco Summit Deluxe Belted, Middle Seat Track



3-Year-Old Cosco Summit Deluxe Belted, Rearward Seat Track

3-Year-Old Cosco Summit Deluxe Cinched With Harness, Forward Seat Track

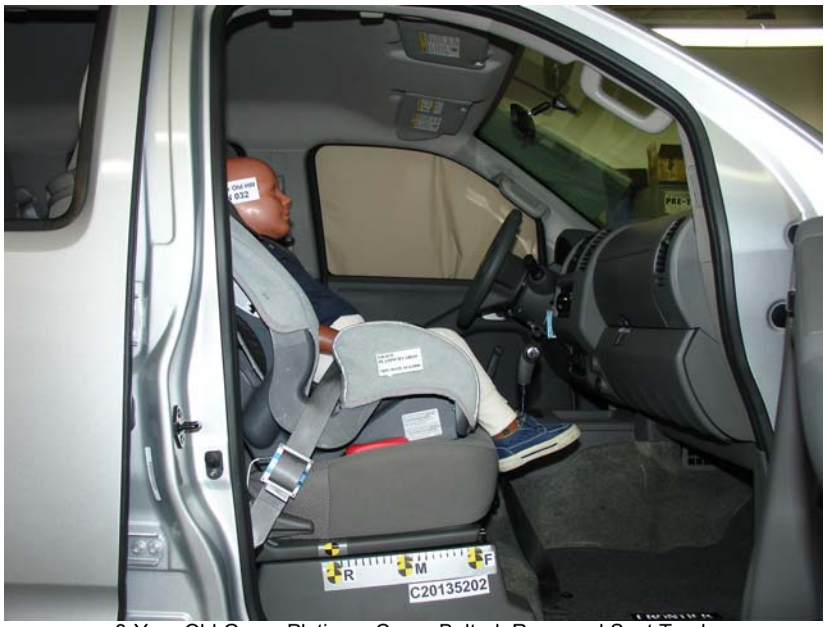
3-Year-Old Cosco Summit Deluxe Cinched With Harness, Middle Seat Track

3-Year-Old Cosco Summit Deluxe Cinched With Harness, Rearward Seat Track

Unbelted 5th Percentile Female Representative Reactivation, Rearward Seat Track

3-Year-Old Graco Platinum Cargo Belted, Forward Seat Track

3-Year-Old Graco Platinum Cargo Belted, Middle Seat Track



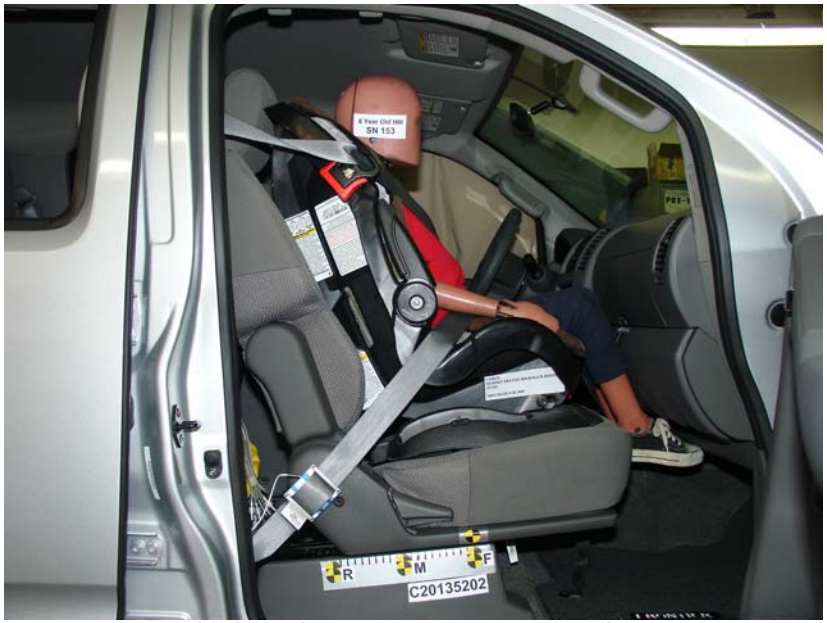
3-Year-Old Graco Platinum Cargo Belted, Rearward Seat Track

