REPORT NUMBER: 213-MGA-18-006

SAFETY COMPLIANCE TESTING FOR FMVSS 213 CHILD RESTRAINT SYSTEMS

Britax Child Safety Inc.
Boulevard, Model E9LX66C

PREPARED BY:
MGA Research Corporation
11480 Robertson Drive
Manassas, VA 20109

Report Date: April 6, 2018

FINAL REPORT

PREPARED FOR:
U. S. DEPARTMENT OF TRANSPORTATION
National Highway Traffic Safety Administration
Enforcement
Office of Vehicle Safety Compliance
Mail Code: NVS-220, W43-481
1200 New Jersey Avenue, SE
Washington, DC 20590

This publication is distributed by the National Highway Traffic Safety Administration in the interest of information exchange. Opinions, findings and conclusions expressed in this publication are those of the author(s) and not necessarily those of the Department of Transportation or the National Highway Traffic Safety Administration. The United States Government assumes no liability for its contents or use thereof.

If trade or manufacturers' names or products are mentioned, it is only because they are considered essential to the object of the publication and should not be construed as an endorsement.

Prepared By: Corey Barlet

Approved By: Jay Bullington

Approval Date: April 6, 2018

FINAL REPORT ACCEPTANCE BY OVSC:

Accepted By: ZACHARY R FRASER

Digitally signed by ZACHARY R FRASER
Date: 2019.05.22 12:06:39 -04'00'

Acceptance Date: _____

Technical Report Documentation Page

1. Report No. 213-MGA-18-006	*2. Government Accession No.*	*3. Recipient's Catalog No.*	
4. Title and Subtitle Final Report of FMVSS 213 Compliance Testing of Britax Child Safety Inc. Boulevard, Model E9LX66C		*5. Report Date* April 6, 2018 *6. Performing Organization Code* MGA Research Corporation	
7. Author(s) Corey Barlet, Project Engineer		*8. Performing Organization Report No.* 213-MGA-18-006	
9. Performing Organization Name and Address MGA Research Corporation 11480 Robertson Drive Manassas, VA 20109		*10. Work Unit No.* *11. Contract or Grant No.* DTNH22-17-D-0080	
12. Sponsoring Agency Name and Address U. S. DEPARTMENT OF TRANSPORTATION National Highway Traffic Safety Administration Enforcement Office of Vehicle Safety Compliance Mail Code: NVS-220, W43-481 1200 New Jersey Avenue, SE Washington, DC 20590		*13. Type of Report and Period Covered* Final Test Report January 26 to February 27, 2018 *14. Sponsoring Agency Code* NVS-220	
15. Supplementary Notes			
16. Abstract Compliance tests were conducted on the Britax Child Safety Inc., Boulevard, Model E9LX66C child restraint systems in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-213-10. Test failures identified were as follows: None			
17. Key Words Compliance Testing Safety Engineering FMVSS 213		*18. Distribution Statement* Copies of this report are available from: National Highway Traffic Safety Admin., Technology Info Services, (NPO-411) (Rm E12-100) 1200 New Jersey Avenue, SE Washington, D.C. 20590 e-mail: tis@nhtsa.dot.gov FAX: 202-493-2833	
19. Security Classif. (of this report) Unclassified	*20. Security Classif. (of this page)* Unclassified	*21. No. of Pages* 159	22. Price

Form DOT F1700.7 (8-72)

TABLE OF CONTENTS

SECTION 1
PURPOSE AND TEST PROCEDURE

PURPOSE

The tests performed are part of the safety compliance program for the National Highway Traffic Safety Administration (NHTSA) by MGA Research Corporation under Contract No. DTNH22-12-D-00274. The purpose of the testing is to determine whether production child restraint systems meet the minimum inspection and dynamic test requirements of TP-213-10, “Child Restraint Systems”.

TEST PROCEDURE

The MGA Research Corporation Test Procedure for FMVSS 213, submitted and approved by the Office of Vehicle Safety Compliance, National Highway Traffic Safety Administration, contains the specific procedures used to conduct this test. This procedure shall not be interpreted to be in conflict with any portion of FMVSS 213 and amendments in effect as noted in the applicable contract.

SECTION 2
INTRODUCTION AND SUMMARY

This report presents all of the FMVSS 213 compliance inspection and test data obtained on the Britax Child Safety Inc. Boulevard, Model E9LX66C, child restraint system. The restraint was dynamically tested in the following configurations:

- Newborn Infant, rear facing, other configuration, lap belt, tether free, and reclined
- 12 month old, CRABI, rear facing, other configuration, lap belt, tether free, and reclined
- 12 month old, CRABI, forward facing, other configuration, lower anchor, tether, upright
- 3 year old, Hybrid III, forward facing, other configuration, lower anchor, tether, upright
- 6 year old, Hybrid III, forward facing, other configuration, lap belt, tether, and upright
- 6 year old weighted, Hybrid III, forward facing, other configuration, lap belt, tether, and upright

Inversion testing was performed in both the forward Y-axis rotation and in the lateral X-axis rotation for the following configurations:

- Newborn Infant, rear facing, other configuration, lap belt, tether free, and reclined
- 12 month old, CRABI, forward facing, other configuration, lap belt, tether free, and upright
- 3 year old, Hybrid III, forward facing, other configuration, lap belt, tether free, and upright

The inspection and testing of the Britax Child Safety Inc., Boulevard, Model E9LX66C child restraint was conducted in accordance with TP-213-10 in the configurations and conditions documented in this report and no test failures were identified.

Restraint system inspection, dynamic sled testing, and inversion testing were performed by MGA Research Corporation in Manassas, Virginia. Compliance test data sheets for all tests are found in Section 5 of this report.

SECTION 3

CHILD RESTRAINT SYSTEM IDENTIFICATION

Report No. 213-MGA-18-006

Manufacturer:	Britax Child Safety Inc.
Place of Manufacture per S5.5.2(d):	Fort Mill, SC
Model No.	E9LX66C
Group No.	2

1	Item Code	006-BE9LX66C-01-NINRN2FR
	Date of Manufacture	09 2017
	Sled Test No.	V18014F
2	Item Code	006-BE9LX66C-02-12CRN2FR
	Date of Manufacture	09 2017
	Sled Test No.	V18014R
3	Item Code	006-BE9LX66C-03-6H3FN2TU
	Date of Manufacture	09 2017
	Sled Test No.	V18022F
4	Item Code	006-BE9LX66C-04-3H3FNLTU
	Date of Manufacture	09 2017
	Sled Test No.	V18022R
5	Item Code	006-BE9LX66C-05-12CFNLTU
	Date of Manufacture	09 2017
	Sled Test No.	V18045F
6	Item Code	006-BE9LX66C-06-6W3FN2TU
	Date of Manufacture	09 2017
	Sled Test No.	V18045R

SECTION 4

DYNAMIC TEST RESULTS DATA SUMMARY

Child Restraint System - Britax Child Safety Inc. / Boulevard / E9LX66C										
Item Code	**Sled Test No.**	**Dummy and CRS Test Mode***	**Lower Anchors Used? Y/N**	**Tether Used? Y/N**	**HIC (1000 max)**	**Chest g clip (60 g max)**	**Head Excursion (720 mm max - or 813 mm max w/o tether)**	**Knee Excursion (915 mm max)**	**Seat Back Angle (70 deg max)**	**Pass/ Fail**
006-BE9LX66C-01-NINRN2FR	V18014F	NIN (RF) (R)	N	N	N/A	N/A	N/A	N/A	59	Pass
006-BE9LX66C-02-12CRN2FR	V18014R	12 mo (RF) (R)	N	N	316	42	N/A	N/A	61	Pass
006-BE9LX66C-03-6H3FN2TU	V18022F	6 yo (FF) (U)	N	Y	462	51	639	813	N/A	Pass
006-BE9LX66C-04-3H3FNLTU	V18022R	3 yo (FF) (U)	Y	Y	280	37	563	659	N/A	Pass
006-BE9LX66C-05-12CFNLTU	V18045F	12 mo (FF) (U)	Y	Y	270	44	468	555	N/A	Pass
006-BE9LX66C-06-6W3FN2TU	V18045R	6 yo weighted (FF) (U)	N	Y	N/A	N/A	N/A	N/A	N/A	Pass

*Test Mode:

RF- Rear facing
FF- Forward facing
SF- Side facing
U- Upright
R- Reclined
B- Backed Booster
N- No Back Booster
F- Flat

SECTION 5
DATA

LABELING

(FMVSS 213, S5.3, S5.5)

Report No.:	213-MGA-18-006
Test Date:	1/26/2018

Model No.:	E9LX66C

Requirement	Pass/Fail
The labels on the subject child restraint system were inspected and compared to the requirements of FMVSS No. 213 S5.3.1(b) and S5.5, as applicable.	Pass (1)

Remarks:

(1) S5.5.2(c) The word “in” is omitted in the required statement.

Photographs of the labels are included in Section 9.

Recorded by: Matthew James Date: 1/26/2018

PRINTED INSTRUCTIONS FOR PROPER USE

(FMVSS 213, S5.6)

Report No.:	213-MGA-18-006
Test Date:	1/26/2018

Model No.:	E9LX66C

Requirement	Pass/Fail
The printed instructions accompanying the subject child restraint system were inspected and compared to the requirements of FMVSS No. 213 S5.6, as applicable.	Pass (1)

Remarks:

(1) S5.6.1.12(b) On page 15 of the User Guide, the forward-facing diagram is not labeled with the statement required by S5.5.2(l)(3)(i). Visible at the beginning of the installation instructions on page 14, the statement is printed “Do not install forward-facing with the lower anchors for a child weighing more than 50 lbs (22.7 kg).”

Recorded by: Matthew James Date: 1/26/2018

REGISTRATION FORM

(FMVSS 213, S5.8)

Report No.:	213-MGA-18-006
Test Date:	1/26/2018

Model No.:	E9LX66C

Requirement	Pass/Fail
The printed registration form accompanying the subject child restraint system and the electronic registration form were inspected and compared to the requirements of FMVSS No. 213 S5.8.	Pass (1)

Remarks:

(2) S5.8.1(b)(2) The word “registration” is omitted from “manufacturer’s registration website” and the phrase “Tear off and mail this part” is replaced with “Tear here” on the attached registration form)

Recorded by: Matthew James Date: 1/26/2018

MAXIMUM CHILD WEIGHT FOR LOWER ANCHOR USE

(S213, S5.5.2(l)(3))

Report No.:	213-MGA-18-006
Test Date:	1/26/2018

Model No.:	E9LX66C

For child restraints manufactured on or after February 27, 2015:

Installation Mode	A Max Child Weight is Required for this Installation Mode (Y or N)	Installation Diagram Shown (Y or N)	Max Child Weight Indicated on Installation Diagram (lb)
Rear Facing	N	Y	40
Forward Facing	Y	Y	50

CRS Weight (lb)	Child Weight (CW) Calculation (lb)	Rounded CW Limit permitted under S5.5.2(l)(3)(i)
18.4	Rear Facing 60-CRS Weight = 41.6	45
	Forward Facing 65-CRS Weight = 46.6	50

Calculated CW	Rounded CW
15 < CW ≤ 20	20
20 < CW ≤ 25	25
25 < CW ≤ 30	30
30 < CW ≤ 35	35
35 < CW ≤ 40	40
40 < CW ≤ 45	45
45 < CW ≤ 50	50
50 < CW ≤ 55	55
55 < CW ≤ 60	60

Section	Requirement	Pass/Fail
S5.5.2(l)(3)(i)	A maximum child weight is required on an installation diagram when the CRS+child weight is greater than 65 lb for CRS that are used with the internal harness and installed with lower anchors. The maximum weight on the label conforms to the limits established in S5.5.2(l)(3)(i)	Pass
S5.5.2(l)(3)(ii)	For CRS that can be used both forward and rear-facing, either: (1) separate diagrams are provided and labeled; or (2) only one diagram is applicable, provided, and labeled; or (3) two diagrams are applicable and the diagram shown contains the lesser of the permitted weights	Pass

Remarks:

None

Recorded by: Matthew James Date: 1/26/2018

ATTACHMENT TO ANCHORAGE SYSTEM

(S213, S5.9)

Report No.:	213-MGA-18-006
Test Date:	1/26/2018

Model No.:	E9LX66C

Section	Requirement	Pass/Fail
S5.9(a)	This add-on child restraint system (excluding car beds, harnesses, and belt-positioning seats) has a permanently attached anchorage system having components that enable the restraint to be securely fastened to the lower anchorages.	Pass
	The anchorage system has components which can only be removed with a tool, such as a screwdriver.	Pass
	Note: If this is a rear-facing child restraint system with a detachable base, then only the base is required to have the components.	N/A
S5.9(b)	This child restraint system has components for attaching the system to a tether anchorage, and those components include a tether hook that conforms to the configuration and geometry specified in Figure 22.	Pass
S5.9(c)	This child restraint system has adjustable components for attaching the system to a tether anchorage or to lower anchors to allow the restraint to be tightened to the vehicle.	Pass
S5.9(d)	If the anchorage system on this child restraint system has components, other than hooks, that enable the restraint to be securely fastened to the lower anchorages, it provides either an indication when each attachment to the lower anchorage becomes fully latched or attached, or provides a visual indication that all attachments to the lower anchorages are fully latched or attached.	Pass
	Visual indications are detectable under normal daylight lighting conditions.	N/A

Remarks:

None

Recorded by: Matthew James Date: 1/26/2018

INSTALLATION

(S213-S5.3)

Report No.:	213-MGA-18-006
Test Date:	1/26/2018

Model No.:	E9LX66C

Section	Requirement						Pass/Fail
S5.3.1	Add-on child restraints meet either (a) or (b) as appropriate						Pass
S5.3.1(a)	Except for components designed to attach a child restraint anchorage system, this add-on child restraint does not have any means designed for attaching the system to a vehicle seat cushion or vehicle seat back and any component (except belts) that is designed to be inserted between the vehicle seat cushion and vehicle seat back.						Pass
S5.3.1(b)	Harnesses manufactured for use on school bus seats must meet S5.3.1(a) unless labeled appropriately. Refer to the labeling data sheet for the specific requirements.						N/A
S5.3.2	This child restraint system is capable of being installed as required by Table S5.3.2 of FMVSS No. 213. Shaded sections indicate installation means required by standard.						
		Lap Belt	*Lap Belt & Tether (if needed)*	*Lower Anchors*	*Lap & Shoulder Belt*	*Seat back Mount*	
	Harnesses per S5.3.1(b)(1)-(3) and Fig. 12						N/A
	Other Harnesses						N/A
	Car Beds						N/A
	Rear-Facing Restraints	X		X	X		Pass
	Belt Positioning Seats						N/A
	Other	X	X	X	X		Pass
S5.3.3	If a car bed, this child restraint system is designed to be installed laterally.						N/A

Remarks:

None

Recorded by: Matthew James Date: 1/26/2018

MINIMUM HEAD SUPPORT SURFACE

(FMVSS 213, S5.2.1)

Report No.:	213-MGA-18-006
Test Date:	1/26/2018

Model No.:	E9LX66C

Section	Requirement	
S5.2.1.2	The child restraint system is exempt from S5.2.1.1 if it is a forward facing restraint and the target points on either side of the dummy's head (using the largest test dummy specified in S7, excluding the 6-year-old) is below the top of the test seat.	
S5.2.1.1.(a)	**Maximum Recommended Child Weight**	**Minimum Seat Back Height Required**
	≤ 18 kg (39.7 lb)	500 mm (19.7 in)
	> 18 kg (39.7 lb)	560 mm (22.0 in)
S5.2.1.1(b)	**Side Wing Depth**	**Minimum Back Support Width**
	< 102 mm (4.0 in)	203 mm (8.0 in)
	≥ 102 mm (4.0 in)	152 mm (6.0 in)

The child restraint system is **exempt** from S5.2.1.1 NO

Back Support Height

Manufacturer's Recommended Maximum Child Weight kg (lb)	Measured Height mm (in)	Pass/Fail
29.4 (65)	720 (28.3)	Pass

Back Support Width

Measured Side Wing Depth mm (in)	Measured Width mm (in)	Pass/Fail
160 (6.3)	215 (8.5)	Pass

Remarks:

None

Recorded by: Matthew James Date: 1/26/2018

TORSO IMPACT PROTECTION

(FMVSS 213, S5.2.2)

Report No.:	213-MGA-18-006
Test Date:	1/26/2018

Model No.:	E9LX66C

Section	Surface Requirement	Contour Requirement	Other Requirement
S5.2.2.1(a)	Back Support Surface	flat or concave	Continuous surface area of ≥ 85 in²
S5.2.2.1(b)	Side Support Surface	flat or concave	Continuous surface area of ≥ 24 in² for restraints having a recommended child weight ≥ 20 lb
		flat or concave	Continuous surface area of ≥ 48 in² for restraints having a recommended child weight < 20 lb
S5.2.2.1(c)	Horizontal Cross Sections of Surfaces Restraining Torso Forward Movement	flat or concave	
	Vertical Longitudinal Cross Sections of Surfaces Restraining Torso Forward Movement	flat or convex	Radius of curvature ≥ 2 in
S5.2.2.2	Fixed or movable surface forward of dummy		Must be used to restrain dummy and allow compliance with injury & excursion criteria

Support Surface- Results

Surface	Contour	Measured Area	Pass/Fail
Back Support Surface	Flat	≥ 85 in²	Pass
Side Support Surface	Flat	≥ 24 in²	Pass

Surfaces Restraining Torso Forward Movement- Results

	Contour	Radius of Curvature	Pass/Fail
Horizontal Cross Section	N/A	N/A	Pass
Vertical Cross Section	N/A	N/A	Pass

Fixed or Movable Surfaces Forward of Dummy- Results

Yes/No	Pass/Fail
No	Pass

Remarks:

None

Recorded by: Matthew James Date: 1/26/2018

PROTRUSION LIMITATION

(FMVSS 213, S5.2.4)

Report No.:	213-MGA-18-006
Test Date:	1/26/2018

Model No.:	E9LX66C

S5.2.4. Any portion of a rigid structural component within or underlying a contactable surface is subject to the protrusion limitations described below.

Test	Compliance Requirement	Result	Pass/Fail
Height	≤ 3/8 in. (9.53 mm)	≤ 3/8 in. (9.53 mm)	Pass
Edge Radius	≥ 1/4 in. (6.35 mm)	≥ 1/4 in. (6.35 mm)	Pass

Remarks:

None

Recorded by: Matthew James Date: 1/26/2018

DYNAMIC IMPACT TEST CONDITIONS - TEST 1

(FMVSS 213, S6.1)

Report No.:	213-MGA-18-006
Test Date:	2/13/2018

Sled Test No.	V18014F
Item Code	006-BE9LX66C-01-NINRN2FR

Pulse:

Test Configuration (I or II)	I
Nominal Velocity (km/h)	48 (+0/-3)

Laboratory Ambient Conditions During Testing:

Temperature (ºC)	21.4
Relative Humidity (%)	30

Dummy:

Dummy Description	CAMI Newborn (Part 572K)
Dummy Serial Number	004

Restraint Installation:

Installed Direction	Rear-Facing
Base Usage	Other Configuration
Attachment Method	Lap Belt
Tether Usage	No
Seat Back Position	Reclined
Shoulder Harness Position	Slot 1 of 10, Counted from the Bottom
Buckle Harness Position	Slot 1 of 2, Counted from the Seat Back Outward
Recline Position	Position 3 of 3, Counted from Most Upright
Infant Positioning Pillow	Installed
Shoulder Harness Covers	Installed
Crotch Buckle Cover	Installed
Impact Absorbing Chest Pads	Removed
Lock-offs Used	None

Remarks:

Pre-test and post-test photographs are presented in Section 9.