3-Year-Old Graco Platinum Cargo Cinched With Harness, Forward Seat Track

3-Year-Old Graco Platinum Cargo Cinched With Harness, Middle Seat Track

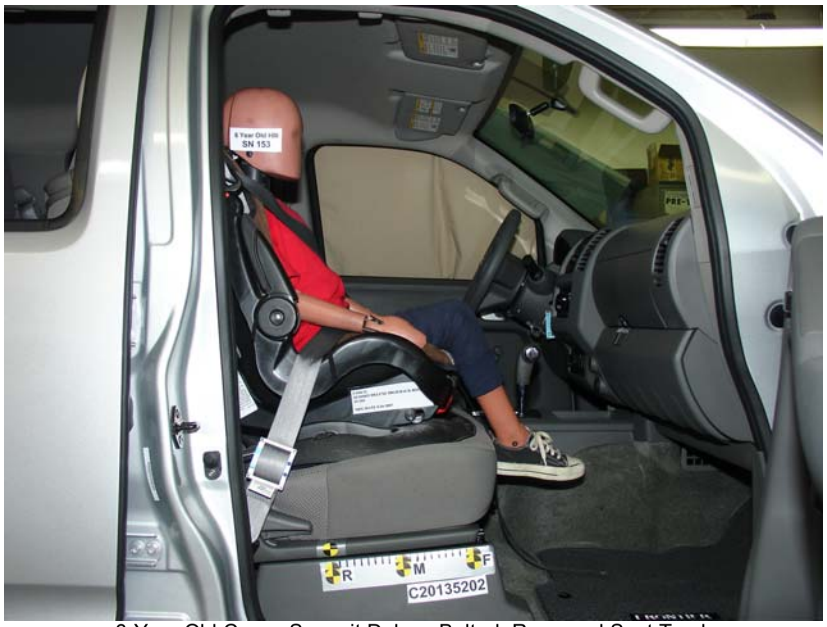
3-Year-Old Graco Platinum Cargo Cinched With Harness, Rearward Seat Track

Unbelted 5th Percentile Female Representative Reactivation, Middle Seat Track



6-Year-Old Cosco Summit Deluxe Belted, Forward Seat Track

6-Year-Old Cosco Summit Deluxe Belted, Middle Seat Track

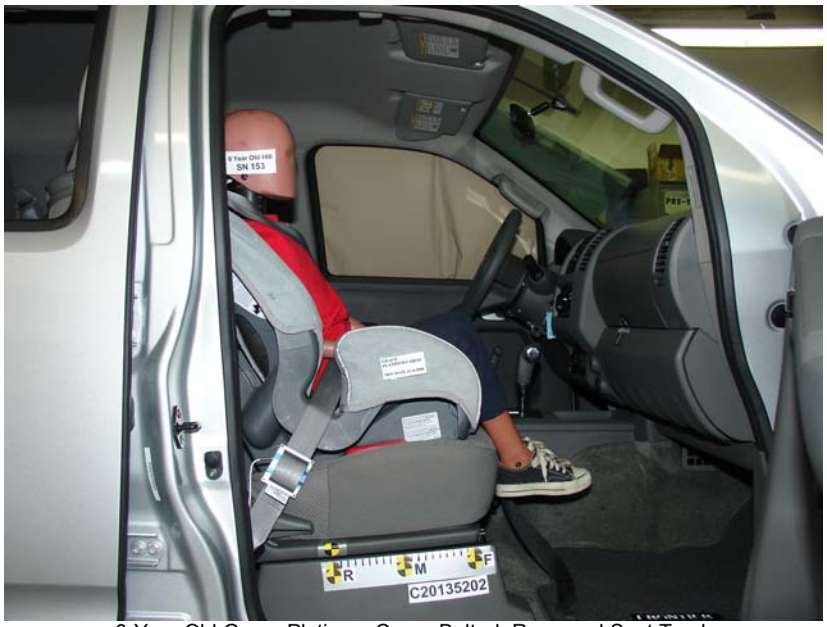


6-Year-Old Cosco Summit Deluxe Belted, Rearward Seat Track

Unbelted 5th Percentile Female Representative Reactivation, Forward Seat Track

6-Year-Old Graco Platinum Cargo Belted, Forward Seat Track

6-Year-Old Graco Platinum Cargo Belted, Middle Seat Track



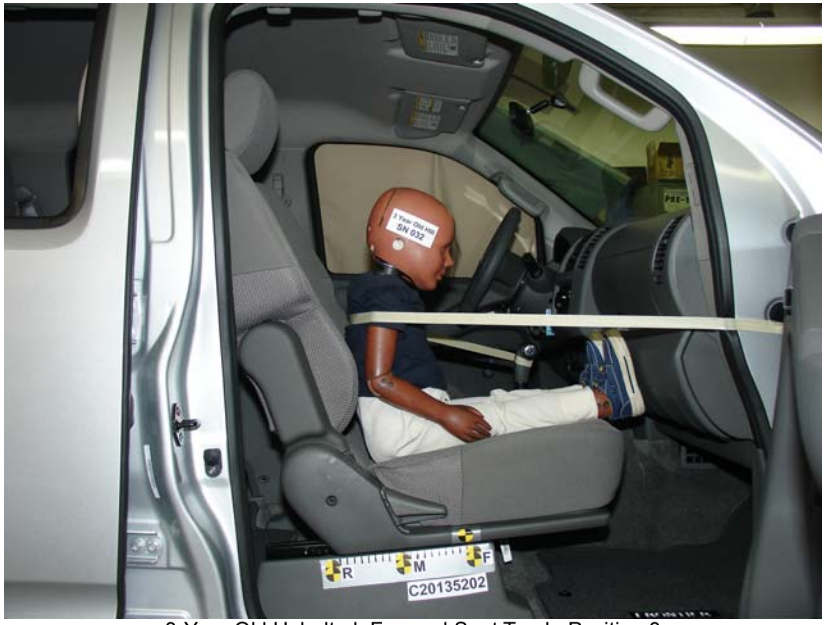
6-Year-Old Graco Platinum Cargo Belted, Rearward Seat Track

Unbelted 5th Percentile Female Representative Reactivation, Middle Seat Track

DOT/NHTSA 208 Suppression Test - 2013 Nissan Frontier (C20135202)
3 Year Old No CRS