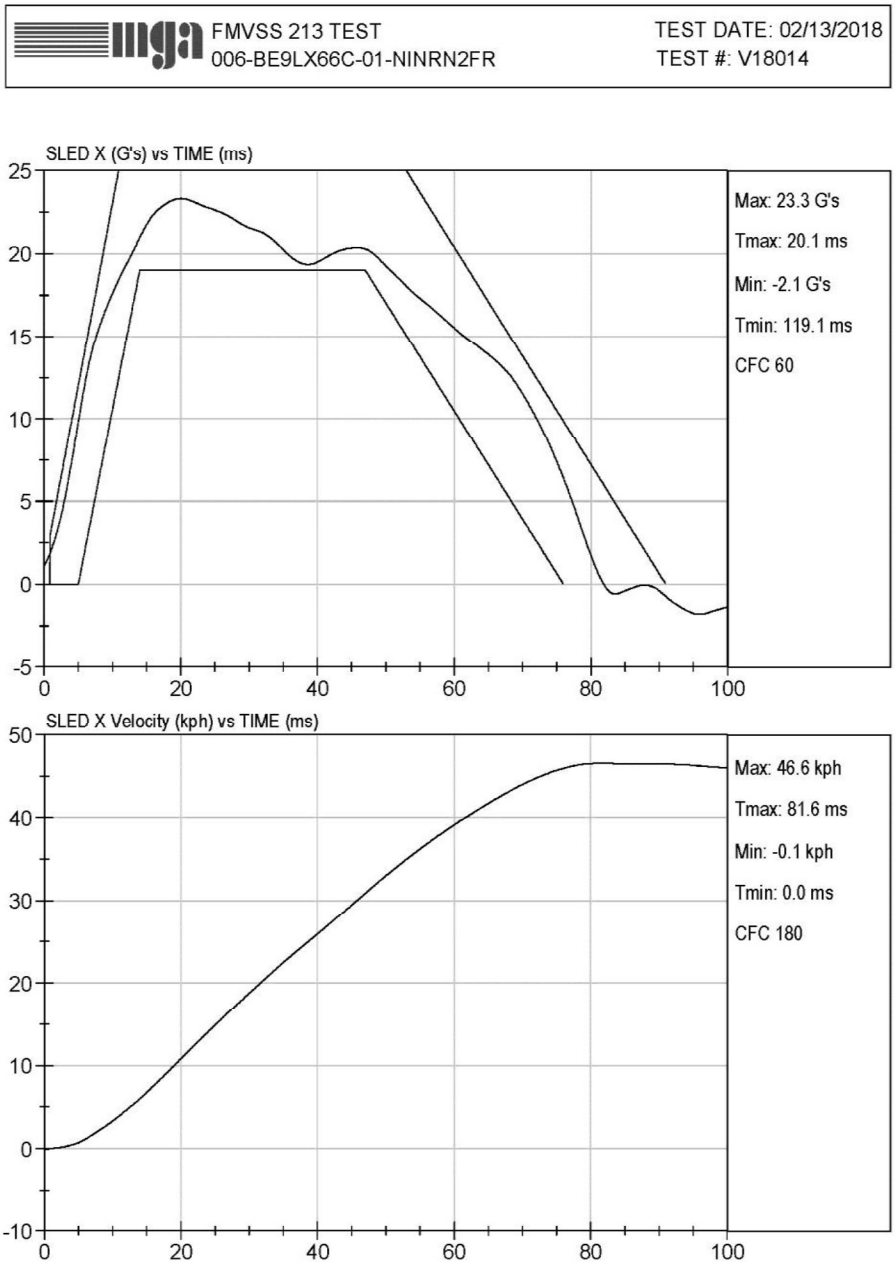
Recorded by: Jay Bullington Date: 2/13/2018

DYNAMIC IMPACT SLED PULSE - TEST 1

(FMVSS 213, S6.1)

Report No.:	213-MGA-18-006
Test Date:	2/13/2018

Sled Test No.	V18014F
Item Code	006-BE9LX66C-01-NINRN2FR



BELT RESTRAINT - TEST 1

(FMVSS 213, S5.4.3)

Report No.:	213-MGA-18-006
Test Date:	2/13/2018

Sled Test No.	V18014F
Item Code	006-BE9LX66C-01-NINRN2FR

Section	Requirement	Pass/Fail
S5.4.3.1	**Snug Fit of Belts**. Belts that are part of the restraint and designed to restrain the child are adjustable to snugly fit any child of height and weight identified by the manufacturer in accordance with the manufacturer's installation instructions.	Pass

Section	Requirement	Yes/No	Pass/Fail
S5.4.3.2	**Direct Restraint**. Belts impose no loads on the child resulting from the mass of the system or the test seat.		Pass
	This restraint has one or more belts that contact the dummy for restraint.	No	If all are "yes," restraint fails S5.4.3.2.
	This restraint has a rigid structure behind the dummy.	Yes	
	The restraint could move relative to the belt.	No	

Section	Requirement	Pass/Fail
S5.4.3.3	**Seating Systems**. Except for harnesses and infant restraints for children up to 10 kg (22 lb), each restraint designed for a child in a seated position and having belts shall provide:	Pass
S5.4.3.3(a)	Upper torso restraint (either belts or a shield)	Pass
S5.4.3.3(b)	Lower torso restraint (either belts or a shield)	Pass
S5.4.3.3(c)	Crotch restraint (either a belt attached to the lap belt or a shield)	Pass

Section	Requirement	Pass/Fail
S5.4.3.4	**Harnesses**. Each harness shall:	N/A
S5.4.3.3(a)	Provide upper torso restraint	N/A
S5.4.3.3(b)	Provide lower torso restraint (lap and crotch restraint)	N/A
S5.4.3.3(c)	Prevent standing	N/A

Remarks:

None

Recorded by: Jay Bullington Date: 2/13/2018

BUCKLE RELEASE - TEST 1

(FMVSS 213, S5.4.3.5, S6.2)

Report No.:	213-MGA-18-006
Test Date:	2/13/2018

Sled Test No.	V18014F
Item Code	006-BE9LX66C-01-NINRN2FR

Section	Requirement	Measurement	Pass/Fail
S5.4.3.5(a)	**Pre-Impact Release Force—** Releases under 40-62 N (9-14 lb)	L: 59 N (13.3 lb) R: 59 N (13.3 lb)	Pass (1)
S5.4.3.5(b)	**Post-Impact Release Force*—** Releases ≤ 71 N (16 lb)	L: 60 N (13.5 lb) R: 60 N (13.5 lb)	Pass (1)
S5.4.3.5(c)	**Minimum Surface Area of Buckle-** ≥ 0.6 in^2 (3.9 cm^2)	0.7 in^2 (4.4 cm^2)	Pass
S5.4.3.5(e)	**Buckle Integrity** Shall not release during testing	No Release	Pass

*Not applicable unless determined using the largest test dummy specified in S7 for use in testing the seat.

Remarks:

(1) The buckle is comprised of right and left buckle tangs that do not always release at the same force.

Recorded by: Jay Bullington Date: 2/13/2018

SYSTEM INTEGRITY - TEST 1

(FMVSS 213, S5.1.1)

Report No.:	213-MGA-18-006
Test Date:	2/13/2018

Sled Test No.	V18014F
Item Code	006-BE9LX66C-01-NINRN2FR

S5.1.1 When dynamically tested, the child restraint system shall:

Section	Requirement	Pass/Fail
S5.1.1(a)	**Structural Integrity-** Exhibit no complete separation of any load bearing structural element	Pass
	Exhibit no partial separation exposing surfaces with a radius of less than ¼ in (9.53 mm)	Pass
	Exhibit no partial separation exposing surfaces with protrusions greater than 3/8 in (6.35 mm)	Pass
S5.1.1(b)(1)	**Adjustment Position-** Remain in the same adjustment position during the test that it was in immediately before the test	Pass
S5.1.1(b)(2)(ii)	**Exposed Openings-** Have no exposed opening larger than ¼ inch (9.53 mm) before the test become smaller during the testing as a result of the movement of the seating surface relative to the restraint system as a whole	Pass
S5.1.1(c)	**Seating Surface Angle-** Forward facing restraints do not allow the angle between the system's back support surface and seating surface to be less than 45 degrees at the completion of the test.	N/A

Remarks:

None

Recorded by: Jay Bullington Date: 2/13/2018

OCCUPANT EXCURSION - TEST 1

(FMVSS 213, S5.1.3, S5.1.4, S5.2.1.1(c))

Report No.:	213-MGA-18-006
Test Date:	2/13/2018

Sled Test No.	V18014F
Item Code	006-BE9LX66C-01-NINRN2FR

FORWARD-FACING RESTRAINTS

Section	Requirement	Measurement	Pass/Fail
S5.1.3.1	***Torso retention***—CRS shall retain the torso within system		N/A
S5.1.3.1(a)(1)	***Head excursion***- ≤ 720 mm (28 in) with tether ≤ 813 mm (32 in) no tether	N/A	N/A
S5.1.3.1(a)(2)	***Knee target excursion***- ≤ 915 mm (36 in)	N/A	N/A
S5.2.1.1(c)	***Head-torso angle***- rearward change ≤ 45º	N/A	N/A

REAR-FACING RESTRAINTS

Section	Requirement	Measurement	Pass/Fail
S5.1.3.2	***Torso retention***—CRS shall retain the torso within system		Pass
S5.1.3.2	***Head target excursion***-Not beyond restraint's top and forward edge		Pass
S5.1.4	***Back support angle***- Angle between the back support surface and the vertical ≤ 70º	59º	Pass
S5.2.1.1(c)	***Head-torso angle***- rearward change ≤ 45º	≤ 45º	Pass

Remarks:

Excursion camera locations (distance forward of point Z) = 813 mm, camera speeds = 1,000 frames per second, and lens focal lengths = 15 mm.

Recorded by: Jay Bullington Date: 2/13/2018

DYNAMIC IMPACT TEST CONDITIONS - TEST 2

(FMVSS 213, S6.1)

Report No.:	213-MGA-18-006
Test Date:	2/13/2018

Sled Test No.	V18014R
Item Code	006-BE9LX66C-02-12CRN2FR

Pulse:

Test Configuration (I or II)	I
Nominal Velocity (km/h)	48 (+0/-3)

Laboratory Ambient Conditions During Testing:

Temperature (ºC)	21.4
Relative Humidity (%)	30

Dummy:

Dummy Description	CRABI 12 Month Old (Part 572R)
Dummy Serial Number	083

Restraint Installation:

Installed Direction	Rear-Facing
Base Usage	Other Configuration
Attachment Method	Lap Belt
Tether Usage	No
Seat Back Position	Reclined
Shoulder Harness Position	Slot 5 of 10, Counted from the Bottom
Buckle Harness Position	Slot 1 of 2, Counted from the Seat Back Outward
Recline Position	Position 3 of 3, Counted from Most Upright
Infant Positioning Pillow	Installed
Shoulder Harness Covers	Installed
Crotch Buckle Cover	Installed
Impact Absorbing Chest Pads	Installed
Lock-offs Used	None

Remarks:

Pre-test and post-test photographs are presented in Section 9.

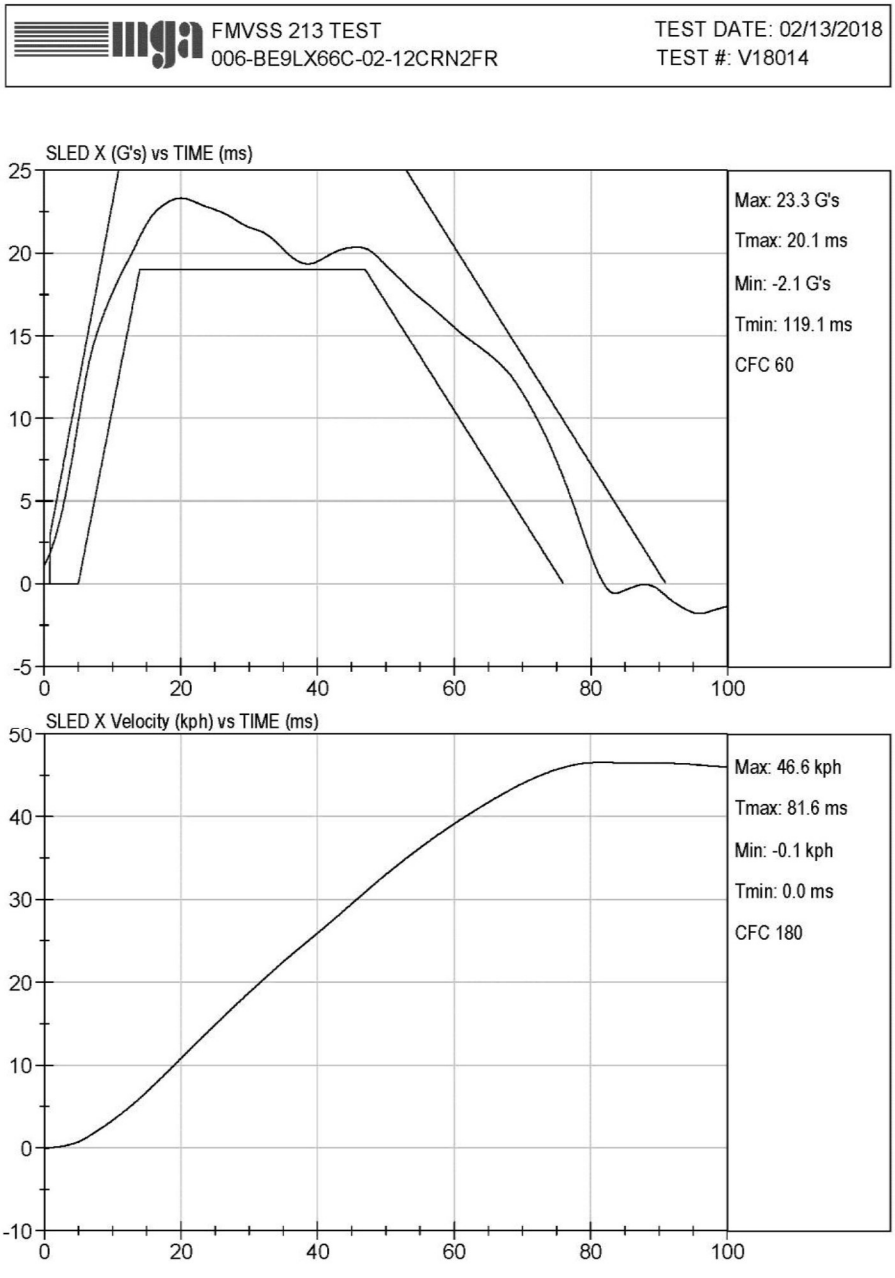
Recorded by: Jay Bullington Date: 2/13/2018

DYNAMIC IMPACT SLED PULSE - TEST 2

(FMVSS 213, S6.1)

Report No.:	213-MGA-18-006
Test Date:	2/13/2018

Sled Test No.	V18014R
Item Code	006-BE9LX66C-02-12CRN2FR



BELT RESTRAINT - TEST 2

(FMVSS 213, S5.4.3)

Report No.:	213-MGA-18-006
Test Date:	2/13/2018

Sled Test No.	V18014R
Item Code	006-BE9LX66C-02-12CRN2FR

Section	Requirement	Pass/Fail
S5.4.3.1	**Snug Fit of Belts**. Belts that are part of the restraint and designed to restrain the child are adjustable to snugly fit any child of height and weight identified by the manufacturer in accordance with the manufacturer's installation instructions.	Pass

Section	Requirement	Yes/No	Pass/Fail
S5.4.3.2	**Direct Restraint**. Belts impose no loads on the child resulting from the mass of the system or the test seat.		Pass
	This restraint has one or more belts that contact the dummy for restraint.	No	If all are "yes," restraint fails S5.4.3.2.
	This restraint has a rigid structure behind the dummy.	Yes	
	The restraint could move relative to the belt.	No	

Section	Requirement	Pass/Fail
S5.4.3.3	**Seating Systems**. Except for harnesses and infant restraints for children up to 10 kg (22 lb), each restraint designed for a child in a seated position and having belts shall provide:	Pass
S5.4.3.3(a)	Upper torso restraint (either belts or a shield)	Pass
S5.4.3.3(b)	Lower torso restraint (either belts or a shield)	Pass
S5.4.3.3(c)	Crotch restraint (either a belt attached to the lap belt or a shield)	Pass

Section	Requirement	Pass/Fail
S5.4.3.4	**Harnesses**. Each harness shall:	N/A
S5.4.3.3(a)	Provide upper torso restraint	N/A
S5.4.3.3(b)	Provide lower torso restraint (lap and crotch restraint)	N/A
S5.4.3.3(c)	Prevent standing	N/A

Remarks:

None

Recorded by: Jay Bullington Date: 2/13/2018

BUCKLE RELEASE - TEST 2

(FMVSS 213, S5.4.3.5, S6.2)

Report No.:	213-MGA-18-006
Test Date:	2/13/2018

Sled Test No.	V18014R
Item Code	006-BE9LX66C-02-12CRN2FR

Section	Requirement	Measurement	Pass/Fail
S5.4.3.5(a)	**Pre-Impact Release Force—** Releases under 40-62 N (9-14 lb)	L: 54 N (12.1 lb) R: 54 N (12.1 lb)	Pass (1)
S5.4.3.5(b)	**Post-Impact Release Force*—** Releases ≤ 71 N (16 lb)	L: 69 N (15.5 lb) R: 69 N (15.5 lb)	Pass (1)
S5.4.3.5(c)	**Minimum Surface Area of Buckle-** ≥ 0.6 in^2 (3.9 cm^2)	0.7 in^2 (4.4 cm^2)	Pass
S5.4.3.5(e)	**Buckle Integrity** Shall not release during testing	No Release	Pass

*Not applicable unless determined using the largest test dummy specified in S7 for use in testing the seat.

Remarks:

(1) The buckle is comprised of right and left buckle tangs that do not always release at the same force.

Recorded by: Jay Bullington Date: 2/13/2018

SYSTEM INTEGRITY - TEST 2

(FMVSS 213, S5.1.1)

Report No.:	213-MGA-18-006
Test Date:	2/13/2018

Sled Test No.	V18014R
Item Code	006-BE9LX66C-02-12CRN2FR

S5.1.1 When dynamically tested, the child restraint system shall:

Section	Requirement	Pass/Fail
S5.1.1(a)	**Structural Integrity-** Exhibit no complete separation of any load bearing structural element	Pass
	Exhibit no partial separation exposing surfaces with a radius of less than ¼ in (9.53 mm)	Pass
	Exhibit no partial separation exposing surfaces with protrusions greater than 3/8 in (6.35 mm)	Pass
S5.1.1(b)(1)	**Adjustment Position-** Remain in the same adjustment position during the test that it was in immediately before the test	Pass
S5.1.1(b)(2)(ii)	**Exposed Openings-** Have no exposed opening larger than ¼ inch (9.53 mm) before the test become smaller during the testing as a result of the movement of the seating surface relative to the restraint system as a whole	Pass
S5.1.1(c)	**Seating Surface Angle-** Forward facing restraints do not allow the angle between the system's back support surface and seating surface to be less than 45 degrees at the completion of the test.	N/A

Remarks:

None

Recorded by: Jay Bullington Date: 2/13/2018

INJURY CRITERIA - TEST 2

(FMVSS 213, S5.1.2)

Report No.:	213-MGA-18-006
Test Date:	2/13/2018

Sled Test No.	V18014R
Item Code	006-BE9LX66C-02-12CRN2FR

Section	Requirement
S5.1.2.1(a)	**Head Injury Criterion**- The maximum calculated head injury criterion for a 36 millisecond time interval (HIC36) shall not exceed 1,000. HIC is not calculated when using the 6-year-old weighted and 10-year-old test dummies.
S5.1.2.1(b)	**Chest Injury Criterion**- The chest acceleration shall not exceed 60g for intervals whose cumulative duration is more than 3 milliseconds.