3-Year-Old Unbelted, Forward Seat Track, Position 1

3-Year-Old Unbelted, Forward Seat Track, Position 2

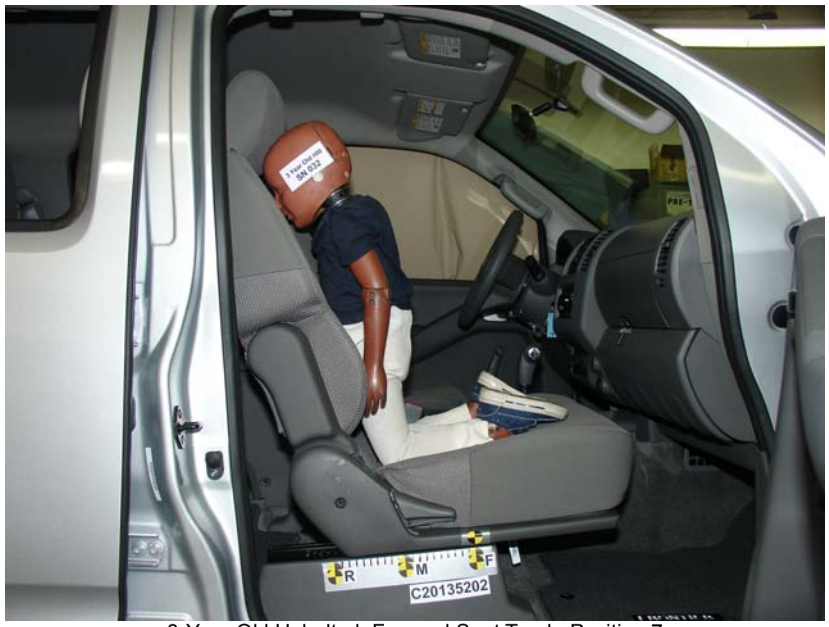


3-Year-Old Unbelted, Forward Seat Track, Position 3

3-Year-Old Unbelted, Forward Seat Track, Position 4

3-Year-Old Unbelted, Forward Seat Track, Position 5

3-Year-Old Unbelted, Forward Seat Track, Position 6

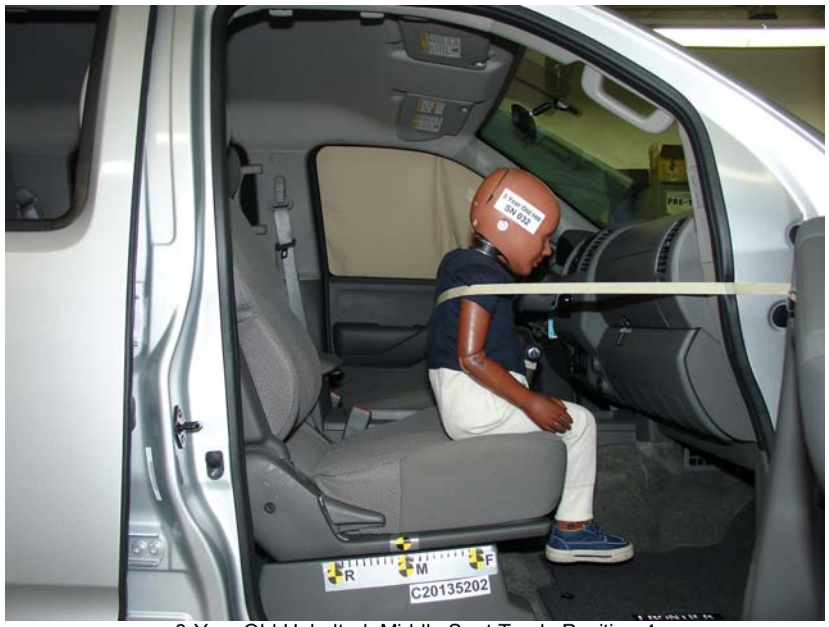


3-Year-Old Unbelted, Forward Seat Track, Position 7

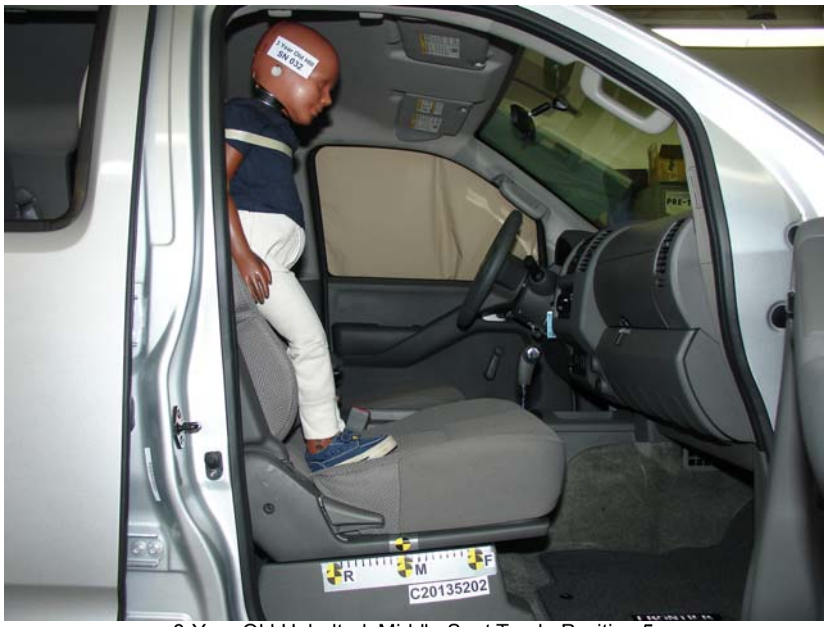
3-Year-Old Unbelted, Middle Seat Track, Position 1