Head Injury Criterion Results

Calculated HIC36	Pass/Fail
316	Pass

Chest Injury Criterion Results

Max acceleration lasting 3 ms (g)	Pass/Fail
42	Pass

Remarks:

None

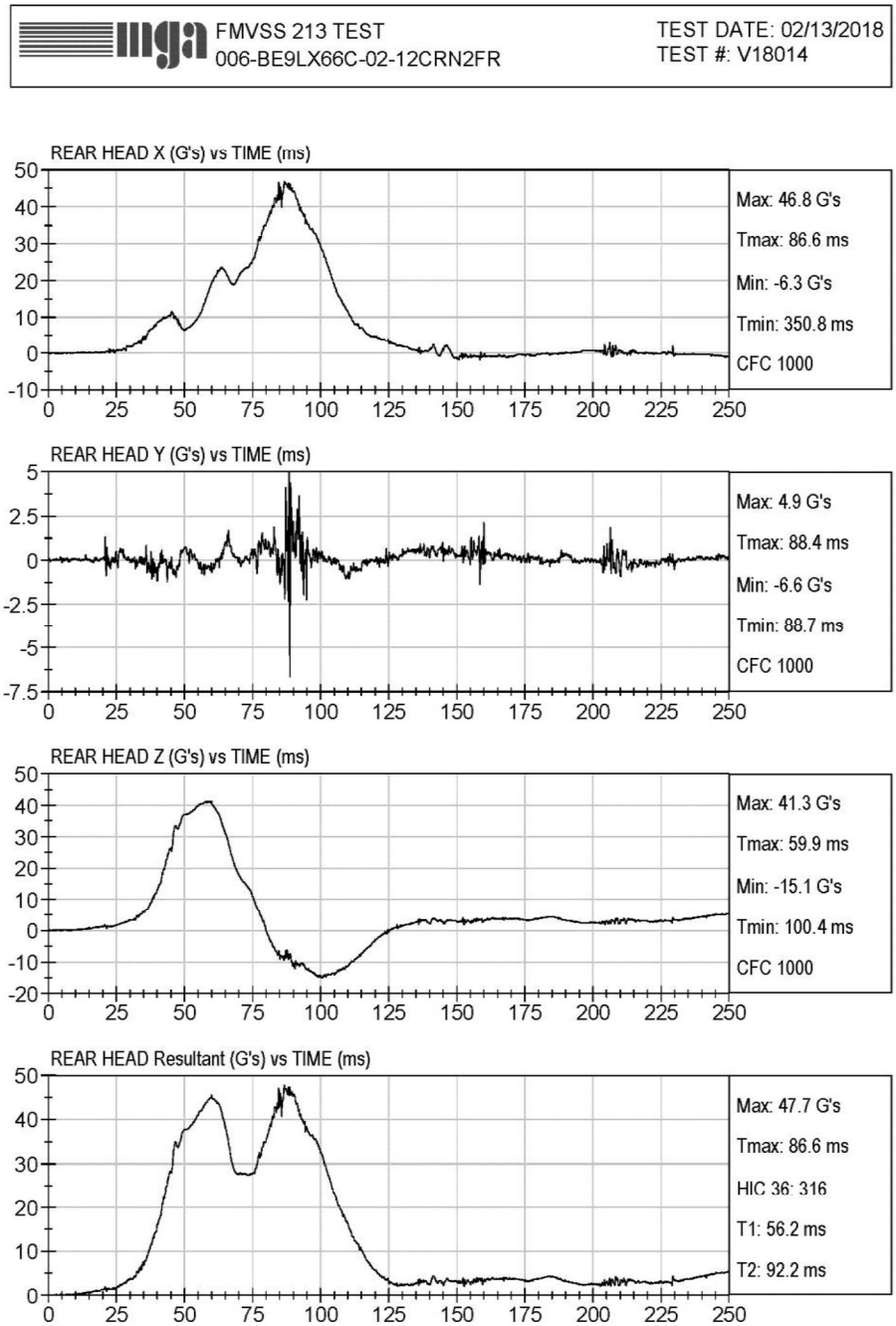
Recorded by: Jay Bullington Date: 2/13/2018

INJURY CRITERIA - HEAD ACCELERATION PLOTS - TEST 2

(FMVSS 213, S5.1.2)

Report No.:	213-MGA-18-006
Test Date:	2/13/2018

Sled Test No.	V18014R
Item Code	006-BE9LX66C-02-12CRN2FR

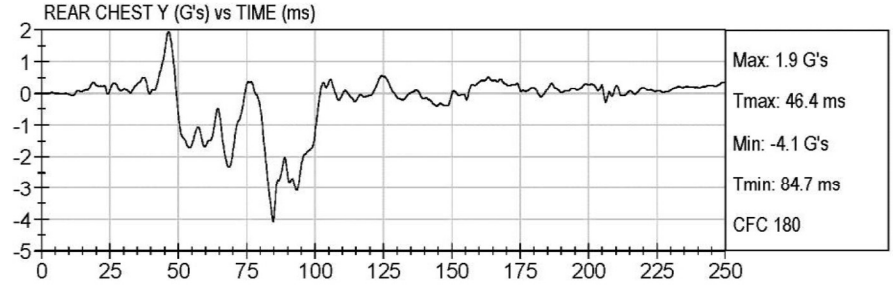


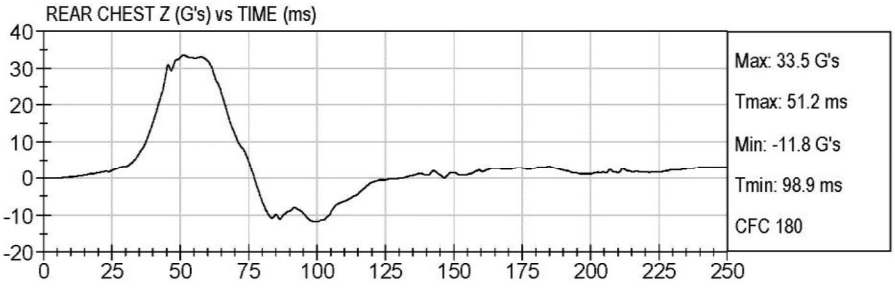
INJURY CRITERIA - CHEST ACCELERATION PLOTS - TEST 2

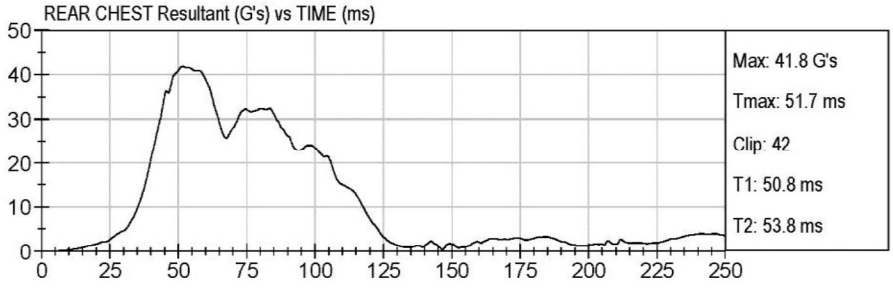
(FMVSS 213, S5.1.2)

Report No.:	213-MGA-18-006
Test Date:	2/13/2018

Sled Test No.	V18014R
Item Code	006-BE9LX66C-02-12CRN2FR







OCCUPANT EXCURSION - TEST 2

(FMVSS 213, S5.1.3, S5.1.4, S5.2.1.1(c))

Report No.:	213-MGA-18-006
Test Date:	2/13/2018

Sled Test No.	V18014R
Item Code	006-BE9LX66C-02-12CRN2FR

FORWARD-FACING RESTRAINTS

Section	Requirement	Measurement	Pass/Fail
S5.1.3.1	***Torso retention***—CRS shall retain the torso within system		N/A
S5.1.3.1(a)(1)	***Head excursion***- ≤ 720 mm (28 in) with tether ≤ 813 mm (32 in) no tether	N/A	N/A
S5.1.3.1(a)(2)	***Knee target excursion***- ≤ 915 mm (36 in)	N/A	N/A
S5.2.1.1(c)	***Head-torso angle***- rearward change ≤ 45º	N/A	N/A

REAR-FACING RESTRAINTS

Section	Requirement	Measurement	Pass/Fail
S5.1.3.2	***Torso retention***—CRS shall retain the torso within system		Pass
S5.1.3.2	***Head target excursion***-Not beyond restraint's top and forward edge		Pass
S5.1.4	***Back support angle***- Angle between the back support surface and the vertical ≤ 70º	61º	Pass
S5.2.1.1(c)	***Head-torso angle***- rearward change ≤ 45º	≤ 45º	Pass

Remarks:

Excursion camera locations (distance forward of point Z) = 813 mm, camera speeds = 1,000 frames per second, and lens focal lengths = 15 mm.

Recorded by: Jay Bullington Date: 2/13/2018

DYNAMIC IMPACT TEST CONDITIONS - TEST 3

(FMVSS 213, S6.1)

Report No.:	213-MGA-18-006
Test Date:	2/14/2018

Sled Test No.	V18022F
Item Code	006-BE9LX66C-03-6H3FN2TU

Pulse:

Test Configuration (I or II)	I
Nominal Velocity (km/h)	48 (+0/-3)

Laboratory Ambient Conditions During Testing:

Temperature (ºC)	21.1
Relative Humidity (%)	30

Dummy:

Dummy Description	Hybrid III 6 Year Old (Part 572N)
Dummy Serial Number	155

Restraint Installation:

Installed Direction	Forward-Facing
Base Usage	Other Configuration
Attachment Method	Lap Belt
Tether Usage	Yes
Seat Back Position	Upright
Shoulder Harness Position	Slot 10 of 10, Counted from the Bottom
Buckle Harness Position	Slot 2 of 2, Counted from the Seat Back Outward
Recline Position	Position 1 of 3, Counted from Most Upright
Infant Positioning Pillow	Removed
Shoulder Harness Covers	Installed
Crotch Buckle Cover	Installed
Impact Absorbing Chest Pads	Installed
Lock-offs Used	None

Remarks:

Pre-test and post-test photographs are presented in Section 9.

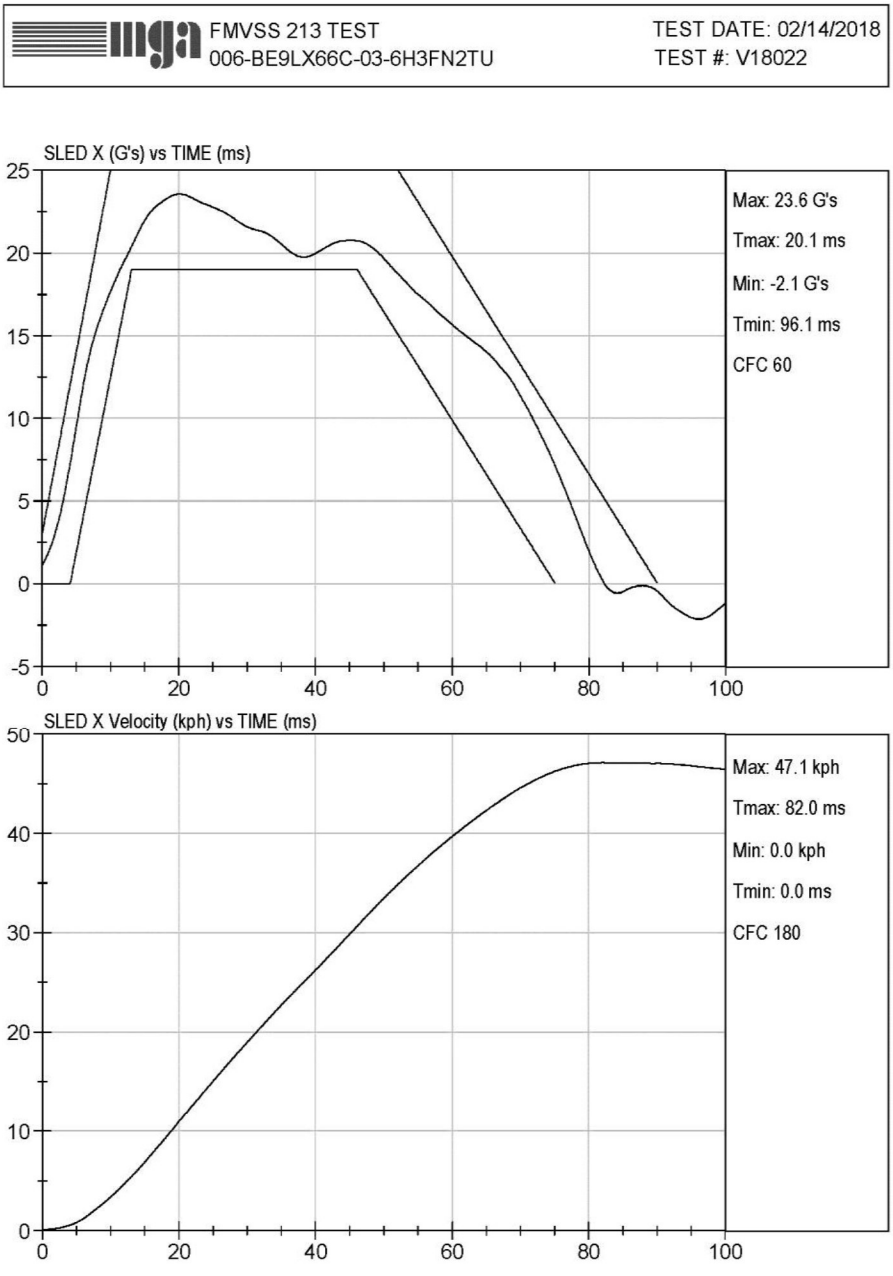
Recorded by: Jay Bullington Date: 2/14/2018

DYNAMIC IMPACT SLED PULSE - TEST 3

(FMVSS 213, S6.1)

Report No.:	213-MGA-18-006
Test Date:	2/14/2018

Sled Test No.	V18022F
Item Code	006-BE9LX66C-03-6H3FN2TU



BELT RESTRAINT - TEST 3

(FMVSS 213, S5.4.3)

Report No.:	213-MGA-18-006
Test Date:	2/14/2018

Sled Test No.	V18022F
Item Code	006-BE9LX66C-03-6H3FN2TU

Section	Requirement	Pass/Fail
S5.4.3.1	**Snug Fit of Belts**. Belts that are part of the restraint and designed to restrain the child are adjustable to snugly fit any child of height and weight identified by the manufacturer in accordance with the manufacturer's installation instructions.	Pass

Section	Requirement	Yes/No	Pass/Fail
S5.4.3.2	**Direct Restraint**. Belts impose no loads on the child resulting from the mass of the system or the test seat.		Pass
	This restraint has one or more belts that contact the dummy for restraint.	No	If all are "yes," restraint fails S5.4.3.2.
	This restraint has a rigid structure behind the dummy.	Yes	
	The restraint could move relative to the belt.	No	

Section	Requirement	Pass/Fail
S5.4.3.3	**Seating Systems**. Except for harnesses and infant restraints for children up to 10 kg (22 lb), each restraint designed for a child in a seated position and having belts shall provide:	Pass
S5.4.3.3(a)	Upper torso restraint (either belts or a shield)	Pass
S5.4.3.3(b)	Lower torso restraint (either belts or a shield)	Pass
S5.4.3.3(c)	Crotch restraint (either a belt attached to the lap belt or a shield)	Pass

Section	Requirement	Pass/Fail
S5.4.3.4	**Harnesses**. Each harness shall:	N/A
S5.4.3.3(a)	Provide upper torso restraint	N/A
S5.4.3.3(b)	Provide lower torso restraint (lap and crotch restraint)	N/A
S5.4.3.3(c)	Prevent standing	N/A

Remarks:

None

Recorded by: Jay Bullington Date: 2/14/2018

BUCKLE RELEASE - TEST 3

(FMVSS 213, S5.4.3.5, S6.2)

Report No.:	213-MGA-18-006
Test Date:	2/14/2018

Sled Test No.	V18022F
Item Code	006-BE9LX66C-03-6H3FN2TU

Section	Requirement	Measurement	Pass/Fail
S5.4.3.5(a)	**Pre-Impact Release Force—** Releases under 40-62 N (9-14 lb)	L: 59 N (13.3 lb) R: 59 N (13.3 lb)	Pass (1)
S5.4.3.5(b)	**Post-Impact Release Force*—** Releases ≤ 71 N (16 lb)	L: 57 N (12.8 lb) R: 57 N (12.8 lb)	Pass (1)
S5.4.3.5(c)	**Minimum Surface Area of Buckle-** ≥ 0.6 in^2 (3.9 cm^2)	0.7 in^2 (4.4 cm^2)	Pass
S5.4.3.5(e)	**Buckle Integrity** Shall not release during testing	No Release	Pass

*Not applicable unless determined using the largest test dummy specified in S7 for use in testing the seat.

Remarks:

(1) The buckle is comprised of right and left buckle tangs that do not always release at the same force.

Recorded by: Jay Bullington Date: 2/14/2018

SYSTEM INTEGRITY - TEST 3

(FMVSS 213, S5.1.1)

Report No.:	213-MGA-18-006
Test Date:	2/14/2018

Sled Test No.	V18022F
Item Code	006-BE9LX66C-03-6H3FN2TU

S5.1.1 When dynamically tested, the child restraint system shall:

Section	Requirement	Pass/Fail
S5.1.1(a)	**Structural Integrity-** Exhibit no complete separation of any load bearing structural element	Pass
	Exhibit no partial separation exposing surfaces with a radius of less than ¼ in (9.53 mm)	Pass
	Exhibit no partial separation exposing surfaces with protrusions greater than 3/8 in (6.35 mm)	Pass
S5.1.1(b)(1)	**Adjustment Position-** Remain in the same adjustment position during the test that it was in immediately before the test	Pass
S5.1.1(b)(2)(ii)	**Exposed Openings-** Have no exposed opening larger than ¼ inch (9.53 mm) before the test become smaller during the testing as a result of the movement of the seating surface relative to the restraint system as a whole	Pass
S5.1.1(c)	**Seating Surface Angle-** Forward facing restraints do not allow the angle between the system's back support surface and seating surface to be less than 45 degrees at the completion of the test.	Pass

Remarks:

None

Recorded by: Jay Bullington Date: 2/14/2018

INJURY CRITERIA - TEST 3

(FMVSS 213, S5.1.2)

Report No.:	213-MGA-18-006
Test Date:	2/14/2018

Sled Test No.	V18022F
Item Code	006-BE9LX66C-03-6H3FN2TU

Section	Requirement
S5.1.2.1(a)	**Head Injury Criterion**- The maximum calculated head injury criterion for a 36 millisecond time interval (HIC36) shall not exceed 1,000. HIC is not calculated when using the 6-year-old weighted and 10-year-old test dummies.
S5.1.2.1(b)	**Chest Injury Criterion**- The chest acceleration shall not exceed 60g for intervals whose cumulative duration is more than 3 milliseconds.

Head Injury Criterion Results

Calculated HIC36	Pass/Fail
462	Pass

Chest Injury Criterion Results

Max acceleration lasting 3 ms (g)	Pass/Fail
51	Pass

Remarks:

None

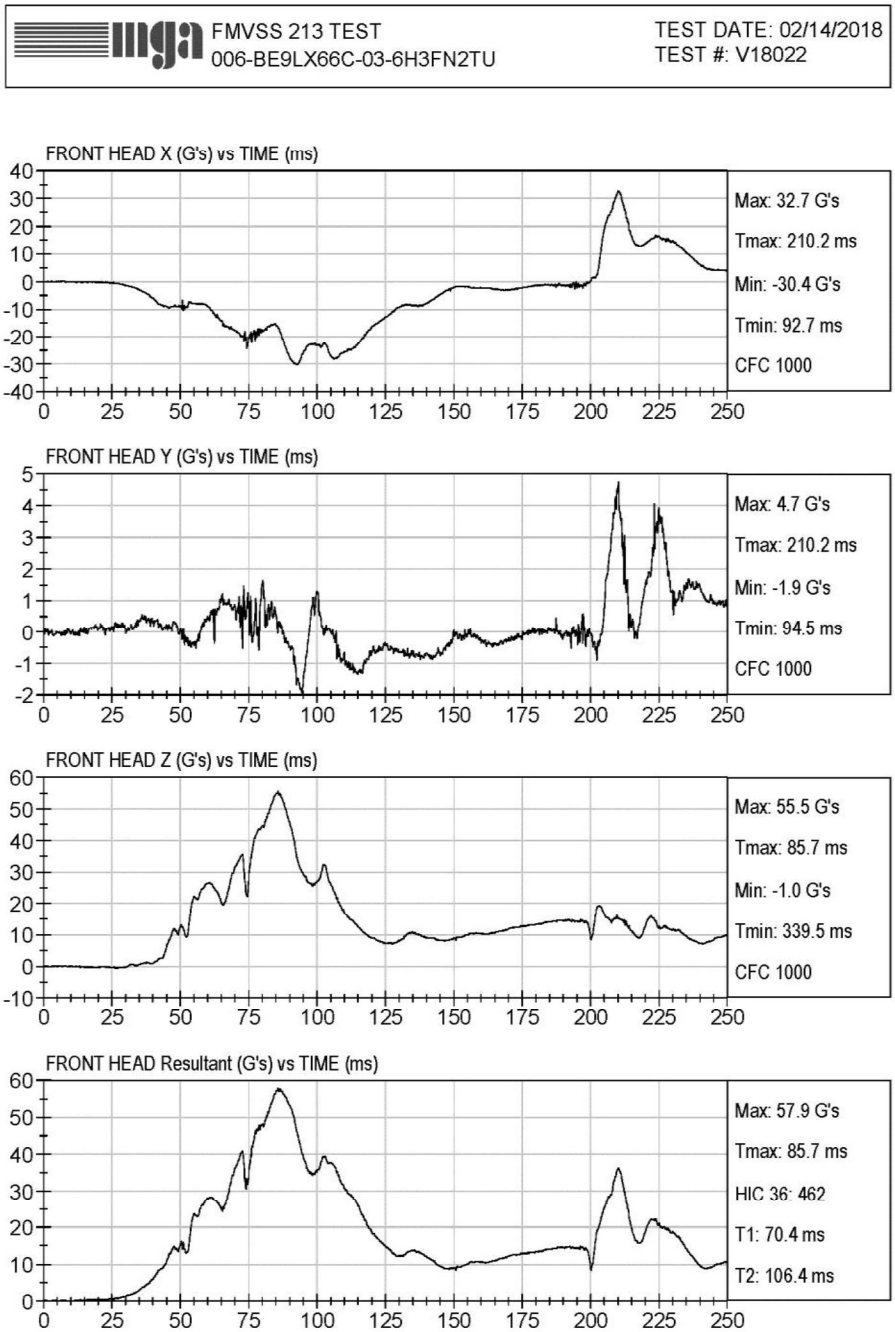
Recorded by: Jay Bullington Date: 2/14/2018

INJURY CRITERIA - HEAD ACCELERATION PLOTS - TEST 3

(FMVSS 213, S5.1.2)

Report No.:	213-MGA-18-006
Test Date:	2/14/2018

Sled Test No.	V18022F
Item Code	006-BE9LX66C-03-6H3FN2TU

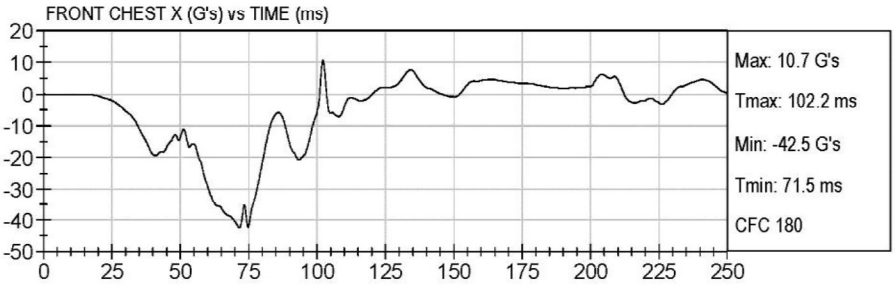


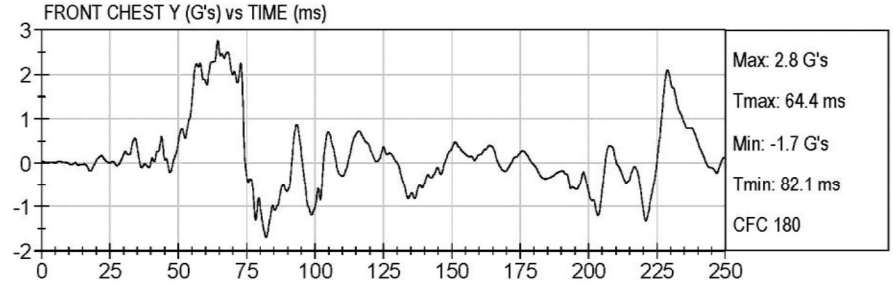
INJURY CRITERIA - CHEST ACCELERATION PLOTS - TEST 3

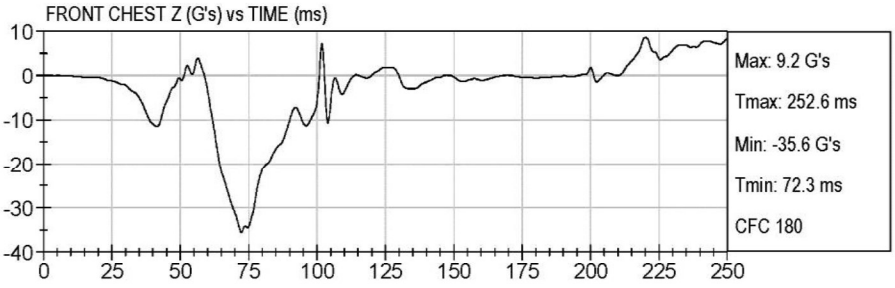
(FMVSS 213, S5.1.2)

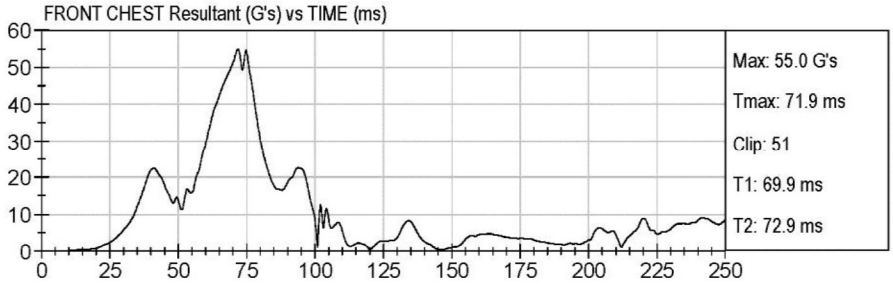
Report No.:	213-MGA-18-006
Test Date:	2/14/2018

Sled Test No.	V18022F
Item Code	006-BE9LX66C-03-6H3FN2TU









OCCUPANT EXCURSION - TEST 3

(FMVSS 213, S5.1.3, S5.1.4, S5.2.1.1(c))

Report No.:	213-MGA-18-006
Test Date:	2/14/2018

Sled Test No.	V18022F
Item Code	006-BE9LX66C-03-6H3FN2TU

FORWARD-FACING RESTRAINTS

Section	Requirement	Measurement	Pass/Fail
S5.1.3.1	***Torso retention***—CRS shall retain the torso within system		Pass
S5.1.3.1(a)(1)	***Head excursion***- ≤ 720 mm (28 in) with tether ≤ 813 mm (32 in) no tether	639 mm (25.2 in)	Pass
S5.1.3.1(a)(2)	***Knee target excursion***- ≤ 915 mm (36 in)	813 mm (32.0 in)	Pass
S5.2.1.1(c)	***Head-torso angle***- rearward change ≤ 45º	≤ 45º	Pass

REAR-FACING RESTRAINTS

Section	Requirement	Measurement	Pass/Fail
S5.1.3.2	***Torso retention***—CRS shall retain the torso within system		N/A
S5.1.3.2	***Head target excursion***-Not beyond restraint's top and forward edge		N/A
S5.1.4	***Back support angle***- Angle between the back support surface and the vertical ≤ 70º	N/A	N/A
S5.2.1.1(c)	***Head-torso angle***- rearward change ≤ 45º	N/A	N/A

Remarks:

Excursion camera locations (distance forward of point Z) = 813 mm, camera speeds = 1,000 frames per second, and lens focal lengths = 15 mm.

Recorded by: Jay Bullington Date: 2/14/2018

DYNAMIC IMPACT TEST CONDITIONS - TEST 4

(FMVSS 213, S6.1)

Report No.:	213-MGA-18-006
Test Date:	2/14/2018

Sled Test No.	V18022R
Item Code	006-BE9LX66C-04-3H3FNLTU

Pulse:

Test Configuration (I or II)	I
Nominal Velocity (km/h)	48 (+0/-3)

Laboratory Ambient Conditions During Testing:

Temperature (ºC)	21.1
Relative Humidity (%)	30

Dummy:

Dummy Description	Hybrid III 3 Year Old (Part 572P)
Dummy Serial Number	031

Restraint Installation:

Installed Direction	Forward-Facing
Base Usage	Other Configuration
Attachment Method	Lower Anchor
Tether Usage	Yes
Seat Back Position	Upright
Shoulder Harness Position	Slot 7 of 10, Counted from the Bottom
Buckle Harness Position	Slot 2 of 2, Counted from the Seat Back Outward
Recline Position	Position 1 of 3, Counted from Most Upright
Infant Positioning Pillow	Removed
Shoulder Harness Covers	Installed
Crotch Buckle Cover	Installed
Impact Absorbing Chest Pads	Installed
Lock-offs Used	None

Remarks:

Pre-test and post-test photographs are presented in Section 9.

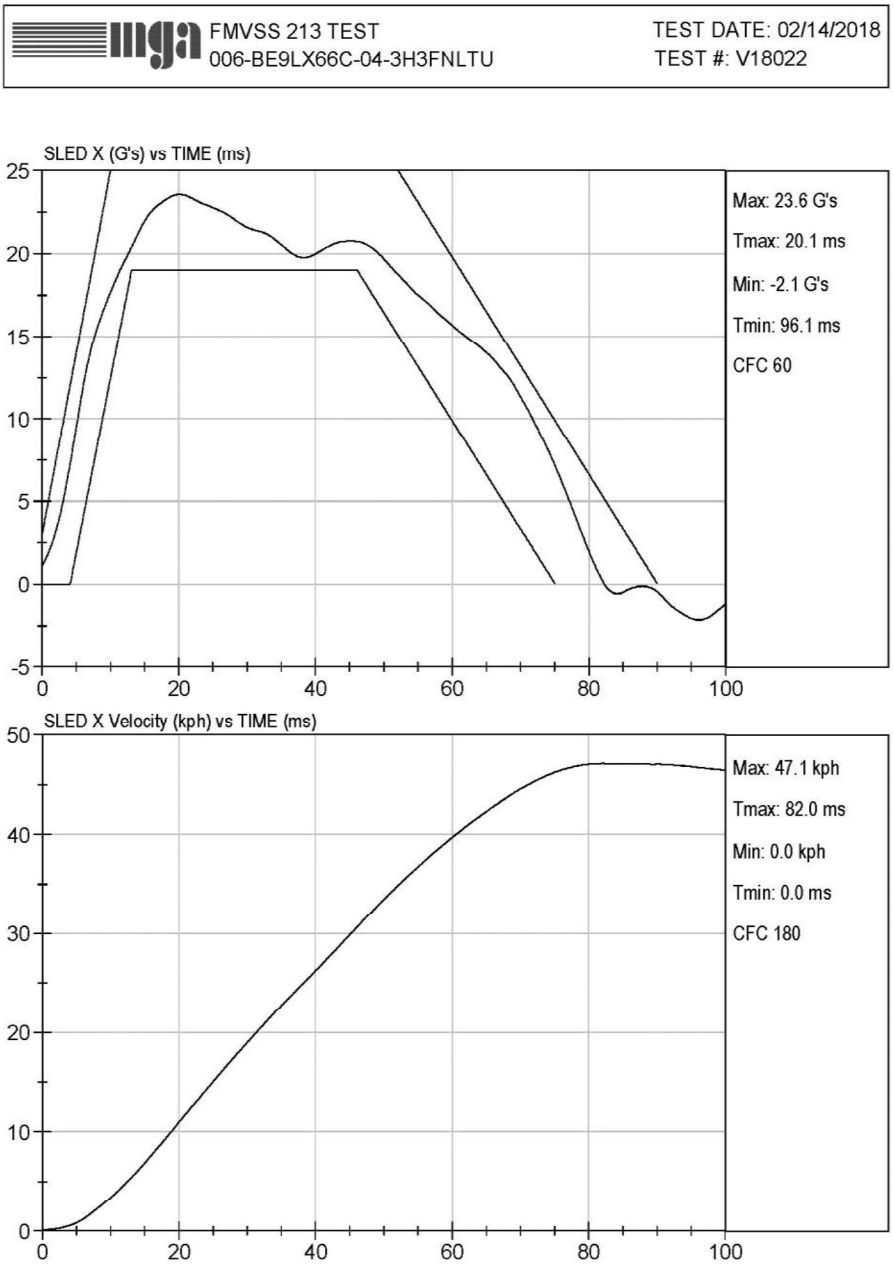
Recorded by: Jay Bullington Date: 2/14/2018

DYNAMIC IMPACT SLED PULSE - TEST 4

(FMVSS 213, S6.1)

Report No.:	213-MGA-18-006
Test Date:	2/14/2018

Sled Test No.	V18022R
Item Code	006-BE9LX66C-04-3H3FNLTU



BELT RESTRAINT - TEST 4

(FMVSS 213, S5.4.3)

Report No.:	213-MGA-18-006
Test Date:	2/14/2018

Sled Test No.	V18022R
Item Code	006-BE9LX66C-04-3H3FNLTU

Section	Requirement	Pass/Fail
S5.4.3.1	**Snug Fit of Belts**. Belts that are part of the restraint and designed to restrain the child are adjustable to snugly fit any child of height and weight identified by the manufacturer in accordance with the manufacturer's installation instructions.	Pass

Section	Requirement	Yes/No	Pass/Fail
S5.4.3.2	**Direct Restraint**. Belts impose no loads on the child resulting from the mass of the system or the test seat.		Pass
	This restraint has one or more belts that contact the dummy for restraint.	No	If all are "yes," restraint fails S5.4.3.2.
	This restraint has a rigid structure behind the dummy.	Yes	
	The restraint could move relative to the belt.	No	

Section	Requirement	Pass/Fail
S5.4.3.3	**Seating Systems**. Except for harnesses and infant restraints for children up to 10 kg (22 lb), each restraint designed for a child in a seated position and having belts shall provide:	Pass
S5.4.3.3(a)	Upper torso restraint (either belts or a shield)	Pass
S5.4.3.3(b)	Lower torso restraint (either belts or a shield)	Pass
S5.4.3.3(c)	Crotch restraint (either a belt attached to the lap belt or a shield)	Pass

Section	Requirement	Pass/Fail
S5.4.3.4	**Harnesses**. Each harness shall:	N/A
S5.4.3.3(a)	Provide upper torso restraint	N/A
S5.4.3.3(b)	Provide lower torso restraint (lap and crotch restraint)	N/A
S5.4.3.3(c)	Prevent standing	N/A

Remarks:

None

Recorded by: Jay Bullington Date: 2/14/2018

BUCKLE RELEASE - TEST 4

(FMVSS 213, S5.4.3.5, S6.2)

Report No.:	213-MGA-18-006
Test Date:	2/14/2018

Sled Test No.	V18022R
Item Code	006-BE9LX66C-04-3H3FNLTU

Section	Requirement	Measurement	Pass/Fail
S5.4.3.5(a)	**Pre-Impact Release Force—** Releases under 40-62 N (9-14 lb)	L: 55 N (12.4 lb) R: 55 N (12.4 lb)	Pass (1)
S5.4.3.5(b)	**Post-Impact Release Force*—** Releases ≤ 71 N (16 lb)	L: 67 N (15.1 lb) R: 67 N (15.1 lb)	Pass (1)
S5.4.3.5(c)	**Minimum Surface Area of Buckle-** ≥ 0.6 in^2 (3.9 cm^2)	0.7 in^2 (4.4 cm^2)	Pass
S5.4.3.5(e)	**Buckle Integrity** Shall not release during testing	No Release	Pass

*Not applicable unless determined using the largest test dummy specified in S7 for use in testing the seat.

Remarks:

(1) The buckle is comprised of right and left buckle tangs that do not always release at the same force.

Recorded by: Jay Bullington Date: 2/14/2018

SYSTEM INTEGRITY - TEST 4

(FMVSS 213, S5.1.1)

Report No.:	213-MGA-18-006
Test Date:	2/14/2018

Sled Test No.	V18022R
Item Code	006-BE9LX66C-04-3H3FNLTU

S5.1.1 When dynamically tested, the child restraint system shall:

Section	Requirement	Pass/Fail
S5.1.1(a)	**Structural Integrity-** Exhibit no complete separation of any load bearing structural element	Pass
	Exhibit no partial separation exposing surfaces with a radius of less than ¼ in (9.53 mm)	Pass
	Exhibit no partial separation exposing surfaces with protrusions greater than 3/8 in (6.35 mm)	Pass
S5.1.1(b)(1)	**Adjustment Position-** Remain in the same adjustment position during the test that it was in immediately before the test	Pass
S5.1.1(b)(2)(ii)	**Exposed Openings-** Have no exposed opening larger than ¼ inch (9.53 mm) before the test become smaller during the testing as a result of the movement of the seating surface relative to the restraint system as a whole	Pass
S5.1.1(c)	**Seating Surface Angle-** Forward facing restraints do not allow the angle between the system's back support surface and seating surface to be less than 45 degrees at the completion of the test.	Pass

Remarks:

None

Recorded by: Jay Bullington Date: 2/14/2018

INJURY CRITERIA - TEST 4

(FMVSS 213, S5.1.2)

Report No.:	213-MGA-18-006
Test Date:	2/14/2018

Sled Test No.	V18022R
Item Code	006-BE9LX66C-04-3H3FNLTU

Section	Requirement
S5.1.2.1(a)	**Head Injury Criterion**- The maximum calculated head injury criterion for a 36 millisecond time interval (HIC36) shall not exceed 1,000. HIC is not calculated when using the 6-year-old weighted and 10-year-old test dummies.
S5.1.2.1(b)	**Chest Injury Criterion**- The chest acceleration shall not exceed 60g for intervals whose cumulative duration is more than 3 milliseconds.