3-Year-Old Unbelted, Middle Seat Track, Position 2

3-Year-Old Unbelted, Middle Seat Track, Position 3

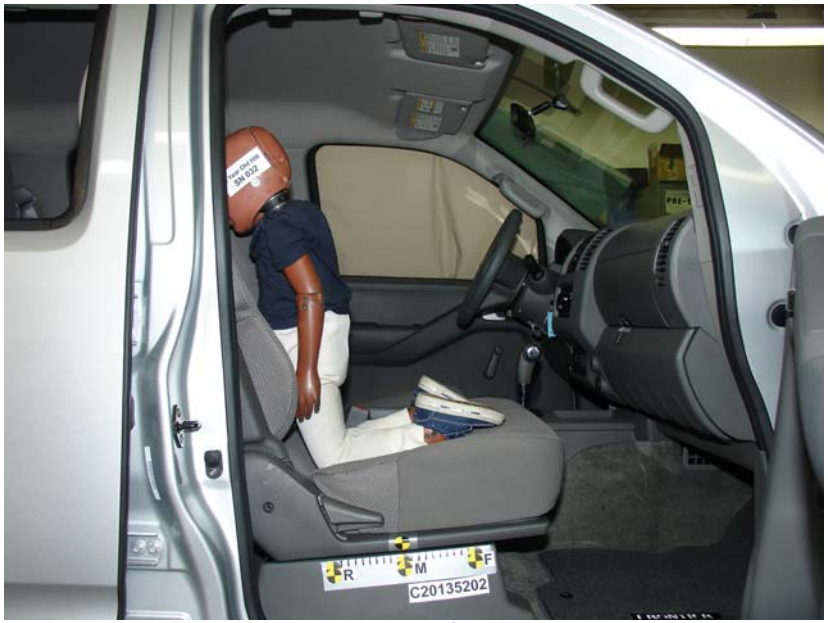


3-Year-Old Unbelted, Middle Seat Track, Position 4

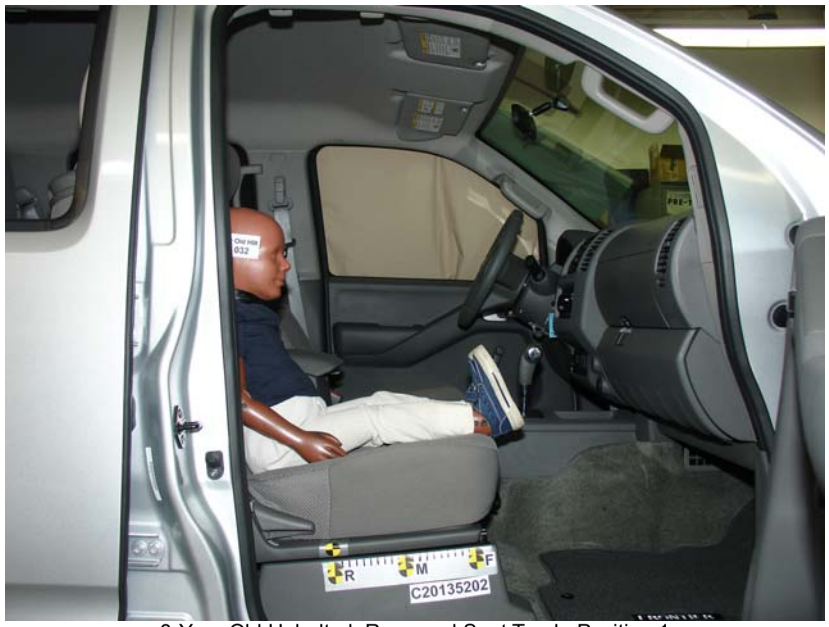


3-Year-Old Unbelted, Middle Seat Track, Position 5