Head Injury Criterion Results

Calculated HIC36	Pass/Fail
280	Pass

Chest Injury Criterion Results

Max acceleration lasting 3 ms (g)	Pass/Fail
37	Pass

Remarks:

None

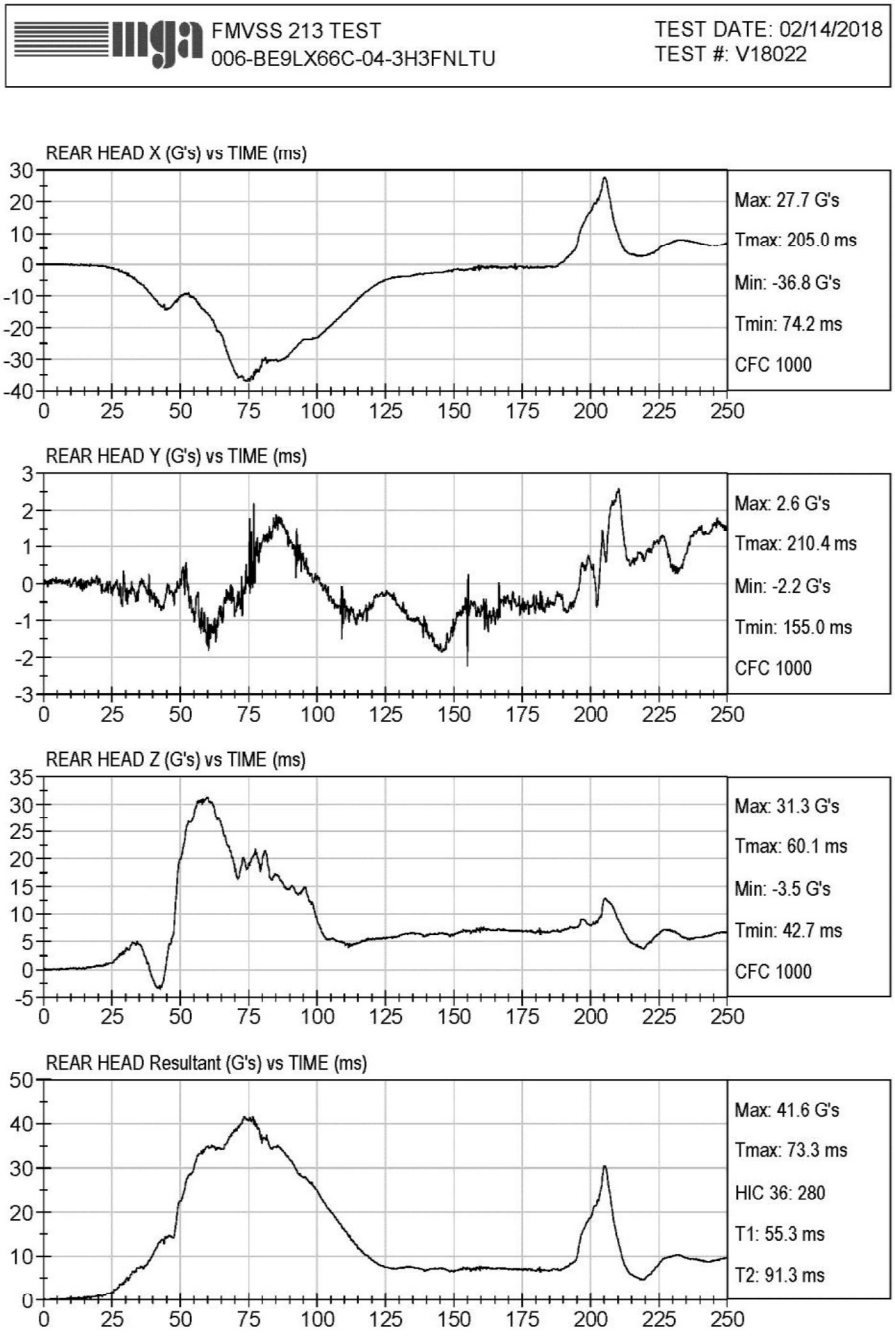
Recorded by: Jay Bullington Date: 2/14/2018

INJURY CRITERIA - HEAD ACCELERATION PLOTS - TEST 4

(FMVSS 213, S5.1.2)

Report No.:	213-MGA-18-006
Test Date:	2/14/2018

Sled Test No.	V18022R
Item Code	006-BE9LX66C-04-3H3FNLTU

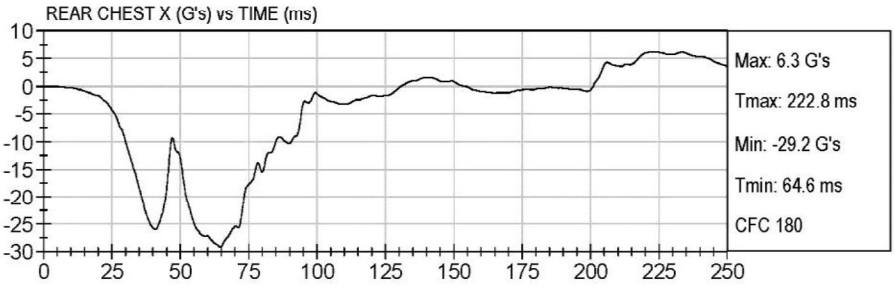


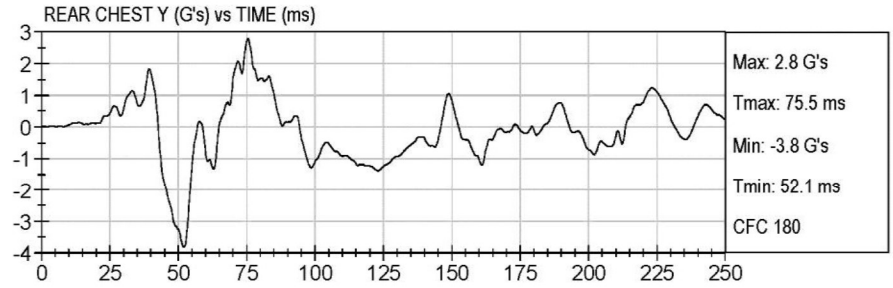
INJURY CRITERIA - CHEST ACCELERATION PLOTS - TEST 4

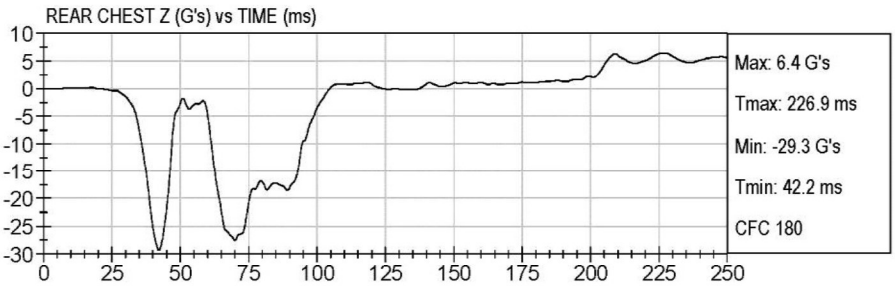
(FMVSS 213, S5.1.2)

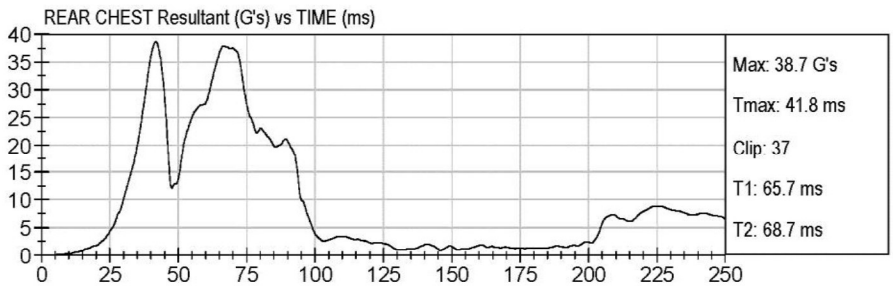
Report No.:	213-MGA-18-006
Test Date:	2/14/2018

Sled Test No.	V18022R
Item Code	006-BE9LX66C-04-3H3FNLTU









OCCUPANT EXCURSION - TEST 4

(FMVSS 213, S5.1.3, S5.1.4, S5.2.1.1(c))

Report No.:	213-MGA-18-006
Test Date:	2/14/2018

Sled Test No.	V18022R
Item Code	006-BE9LX66C-04-3H3FNLTU

FORWARD-FACING RESTRAINTS

Section	Requirement	Measurement	Pass/Fail
S5.1.3.1	***Torso retention***—CRS shall retain the torso within system		Pass
S5.1.3.1(a)(1)	***Head excursion***- ≤ 720 mm (28 in) with tether ≤ 813 mm (32 in) no tether	563 mm (22.2 in)	Pass
S5.1.3.1(a)(2)	***Knee target excursion***- ≤ 915 mm (36 in)	659 mm (25.9 in)	Pass
S5.2.1.1(c)	***Head-torso angle***- rearward change ≤ 45º	≤ 45º	Pass

REAR-FACING RESTRAINTS

Section	Requirement	Measurement	Pass/Fail
S5.1.3.2	***Torso retention***—CRS shall retain the torso within system		N/A
S5.1.3.2	***Head target excursion***-Not beyond restraint's top and forward edge		N/A
S5.1.4	***Back support angle***- Angle between the back support surface and the vertical ≤ 70º	N/A	N/A
S5.2.1.1(c)	***Head-torso angle***- rearward change ≤ 45º	N/A	N/A

Remarks:

Excursion camera locations (distance forward of point Z) = 813 mm, camera speeds = 1,000 frames per second, and lens focal lengths = 15 mm.

Recorded by: Jay Bullington Date: 2/14/2018

DYNAMIC IMPACT TEST CONDITIONS - TEST 5

(FMVSS 213, S6.1)

Report No.:	213-MGA-18-006
Test Date:	2/16/2018

Sled Test No.	V18045F
Item Code	006-BE9LX66C-05-12CFNLTU

Pulse:

Test Configuration (I or II)	I
Nominal Velocity (km/h)	48 (+0/-3)

Laboratory Ambient Conditions During Testing:

Temperature (ºC)	21.9
Relative Humidity (%)	39

Dummy:

Dummy Description	CRABI 12 Month Old (Part 572R)
Dummy Serial Number	083

Restraint Installation:

Installed Direction	Forward-Facing
Base Usage	Other Configuration
Attachment Method	Lower Anchor
Tether Usage	Yes
Seat Back Position	Upright
Shoulder Harness Position	Slot 6 of 10, Counted from the Bottom
Buckle Harness Position	Slot 1 of 2, Counted from the Seat Back Outward
Recline Position	Position 1 of 3, Counted from Most Upright
Infant Positioning Pillow	Removed
Shoulder Harness Covers	Installed
Crotch Buckle Cover	Installed
Impact Absorbing Chest Pads	Installed
Lock-offs Used	None

Remarks:

Pre-test and post-test photographs are presented in Section 9.

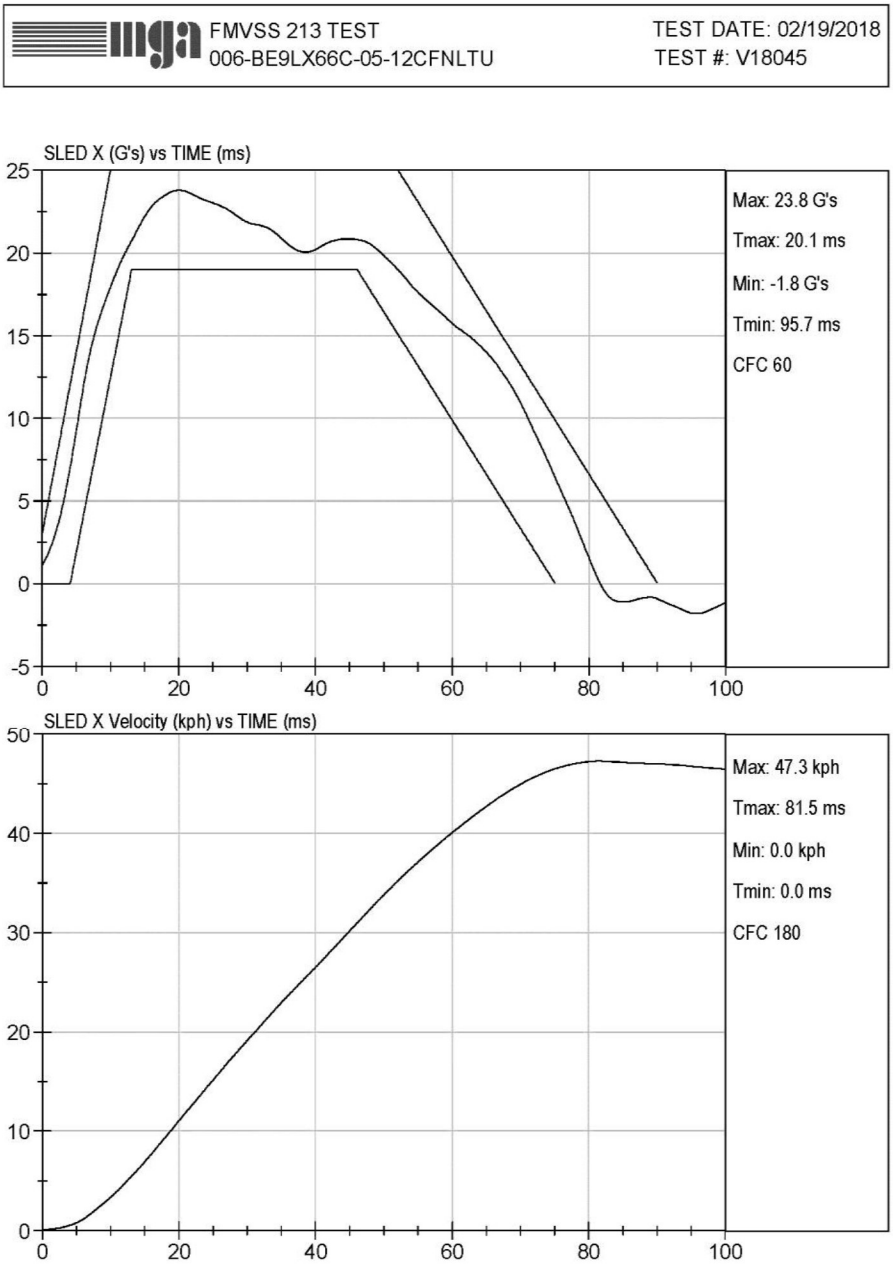
Recorded by: Jay Bullington Date: 2/16/2018

DYNAMIC IMPACT SLED PULSE - TEST 5

(FMVSS 213, S6.1)

Report No.:	213-MGA-18-006
Test Date:	2/16/2018

Sled Test No.	V18045F
Item Code	006-BE9LX66C-05-12CFNLTU



BELT RESTRAINT - TEST 5

(FMVSS 213, S5.4.3)

Report No.:	213-MGA-18-006
Test Date:	2/16/2018

Sled Test No.	V18045F
Item Code	006-BE9LX66C-05-12CFNLTU

Section	Requirement	Pass/Fail
S5.4.3.1	**Snug Fit of Belts**. Belts that are part of the restraint and designed to restrain the child are adjustable to snugly fit any child of height and weight identified by the manufacturer in accordance with the manufacturer's installation instructions.	Pass

Section	Requirement	Yes/No	Pass/Fail
S5.4.3.2	**Direct Restraint**. Belts impose no loads on the child resulting from the mass of the system or the test seat.		Pass
	This restraint has one or more belts that contact the dummy for restraint.	No	If all are "yes," restraint fails S5.4.3.2.
	This restraint has a rigid structure behind the dummy.	Yes	
	The restraint could move relative to the belt.	No	

Section	Requirement	Pass/Fail
S5.4.3.3	**Seating Systems**. Except for harnesses and infant restraints for children up to 10 kg (22 lb), each restraint designed for a child in a seated position and having belts shall provide:	Pass
S5.4.3.3(a)	Upper torso restraint (either belts or a shield)	Pass
S5.4.3.3(b)	Lower torso restraint (either belts or a shield)	Pass
S5.4.3.3(c)	Crotch restraint (either a belt attached to the lap belt or a shield)	Pass

Section	Requirement	Pass/Fail
S5.4.3.4	**Harnesses**. Each harness shall:	N/A
S5.4.3.3(a)	Provide upper torso restraint	N/A
S5.4.3.3(b)	Provide lower torso restraint (lap and crotch restraint)	N/A
S5.4.3.3(c)	Prevent standing	N/A

Remarks:

None

Recorded by: Jay Bullington Date: 2/16/2018

BUCKLE RELEASE - TEST 5

(FMVSS 213, S5.4.3.5, S6.2)

Report No.:	213-MGA-18-006
Test Date:	2/16/2018

Sled Test No.	V18045F
Item Code	006-BE9LX66C-05-12CFNLTU

Section	Requirement	Measurement	Pass/Fail
S5.4.3.5(a)	**Pre-Impact Release Force—** Releases under 40-62 N (9-14 lb)	L: 51 N (11.5 lb) R: 51 N (11.5 lb)	Pass (1)
S5.4.3.5(b)	**Post-Impact Release Force*—** Releases ≤ 71 N (16 lb)	L: 61 N (13.7 lb) R: 61 N (13.7 lb)	Pass (1)
S5.4.3.5(c)	**Minimum Surface Area of Buckle-** ≥ 0.6 in^2 (3.9 cm^2)	0.7 in^2 (4.4 cm^2)	Pass
S5.4.3.5(e)	**Buckle Integrity** Shall not release during testing	No Release	Pass

*Not applicable unless determined using the largest test dummy specified in S7 for use in testing the seat.

Remarks:

(1) The buckle is comprised of right and left buckle tangs that do not always release at the same force.

Recorded by: Jay Bullington Date: 2/16/2018

SYSTEM INTEGRITY - TEST 5

(FMVSS 213, S5.1.1)

Report No.:	213-MGA-18-006
Test Date:	2/16/2018

Sled Test No.	V18045F
Item Code	006-BE9LX66C-05-12CFNLTU

S5.1.1 When dynamically tested, the child restraint system shall:

Section	Requirement	Pass/Fail
S5.1.1(a)	**Structural Integrity-** Exhibit no complete separation of any load bearing structural element	Pass
	Exhibit no partial separation exposing surfaces with a radius of less than ¼ in (9.53 mm)	Pass
	Exhibit no partial separation exposing surfaces with protrusions greater than 3/8 in (6.35 mm)	Pass
S5.1.1(b)(1)	**Adjustment Position-** Remain in the same adjustment position during the test that it was in immediately before the test	Pass
S5.1.1(b)(2)(ii)	**Exposed Openings-** Have no exposed opening larger than ¼ inch (9.53 mm) before the test become smaller during the testing as a result of the movement of the seating surface relative to the restraint system as a whole	Pass
S5.1.1(c)	**Seating Surface Angle-** Forward facing restraints do not allow the angle between the system's back support surface and seating surface to be less than 45 degrees at the completion of the test.	Pass

Remarks:

None

Recorded by: Jay Bullington Date: 2/16/2018

INJURY CRITERIA - TEST 5

(FMVSS 213, S5.1.2)

Report No.:	213-MGA-18-006
Test Date:	2/16/2018

Sled Test No.	V18045F
Item Code	006-BE9LX66C-05-12CFNLTU

Section	Requirement
S5.1.2.1(a)	**Head Injury Criterion**- The maximum calculated head injury criterion for a 36 millisecond time interval (HIC36) shall not exceed 1,000. HIC is not calculated when using the 6-year-old weighted and 10-year-old test dummies.
S5.1.2.1(b)	**Chest Injury Criterion**- The chest acceleration shall not exceed 60g for intervals whose cumulative duration is more than 3 milliseconds.

Head Injury Criterion Results

Calculated HIC36	Pass/Fail
270	Pass

Chest Injury Criterion Results

Max acceleration lasting 3 ms (g)	Pass/Fail
44	Pass

Remarks:

None

.

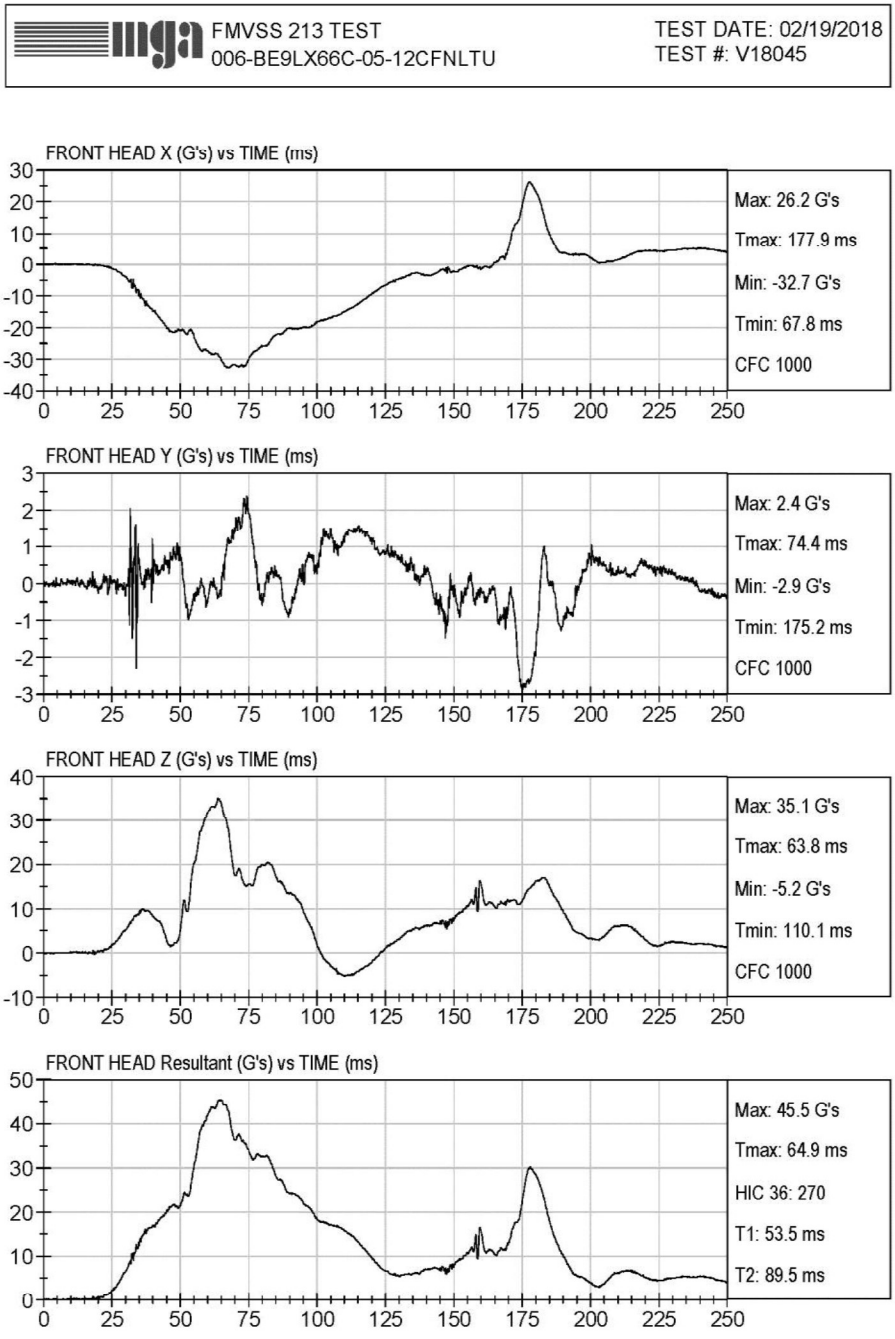
Recorded by: Jay Bullington Date: 2/16/2018

INJURY CRITERIA - HEAD ACCELERATION PLOTS - TEST 5

(FMVSS 213, S5.1.2)

Report No.:	213-MGA-18-006
Test Date:	2/16/2018

Sled Test No.	V18045F
Item Code	006-BE9LX66C-05-12CFNLTU

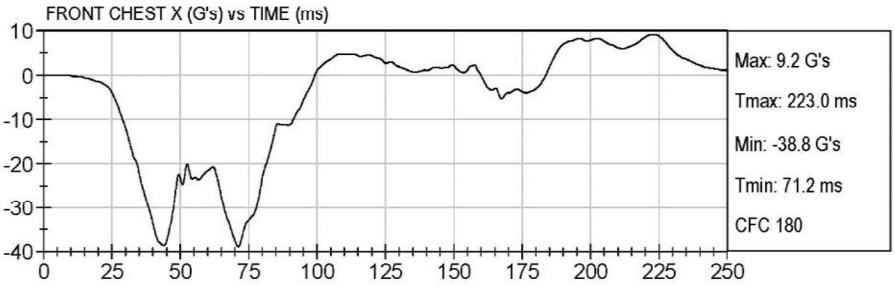


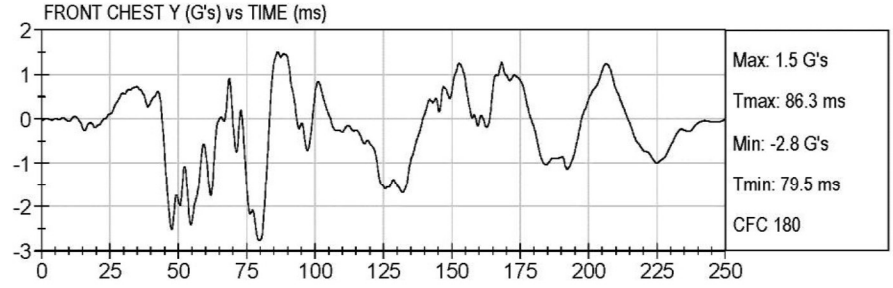
INJURY CRITERIA - CHEST ACCELERATION PLOTS - TEST 5

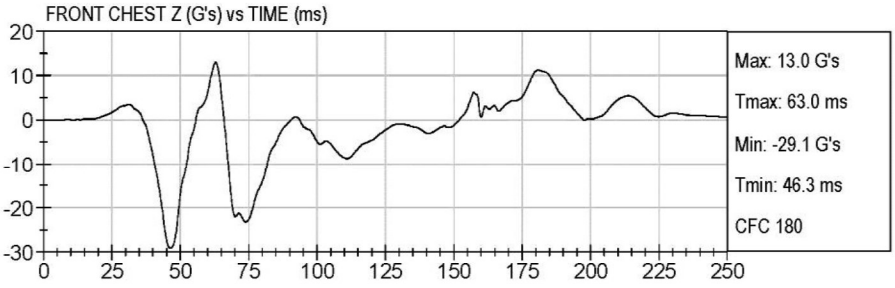
(FMVSS 213, S5.1.2)

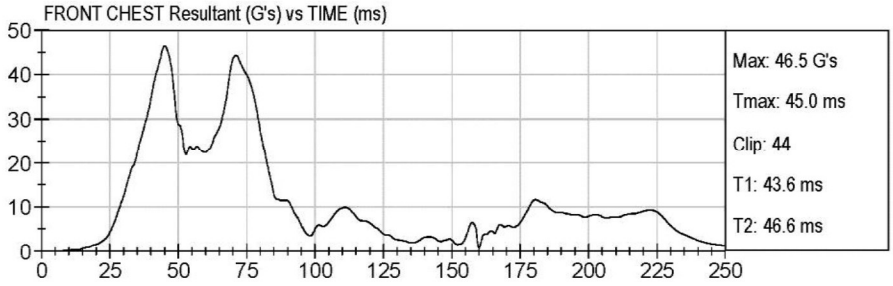
Report No.:	213-MGA-18-006
Test Date:	2/16/2018

Sled Test No.	V18045F
Item Code	006-BE9LX66C-05-12CFNLTU









OCCUPANT EXCURSION - TEST 5

(FMVSS 213, S5.1.3, S5.1.4, S5.2.1.1(c))

Report No.:	213-MGA-18-006
Test Date:	2/16/2018

Sled Test No.	V18045F
Item Code	006-BE9LX66C-05-12CFNLTU

FORWARD-FACING RESTRAINTS

Section	Requirement	Measurement	Pass/Fail
S5.1.3.1	***Torso retention***—CRS shall retain the torso within system		Pass
S5.1.3.1(a)(1)	***Head excursion***- ≤ 720 mm (28 in) with tether ≤ 813 mm (32 in) no tether	468 mm (18.4 in)	Pass
S5.1.3.1(a)(2)	***Knee target excursion***- ≤ 915 mm (36 in)	555 mm (21.9 in)	Pass
S5.2.1.1(c)	***Head-torso angle***- rearward change ≤ 45º	≤ 45º	Pass

REAR-FACING RESTRAINTS

Section	Requirement	Measurement	Pass/Fail
S5.1.3.2	***Torso retention***—CRS shall retain the torso within system		N/A
S5.1.3.2	***Head target excursion***-Not beyond restraint's top and forward edge		N/A
S5.1.4	***Back support angle***- Angle between the back support surface and the vertical ≤ 70º	N/A	N/A
S5.2.1.1(c)	***Head-torso angle***- rearward change ≤ 45º	N/A	N/A

Remarks:

Excursion camera locations (distance forward of point Z) = 813 mm, camera speeds = 1,000 frames per second, and lens focal lengths = 15 mm.

Recorded by: Jay Bullington Date: 2/16/2018

DYNAMIC IMPACT TEST CONDITIONS - TEST 6

(FMVSS 213, S6.1)

Report No.:	213-MGA-18-006
Test Date:	2/16/2018

Sled Test No.	V18045R
Item Code	006-BE9LX66C-06-6W3FN2TU

Pulse:

Test Configuration (I or II)	I
Nominal Velocity (km/h)	48 (+0/-3)

Laboratory Ambient Conditions During Testing:

Temperature (ºC)	21.9
Relative Humidity (%)	39

Dummy:

Dummy Description	Hybrid III 6 Year Old Weighted (Part 572S)
Dummy Serial Number	127W

Restraint Installation:

=

Installed Direction	Forward-Facing
Base Usage	Other Configuration
Attachment Method	Lap Belt
Tether Usage	Yes
Seat Back Position	Upright
Shoulder Harness Position	Slot 10 of 10, Counted from the Bottom
Buckle Harness Position	Slot 2 of 2, Counted from the Seat Back Outward
Recline Position	Position 1 of 3, Counted from Most Upright
Infant Positioning Pillow	Removed
Shoulder Harness Covers	Installed
Crotch Buckle Cover	Installed
Impact Absorbing Chest Pads	Installed
Lock-offs Used	None

Remarks:

Pre-test and post-test photographs are presented in Section 9.

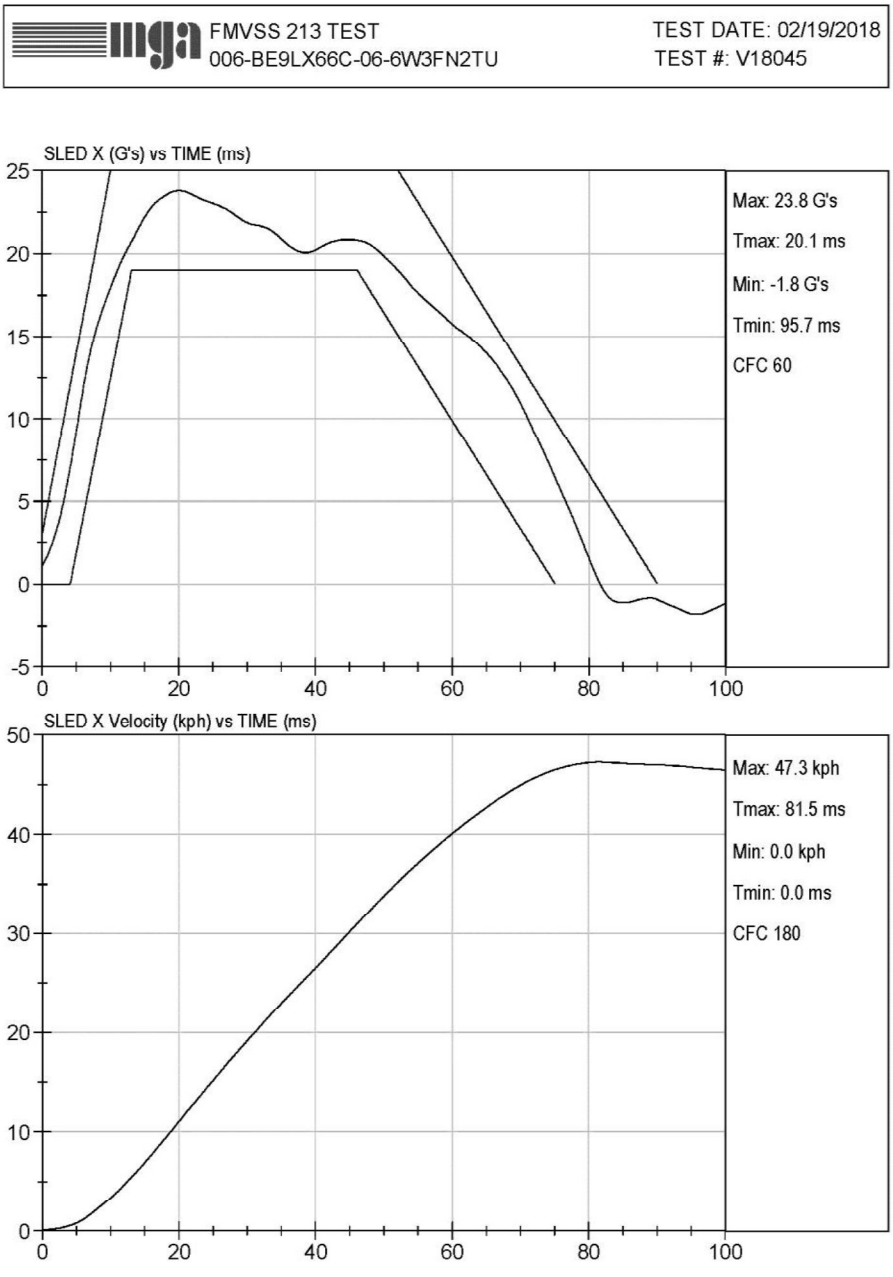
Recorded by: Jay Bullington Date: 2/16/2018

DYNAMIC IMPACT SLED PULSE - TEST 6

(FMVSS 213, S6.1)

Report No.:	213-MGA-18-006
Test Date:	2/16/2018

Sled Test No.	V18045R
Item Code	006-BE9LX66C-06-6W3FN2TU



BELT RESTRAINT - TEST 6

(FMVSS 213, S5.4.3)

Report No.:	213-MGA-18-006
Test Date:	2/16/2018

Sled Test No.	V18045R
Item Code	006-BE9LX66C-06-6W3FN2TU

Section	Requirement	Pass/Fail
S5.4.3.1	**Snug Fit of Belts**. Belts that are part of the restraint and designed to restrain the child are adjustable to snugly fit any child of height and weight identified by the manufacturer in accordance with the manufacturer's installation instructions.	Pass

Section	Requirement	Yes/No	Pass/Fail
S5.4.3.2	**Direct Restraint**. Belts impose no loads on the child resulting from the mass of the system or the test seat.		Pass
	This restraint has one or more belts that contact the dummy for restraint.	No	If all are "yes," restraint fails S5.4.3.2.
	This restraint has a rigid structure behind the dummy.	Yes	
	The restraint could move relative to the belt.	No	

Section	Requirement	Pass/Fail
S5.4.3.3	**Seating Systems**. Except for harnesses and infant restraints for children up to 10 kg (22 lb), each restraint designed for a child in a seated position and having belts shall provide:	Pass
S5.4.3.3(a)	Upper torso restraint (either belts or a shield)	Pass
S5.4.3.3(b)	Lower torso restraint (either belts or a shield)	Pass
S5.4.3.3(c)	Crotch restraint (either a belt attached to the lap belt or a shield)	Pass

Section	Requirement	Pass/Fail
S5.4.3.4	**Harnesses**. Each harness shall:	N/A
S5.4.3.3(a)	Provide upper torso restraint	N/A
S5.4.3.3(b)	Provide lower torso restraint (lap and crotch restraint)	N/A
S5.4.3.3(c)	Prevent standing	N/A

Remarks:

None

Recorded by: Jay Bullington Date: 2/16/2018

BUCKLE RELEASE - TEST 6

(FMVSS 213, S5.4.3.5, S6.2)

Report No.:	213-MGA-18-006
Test Date:	2/16/2018

Sled Test No.	V18045R
Item Code	006-BE9LX66C-06-6W3FN2TU

Section	Requirement	Measurement	Pass/Fail
S5.4.3.5(a)	**Pre-Impact Release Force—** Releases under 40-62 N (9-14 lb)	L: 55 N (12.4 lb) R: 55 N (12.4 lb)	Pass (1)
S5.4.3.5(b)	**Post-Impact Release Force*—** Releases ≤ 71 N (16 lb)	L: 62 N (13.9 lb) R: 62 N (13.9 lb)	Pass (1)
S5.4.3.5(c)	**Minimum Surface Area of Buckle-** ≥ 0.6 in^2 (3.9 cm^2)	0.7 in^2 (4.4 cm^2)	Pass
S5.4.3.5(e)	**Buckle Integrity** Shall not release during testing	No Release	Pass

*Not applicable unless determined using the largest test dummy specified in S7 for use in testing the seat.

Remarks:

(1) The buckle is comprised of right and left buckle tangs that do not always release at the same force.

Recorded by: Jay Bullington Date: 2/16/2018

SYSTEM INTEGRITY - TEST 6

(FMVSS 213, S5.1.1)

Report No.:	213-MGA-18-006
Test Date:	2/16/2018

Sled Test No.	V18045R
Item Code	006-BE9LX66C-06-6W3FN2TU

S5.1.1 When dynamically tested, the child restraint system shall:

Section	Requirement	Pass/Fail
S5.1.1(a)	**Structural Integrity-** Exhibit no complete separation of any load bearing structural element	Pass
	Exhibit no partial separation exposing surfaces with a radius of less than ¼ in (9.53 mm)	Pass
	Exhibit no partial separation exposing surfaces with protrusions greater than 3/8 in (6.35 mm)	Pass
S5.1.1(b)(1)	**Adjustment Position-** Remain in the same adjustment position during the test that it was in immediately before the test	Pass
S5.1.1(b)(2)(ii)	**Exposed Openings-** Have no exposed opening larger than ¼ inch (9.53 mm) before the test become smaller during the testing as a result of the movement of the seating surface relative to the restraint system as a whole	Pass
S5.1.1(c)	**Seating Surface Angle-** Forward facing restraints do not allow the angle between the system's back support surface and seating surface to be less than 45 degrees at the completion of the test.	Pass

Remarks:

None

Recorded by: Jay Bullington Date: 2/16/2018

OCCUPANT EXCURSION - TEST 6

(FMVSS 213, S5.1.3, S5.1.4, S5.2.1.1(c))

Report No.:	213-MGA-18-006
Test Date:	2/16/2018

Sled Test No.	V18045R
Item Code	006-BE9LX66C-06-6W3FN2TU

FORWARD-FACING RESTRAINTS

Section	Requirement	Measurement	Pass/Fail
S5.1.3.1	***Torso retention***—CRS shall retain the torso within system		Pass
S5.1.3.1(a)(1)	***Head excursion***- ≤ 720 mm (28 in) with tether ≤ 813 mm (32 in) no tether	N/A	N/A
S5.1.3.1(a)(2)	***Knee target excursion***- ≤ 915 mm (36 in)	N/A	N/A
S5.2.1.1(c)	***Head-torso angle***- rearward change ≤ 45º	≤ 45º	Pass

REAR-FACING RESTRAINTS

Section	Requirement	Measurement	Pass/Fail
S5.1.3.2	***Torso retention***—CRS shall retain the torso within system		N/A
S5.1.3.2	***Head target excursion***-Not beyond restraint's top and forward edge		N/A
S5.1.4	***Back support angle***- Angle between the back support surface and the vertical ≤ 70º	N/A	N/A
S5.2.1.1(c)	***Head-torso angle***- rearward change ≤ 45º	N/A	N/A

Remarks:

Excursion camera locations (distance forward of point Z) = 813 mm, camera speeds = 1,000 frames per second, and lens focal lengths = 15 mm.