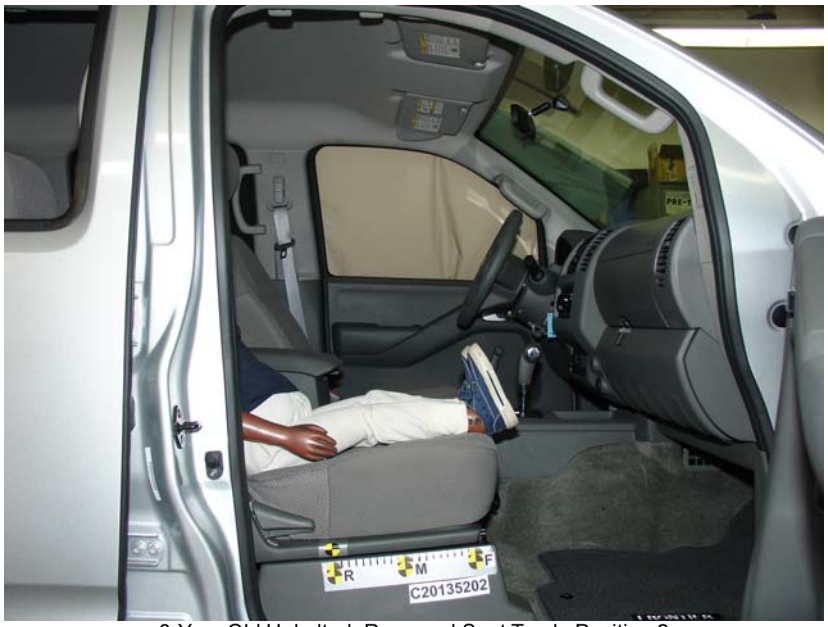
3-Year-Old Unbelted, Middle Seat Track, Position 6



3-Year-Old Unbelted, Middle Seat Track, Position 7



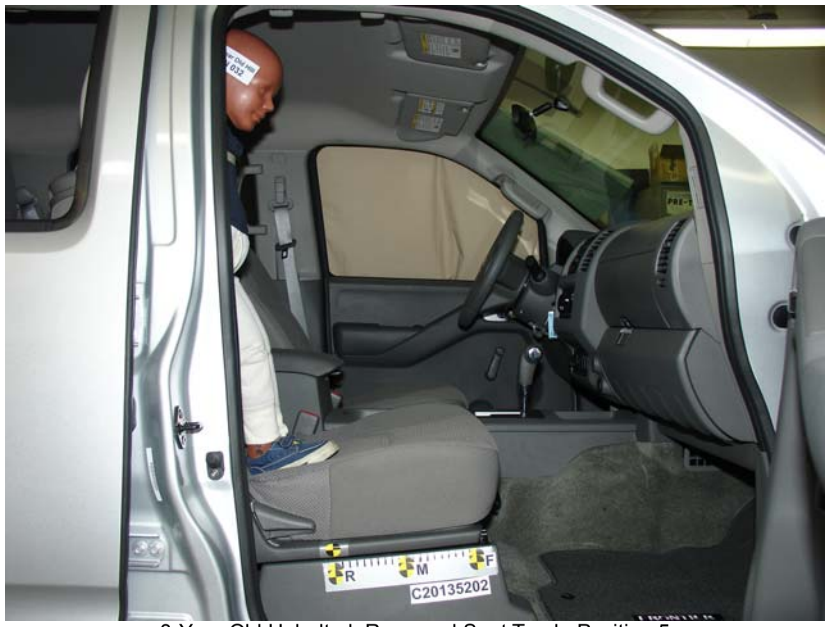
3-Year-Old Unbelted, Rearward Seat Track, Position 1



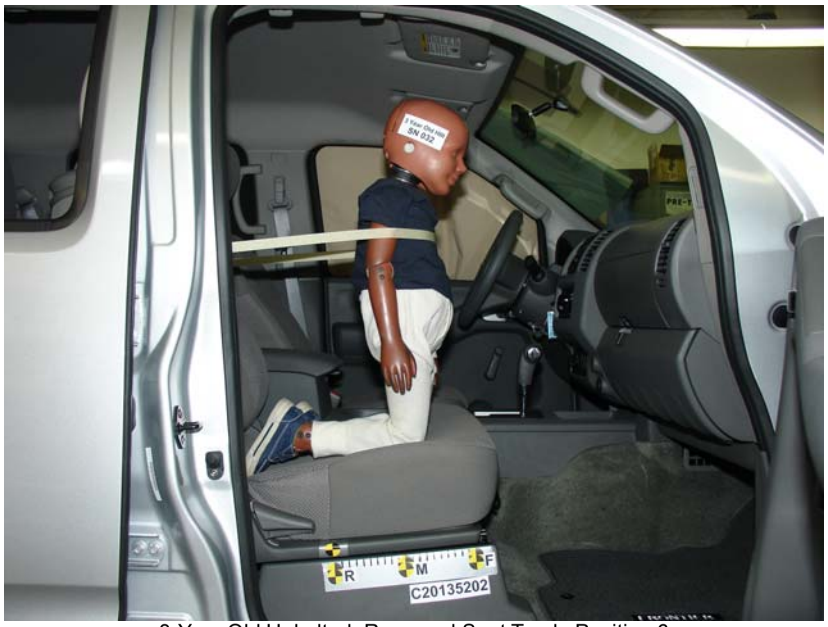
3-Year-Old Unbelted, Rearward Seat Track, Position 2

3-Year-Old Unbelted, Rearward Seat Track, Position 3

3-Year-Old Unbelted, Rearward Seat Track, Position 4

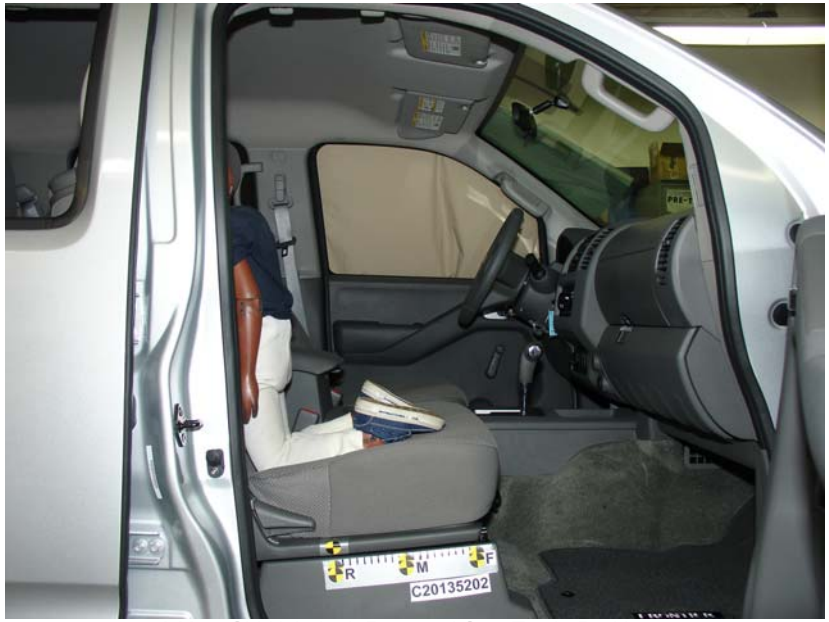


3-Year-Old Unbelted, Rearward Seat Track, Position 5



3-Year-Old Unbelted, Rearward Seat Track, Position 6

DOT/NHTSA 208 Suppression Test - 2013 Nissan Frontier (C20135202)
3 Year Old No CRS