Recorded by: Jay Bullington Date: 2/16/2018

AIRCRAFT PASSENGER SEAT INVERSION - TEST A

(FMVSS 213, S8.2, S8.2.5, S8.2.6)

Report No.:	213-MGA-18-006
Test Date:	2/27/2018

Test No.	A
Item Code	006-BE9LX66C-Inv01-NINRN2FR

Dummy:

Dummy Description	CAMI Newborn (Part 572K)
Dummy Serial Number	004

Restraint Installation:

Installed Direction	Rear-Facing
Base Usage	Other Configuration
Attachment Method	Lap Belt
Tether Usage	No
Seat Back Position	Reclined
Shoulder Harness Position	Slot 1 of 10, Counted from the Bottom
Buckle Harness Position	Slot 1 of 2, Counted from the Seat Back Outward

ROTATION ABOUT Y-AXIS (FORWARD)

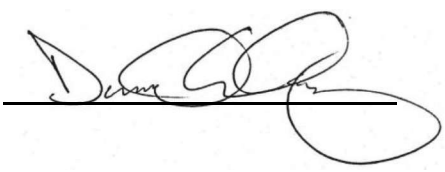
Section	Requirement	Pass/Fail
S8.2.5	The test dummy shall be retained within the CRS	Pass
S8.2.5	The CRS shall be retained within the aircraft seat	Pass

ROTATION ABOUT X-AXIS (LATERAL)

Section	Requirement	Pass/Fail
S8.2.6	The test dummy shall be retained within the CRS	Pass
S8.2.6	The CRS shall be retained within the aircraft seat	Pass

Remarks:

None

Recorded by: 

Date: 2/27/2018

AIRCRAFT PASSENGER SEAT INVERSION - TEST B

(FMVSS 213, S8.2, S8.2.5, S8.2.6)

Report No.:	213-MGA-18-006
Test Date:	2/27/2018

Test No.	B
Item Code	006-BE9LX66C-Inv02-12CFN2FU

Dummy:

Dummy Description	CRABI 12 Month Old (Part 572R)
Dummy Serial Number	083

Restraint Installation:

Installed Direction	Forward-Facing
Base Usage	Other Configuration
Attachment Method	Lap Belt
Tether Usage	No
Seat Back Position	Upright
Shoulder Harness Position	Slot 6 of 10, Counted from the Bottom
Buckle Harness Position	Slot 1 of 2, Counted from the Seat Back Outward

ROTATION ABOUT Y-AXIS (FORWARD)

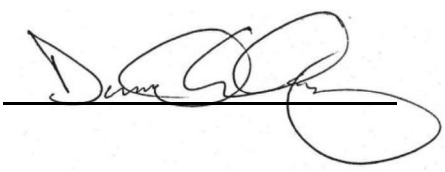
Section	Requirement	Pass/Fail
S8.2.5	The test dummy shall be retained within the CRS	Pass
S8.2.5	The CRS shall be retained within the aircraft seat	Pass

ROTATION ABOUT X-AXIS (LATERAL)

Section	Requirement	Pass/Fail
S8.2.6	The test dummy shall be retained within the CRS	Pass
S8.2.6	The CRS shall be retained within the aircraft seat	Pass

Remarks:

None

Recorded by: 

Date: 2/27/2018

AIRCRAFT PASSENGER SEAT INVERSION - TEST C

(FMVSS 213, S8.2, S8.2.5, S8.2.6)

Report No.:	213-MGA-18-006
Test Date:	2/27/2018

Test No.	C
Item Code	006-BE9LX66C-Inv03-3H3FN2FU

Dummy:

Dummy Description	Hybrid III 3 Year Old (Part 572P)
Dummy Serial Number	031

Restraint Installation:

Installed Direction	Forward-Facing
Base Usage	Other Configuration
Attachment Method	Lap Belt
Tether Usage	No
Seat Back Position	Upright
Shoulder Harness Position	Slot 7 of 10, Counted from the Bottom
Buckle Harness Position	Slot 2 of 2, Counted from the Seat Back Outward

ROTATION ABOUT Y-AXIS (FORWARD)

Section	Requirement	Pass/Fail
S8.2.5	The test dummy shall be retained within the CRS	Pass
S8.2.5	The CRS shall be retained within the aircraft seat	Pass

ROTATION ABOUT X-AXIS (LATERAL)

Section	Requirement	Pass/Fail
S8.2.6	The test dummy shall be retained within the CRS	Pass
S8.2.6	The CRS shall be retained within the aircraft seat	Pass

Remarks:

None

Recorded by:  Date: 2/27/2018

SECTION 6
INTERPRETATION AND/OR DEVIATIONS FROM FMVSS 213

There were no deviations from FMVSS 213.

SECTION 7
TEST CONFIGURATION CODES

The following table explains the code used to describe the test configurations in this report. For example, the test configuration code 12CFNLFU indicates that the child restraint sled test was conducted using a 12-month old CRABI dummy, installed in the forward facing direction with no optional base, the latch system, no tether, and in the upright position.

Dummy Description	**NIN –** Newborn Infant, CAMI
	12C – 12 MO, CRABI
	3H3 – 3 YO, Hybrid III
	6H2 – 6YO Hybrid II
	6H3 – 6YO, Hybrid III
	6W3 – 6 YO, Weighted Hybrid III
	TH3 – 10 YO, Hybrid III
Installed Direction	**R –** Rear Facing
	F – Forward Facing
	S – Faces Sideways (Carbeds)
Base Usage	**B –** Optional Base Used with Infant CRS
	N – All Other Configurations
Attachment Method	**L –** LATCH
	2 – Lap Belt
	3 – Lap and Shoulder Belt
	M – Seat Back Mount
Tether Usage	**T –** Tether
	F – Tether Free
Seat Back Position	**U –** Upright
	R – Reclined
	B – Booster with Back
	N – Booster without Back
	F – Flat

SECTION 8
INSTRUMENTATION CALIBRATION

CERTIFICATION INSTRUMENTATION

Sled Accelerometers	S/N	Manufacturer	Model Number	Calibration Date	Due Date
Primary	1452976	Honeywell	JTF 060-F482-05	12/13/17	6/13/18
Redundant	1318820	Honeywell	JTF 060-F482-05	12/13/17	6/13/18

Temperature/Humidity Logger	S/N	Manufacturer	Model Number	Calibration Date	Due Date
Accuracy 0.5°F, 2% RH	11012026	Veriteq	SP-2000-20R	11/30/17	11/30/18

Force Gauge	S/N	Manufacturer	Model Number	Calibration Date	Due Date
100 lb, Accuracy ± 0.1 lb	213343	Wagner	FDIX100	9/19/17	9/19/18

Scale	S/N	Manufacturer	Model Number	Calibration Date	Due Date
100 lb, Accuracy ± 0.1 lb	16394186GM	Ohaus	D100QL	5/16/17	5/16/18

Inclinometer	S/N	Manufacturer	Model Number	Calibration Date	Due Date
Accuracy ± 0.1°	25101	Pro 360	Pro 360	1/24/18	7/24/18

Caliper	S/N	Manufacturer	Model Number	Calibration Date	Due Date
6 in, Accuracy ± .001in	2G199506	Brown & Sharpe	590090	11/17/17	5/17/18

Tape Measurers	S/N	Manufacturer	Model Number	Calibration Date	Due Date
8 m/26 ft	0011	Stanley	33-428	11/20/17	11/20/18
8 m/26 ft	0012	Stanley	33-428	11/20/17	11/20/18

TEST DUMMY INSTRUMENTATION

SERIAL NUMBER 083

Sensor		S/N	Manufacturer	Model Number	Calibration Date	Due Date
Head Accelerometers	X	P79762	Endevco	7264C-2KTZ-2-360M17	12/19/17	6/19/18
	Y	P79764	Endevco	7264C-2KTZ-2-360M17	12/19/17	6/19/18
	Z	P96871	Endevco	7264C-2KTZ-360M17	12/18/17	6/18/18
Chest Accelerometers	X	T12064	Endevco	7264C-2KTZ-360M17	12/21/17	6/21/18
	Y	T12066	Endevco	7264C-2KTZ-360M17	12/21/17	6/21/18
	Z	T12068	Endevco	7264C-2KTZ-360M17	12/20/17	6/20/18

SERIAL NUMBER 031

Sensor		S/N	Manufacturer	Model Number	Calibration Date	Due Date
Head Accelerometers	X	P79880	Endevco	7264C-2KTZ-2-360M17	11/27/17	5/27/18
	Y	P79881	Endevco	7264C-2KTZ-2-360M17	11/27/17	5/27/18
	Z	P79882	Endevco	7264C-2KTZ-2-360M17	11/27/17	5/27/18
Chest Accelerometers	X	P82659	Endevco	7264C-2KTZ-2-360M17	11/27/17	5/27/18
	Y	P82660	Endevco	7264C-2KTZ-2-360M17	11/27/17	5/27/18
	Z	P86944	Endevco	7264C-2KTZ-360M17	11/27/17	5/27/18

SERIAL NUMBER 155

Sensor		S/N	Manufacturer	Model Number	Calibration Date	Due Date
Head Accelerometers	X	P79723	Endevco	7264C-2KTZ-2-360M17	12/15/17	6/15/18
	Y	P84426	Endevco	7264C-2KTZ-360M17	12/15/17	6/15/18
	Z	P84428	Endevco	7264C-2KTZ-360M17	12/15/17	6/15/18
Chest Accelerometers	X	P88330	Endevco	7264C-2KTZ-360M17	12/15/17	6/15/18
	Y	P88331	Endevco	7264C-2KTZ-360M17	12/15/17	6/15/18
	Z	P88332	Endevco	7264C-2KTZ-360M17	12/15/17	6/15/18