3-Year-Old Unbelted, Rearward Seat Track, Position 7

Unbelted 5th Percentile Female Representative Reactivation, Forward Seat Track

6-Year-Old Unbelted, Forward Seat Track, Position 1

6-Year-Old Unbelted, Forward Seat Track, Position 2

6-Year-Old Unbelted, Forward Seat Track, Position 3

6-Year-Old Unbelted, Forward Seat Track, Position 4

DOT/NHTSA 208 Suppression Test - 2013 Nissan Frontier (C20135202)
6 Year Old No CRS

6-Year-Old Unbelted, Middle Seat Track, Position 1

6-Year-Old Unbelted, Middle Seat Track, Position 2

6-Year-Old Unbelted, Middle Seat Track, Position 3

6-Year-Old Unbelted, Middle Seat Track, Position 4

DOT/NHTSA 208 Suppression Test - 2013 Nissan Frontier (C20135202)
6 Year Old No CRS

6-Year-Old Unbelted, Rearward Seat Track, Position 1

6-Year-Old Unbelted, Rearward Seat Track, Position 2

6-Year-Old Unbelted, Rearward Seat Track, Position 3

6-Year-Old Unbelted, Rearward Seat Track, Position 4

DOT/NHTSA 208 Suppression Test - 2013 Nissan Frontier (C20135202)
6 Year Old No CRS

Unbelted 5th Percentile Female Representative Reactivation, RearwardSeat Track

APPENDIX F

INSTRUMENTATION CALIBRATION

INSTRUMENTS FOR DRIVER DUMMY NO.: 125

	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Head X	P78690	Endevco	04/25/13
Head Y	P78693	Endevco	04/25/13
Head Z	P78694	Endevco	04/25/13
Neck Load Cell	N1175	Denton	02/21/13
Chest X	P78274	Endevco	04/25/13
Chest Y	P78685	Endevco	04/25/13
Chest Z	P78714	Endevco	04/25/13
Chest Displacement	125	Servo	05/16/13
Left Femur Load Cell	F995	Denton	01/29/13
Right Femur Load Cell	F991	Denton	01/29/13

INSTRUMENTS FOR PASSENGER DUMMY NO.: 124

	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Head X	P79741	Endevco	05/07/13
Head Y	P79743	Endevco	05/07/13
Head Z	P79744	Endevco	05/07/13
Neck Load Cell	N1561	Endevco	01/18/13
Chest X	P79695	Endevco	05/07/13
Chest Y	P79696	Endevco	05/07/13
Chest Z	P79740	Endevco	05/07/13
Chest Displacement	124	Servo	05/16/13
Left Femur Load Cell	F8154	Denton	03/21/13
Right Femur Load Cell	F8153	Denton	03/21/13

INSTRUMENTS FOR LOW RISK 5TH FEMALE DUMMY NO.: 510 (P1 & P2)

	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Head X	P77617	Endevco	01/24/13
Head Y	P77618	Endevco	01/24/13
Head Z	P77620	Endevco	01/24/13
Neck Load Cell	N1561	Denton	01/18/13
Chest X	P77634	Endevco	01/24/13
Chest Y	P77635	Endevco	01/24/13
Chest Z	P77636	Endevco	01/24/13
Chest Displacement	510	Servo	01/28/13
Left Femur Load Cell	F995	Denton	01/29/13
Right Femur Load Cell	F991	Denton	01/29/13

VEHICLE INSTRUMENTS

	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Left Rear Seat Crossmember X	P78892	Endevco	04/15/13
Right Rear Seat Crossmember X	P59277	Endevco	04/22/13
Top of Engine X	P73867	Endevco	04/03/13
Bottom of Engine X	P78972	Endevco	12/03/12
Left Brake Caliper X	P66803	Endevco	01/04/13
Right Brake Caliper X	P63348	Endevco	04/29/13
Instrument Panel X	P78745	Endevco	04/15/13
Trunk Z	P59396	Endevco	03/04/13