SECTION 9
PHOTOGRAPHS

SLED BUCK - STANDARD BENCH SEAT AND CONFIGURATION
Report No.: 213-MGA-18-006

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU


V18014F
mga research corporation
PRE - TEST
V18014


mga research corporation
PRE - TEST
V18014


PRE - TEST
V18014


PRE - TEST
V18014


V18014F
mga research corporation
PRE - TEST
V18014


BOULEVARD
PRE - TEST
V18014


V18014F
mga research corporation
POST - TEST
V18014

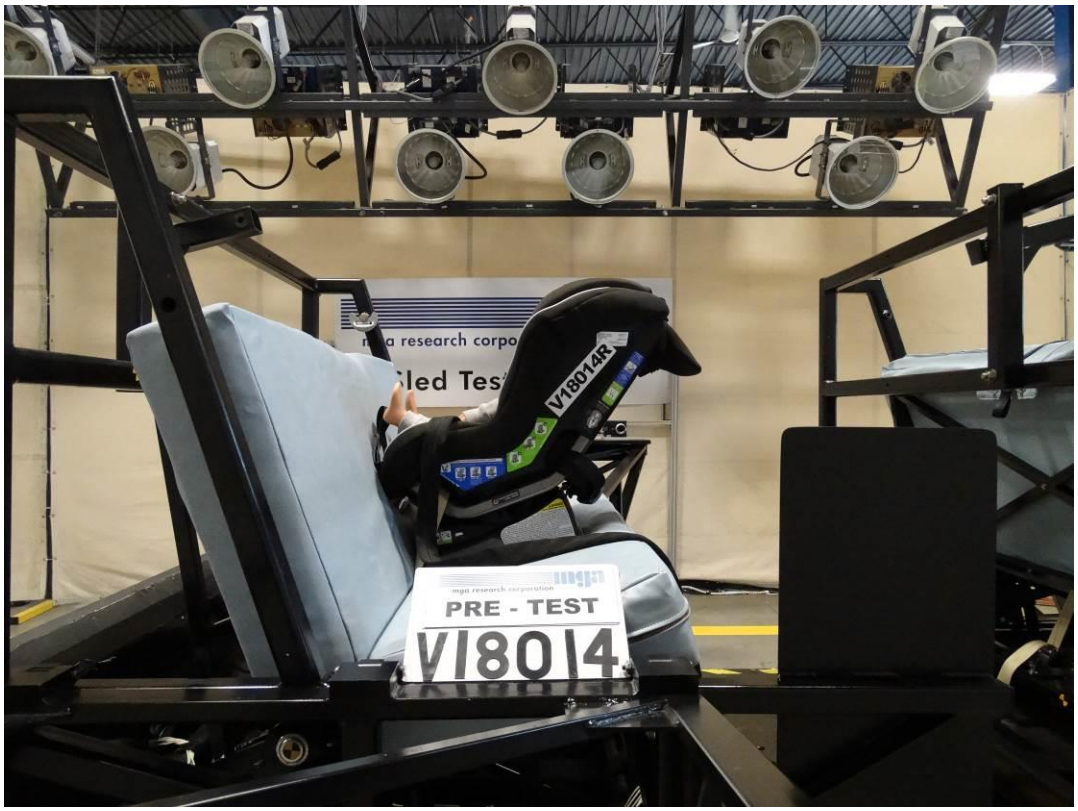

V18014F
mga research corporation
POST - TEST
V18014


mga research corporation
POST - TEST
V18014


V18014F
mga research corporation
POST - TEST
V18014


V18014F
mga research corporation
POST - TEST
V18014


POST - TEST
V18014


V18014R
PRE - TEST
V18014


PRE - TEST
V18014


PRE - TEST
V18014


V18014R
PRE - TEST
V18014


V18014R
mga research corporation
PRE - TEST
V18014


BOULEVARD
britax
PRE - TEST
V18014

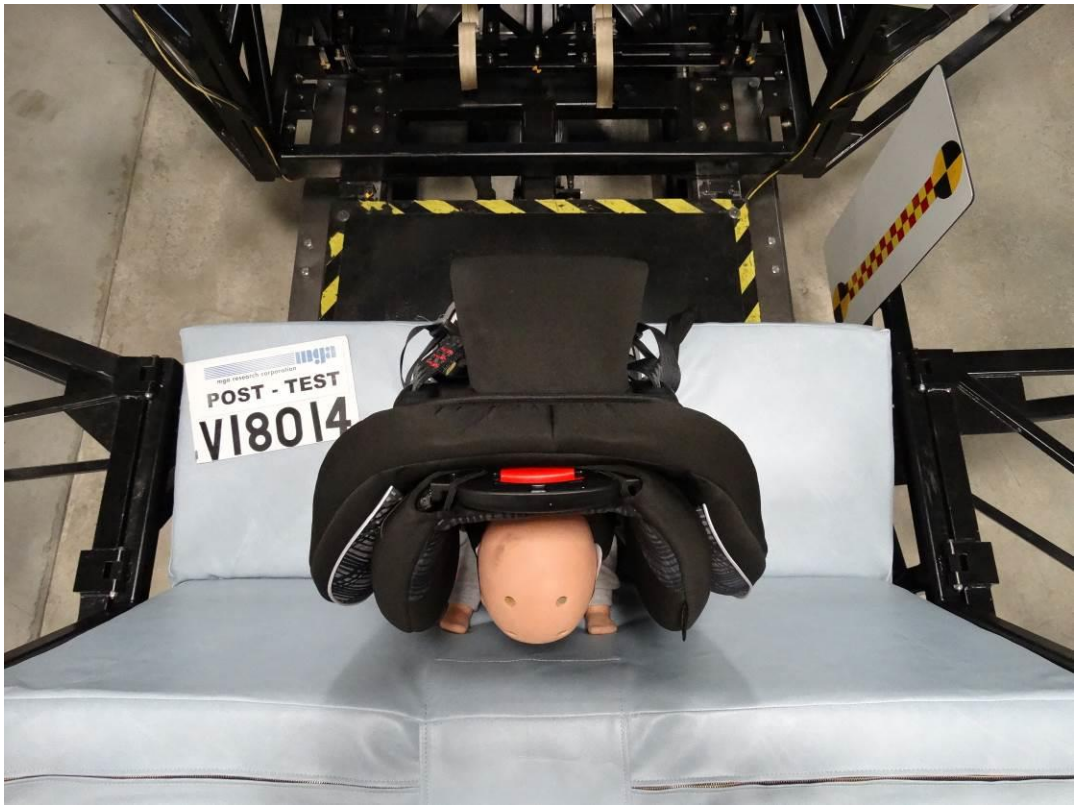

V18014R
POST - TEST
V18014

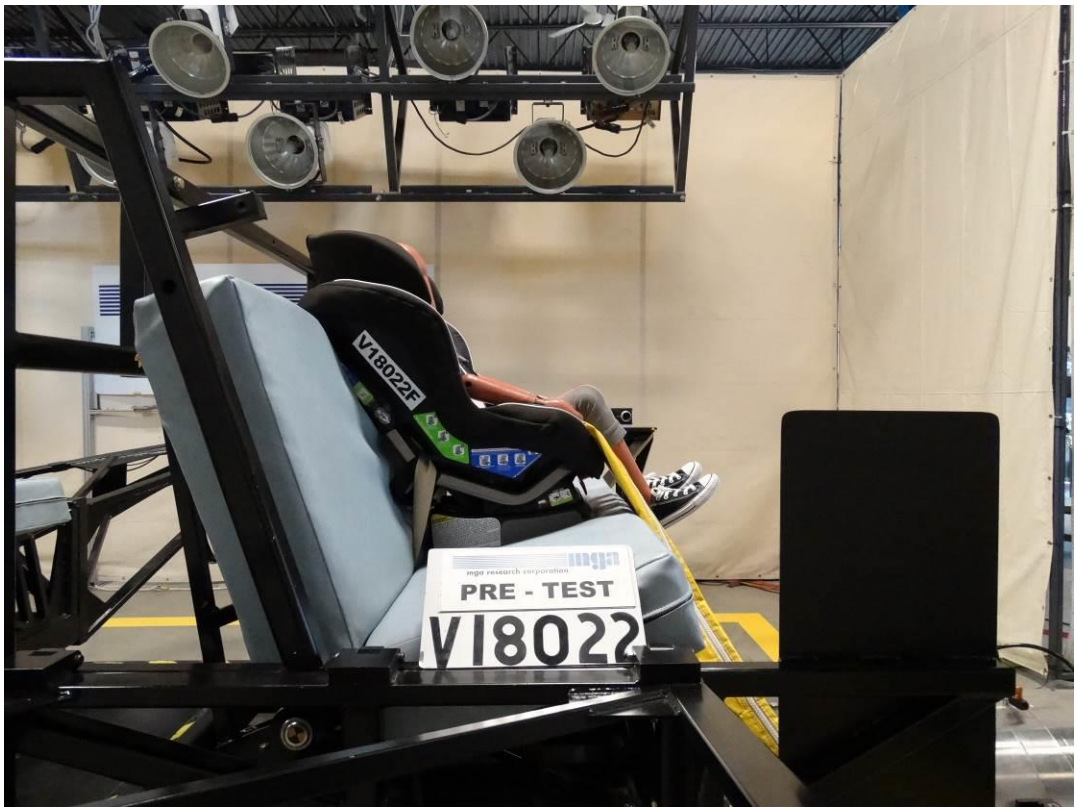

V18014R
POST - TEST
V18014


POST - TEST
V18014


V18014R
POST - TEST
V18014


V18014R
mga research corporation
POST - TEST
V18014


mga research corporation
POST - TEST
V18014

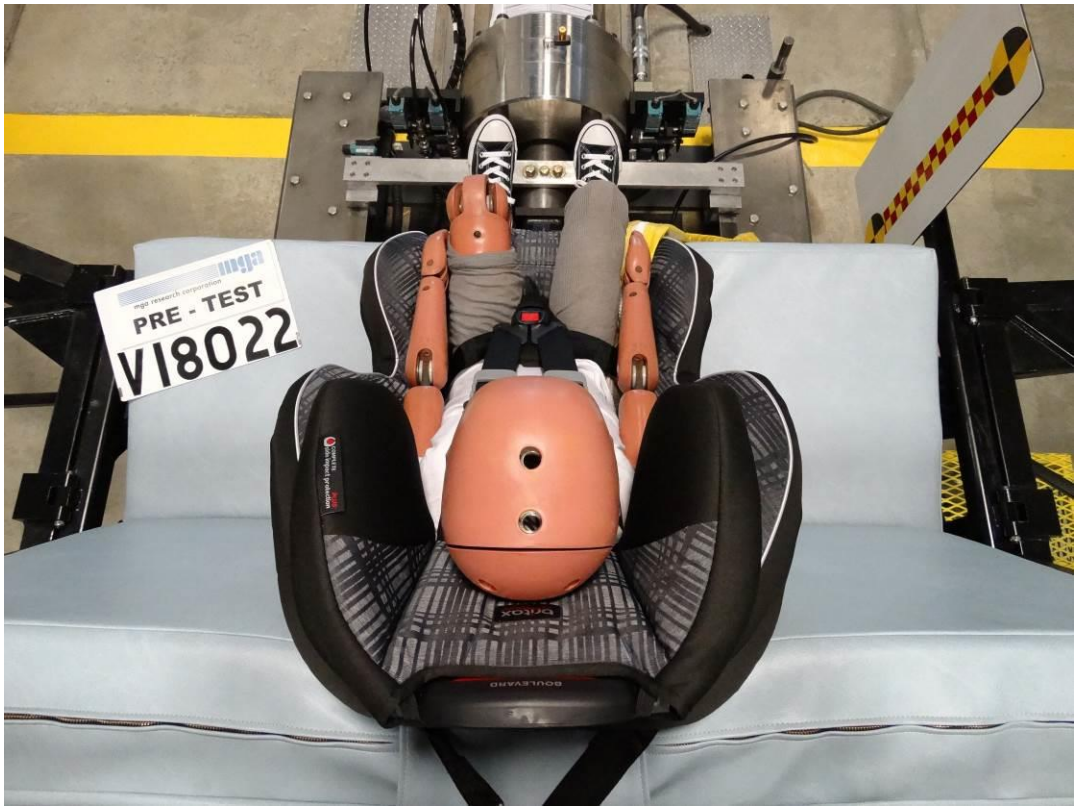

V18022F
mga research corporation
PRE - TEST
V18022


Sled Test Facility
mga research corporation
PRE - TEST
V18022


PRE - TEST
V18022

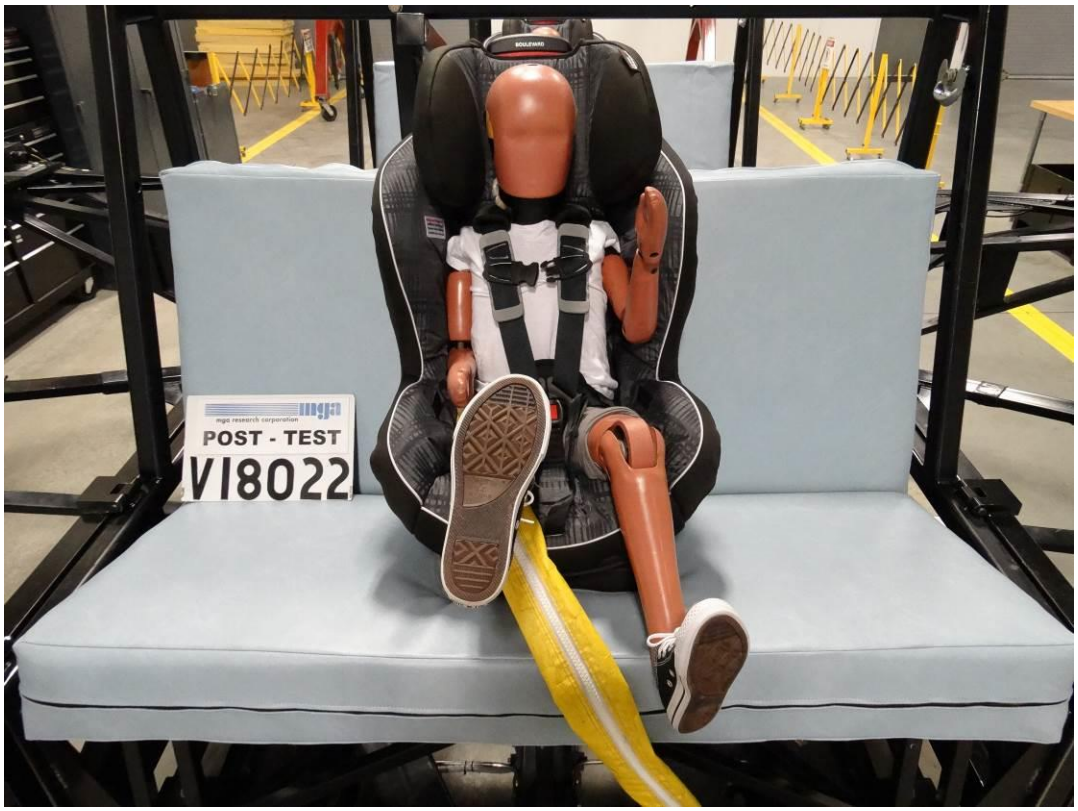

mga research corporation
Sled Test Facility
PRE - TEST
V18022


V18022F
mga research corporation
PRE - TEST
V18022


PRE - TEST
V18022


V18022F
mga research corporation
POST - TEST
V18022


mga research corporation
POST - TEST
V18022


mga research corporation
POST - TEST
V18022


mga research corporation
POST - TEST
V18022


V18022F
mga research corporation
POST - TEST
V18022


POST - TEST
V18022


V18022R
mga
Test Facility
mga research corporation
PRE - TEST
V18022


mga research corporation
PRE - TEST
V18022


PRE - TEST
V18022


Facility
mga research corporation
PRE - TEST
V18022


mga research corpor
Sled Test
V18022R
mga research corporation
PRE - TEST
V18022


mga research corporation
PRE - TEST
V18022


V18022R
mga research corporation
POST - TEST
V18022


mga research corporation
POST - TEST
V18022


mga research corporation
POST - TEST
V18022


mga research corporation
POST - TEST
V18022


V18022R
mga research corporation
POST - TEST
V18022


mga research corporation
POST - TEST
V18022

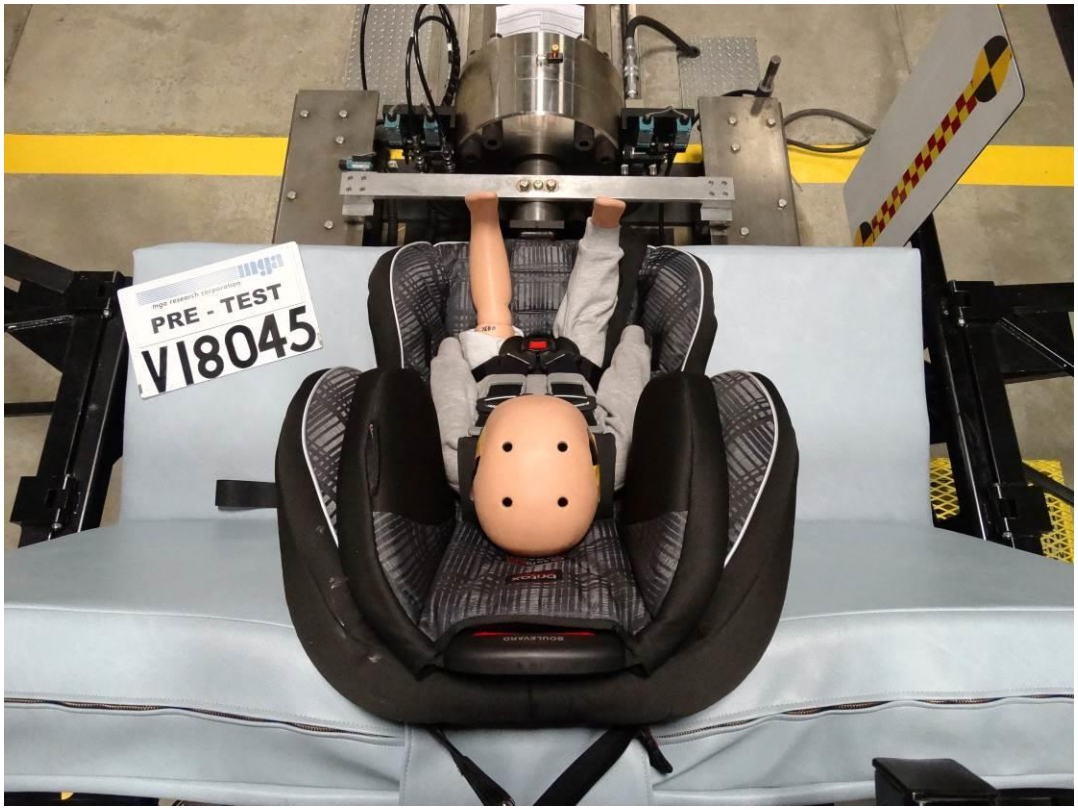

V18045F
mga research corporation
PRE - TEST
VI8045


Sled Test Facility
mga research corporation
PRE - TEST
VI8045


britax
mga research corporation
PRE - TEST
V18045


mga research corporation
PRE - TEST
V18045


V18045F
mga research corporation
PRE - TEST
V18045


PRE - TEST
V18045


V18045F
mga research corporation
POST - TEST
V18045


britax
mga research corporation
POST - TEST
V18045


BOULEVARD
britax
mga research corporation
POST - TEST
V18045


BOULEVARD
britax
mga research corporation
POST - TEST
V18045


V18045F
mga research corporation
POST - TEST
V18045


POST - TEST
V18045


mga
rch corporation
Test Facility
V18045R
mga research corporation
PRE - TEST
V18045


mga research corporation
PRE - TEST
V18045


PRE - TEST
V18045


Facility
PRE - TEST
V18045


mga research corpora
Sled Test
V18045R
mga research corporation
PRE - TEST
V18045


mga research corporation
PRE - TEST
V18045


V18045R
mga research corporation
POST - TEST
V18045

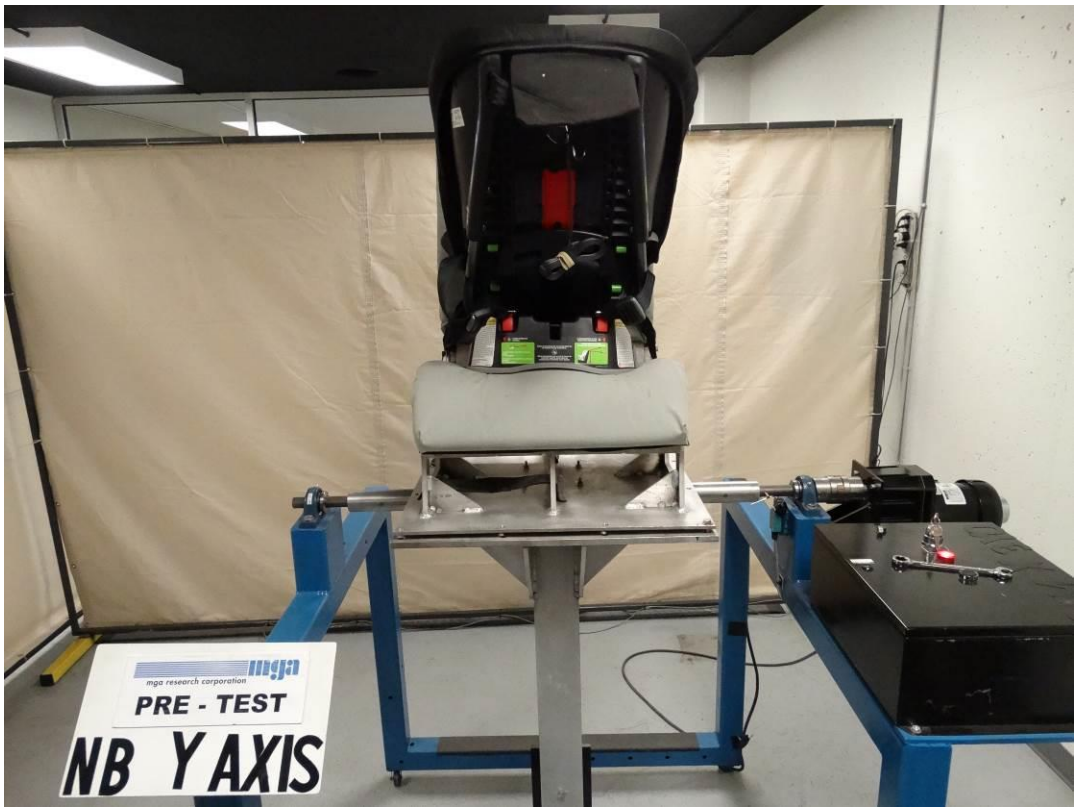

mga research corporation
POST - TEST
V18045


mga research corporation
POST - TEST
V18045

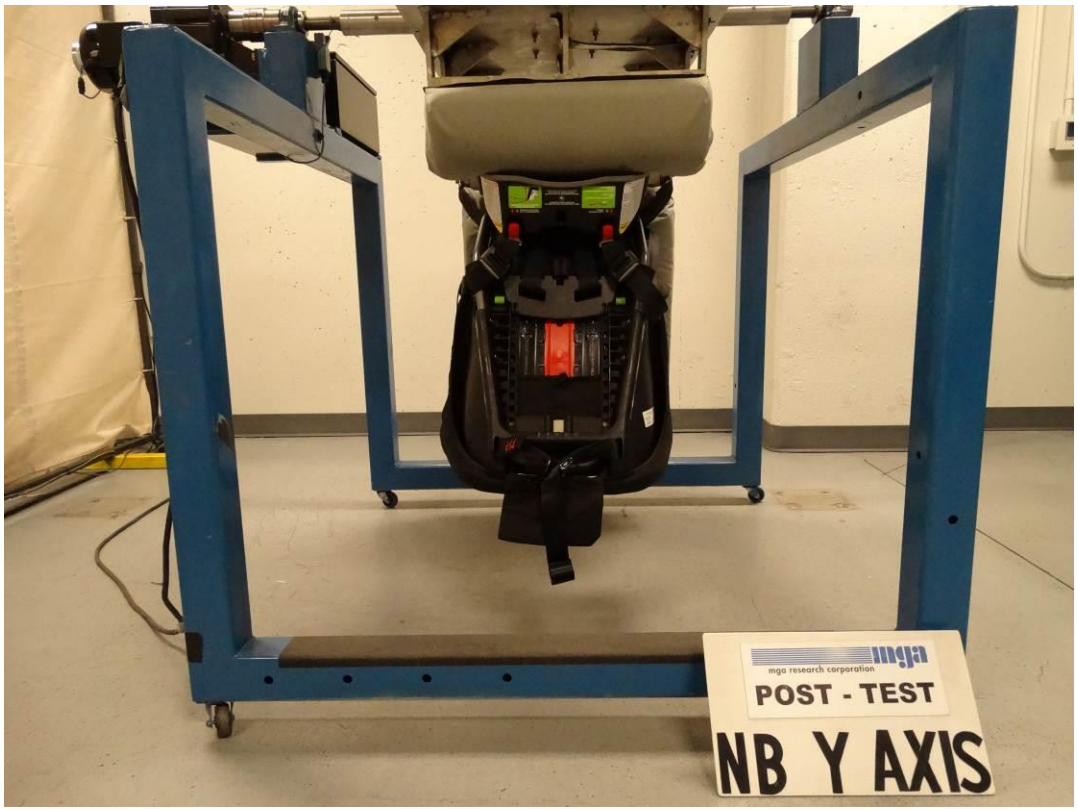

mga research corporation
POST - TEST
V18045


V18045R
mga research corporation
POST - TEST
V18045


mga research corporation
POST - TEST
V18045

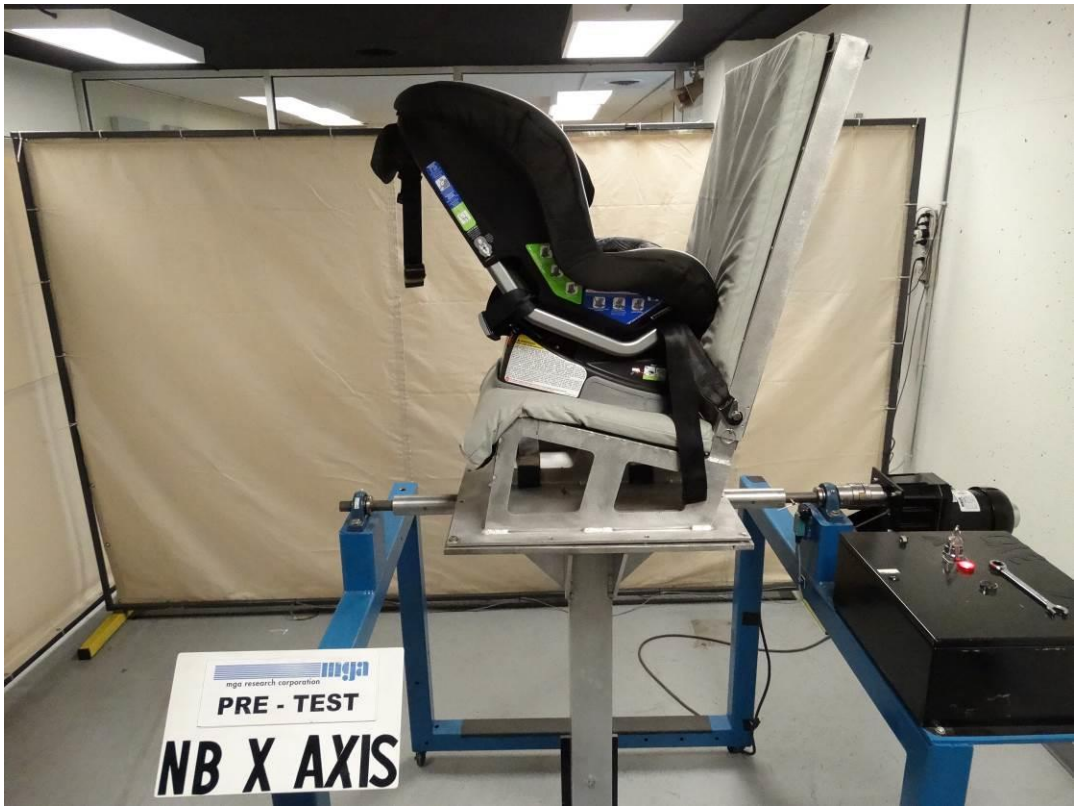

mga research corporation
PRE - TEST
NB Y AXIS

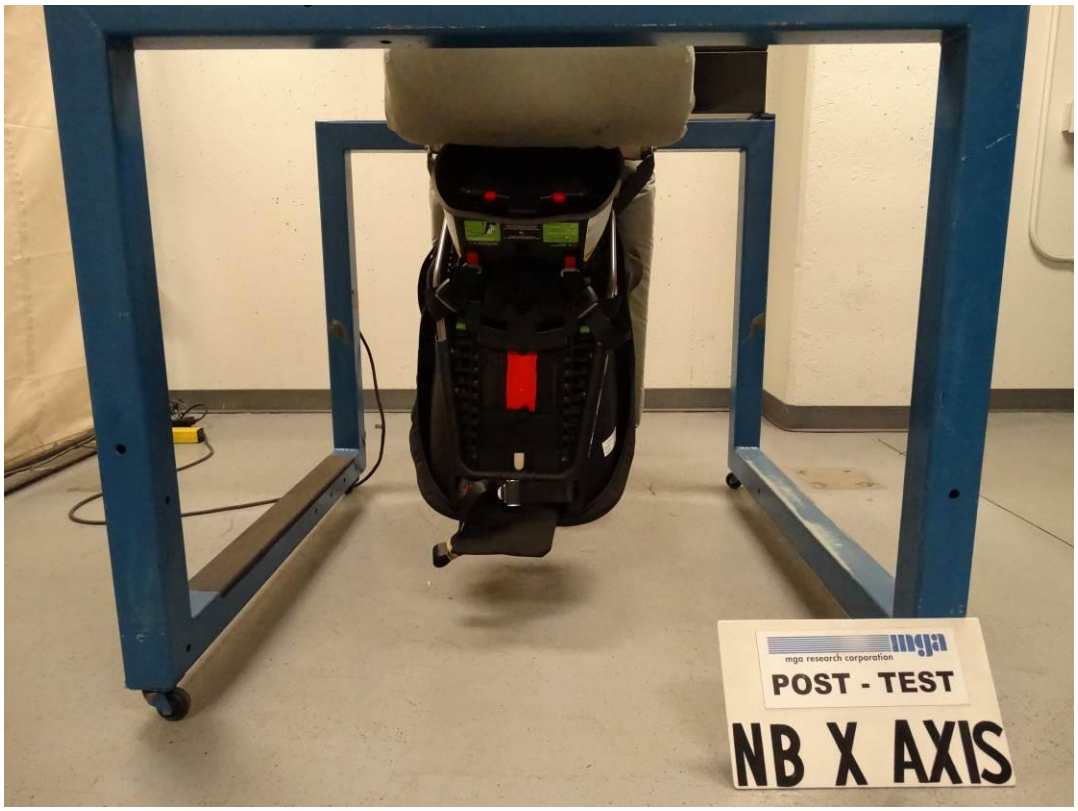

mga research corporation
PRE - TEST
NB Y AXIS


mga research corporation
POST - TEST
NB Y AXIS


mga research corporation
POST - TEST
NB Y AXIS


mga research corporation
PRE - TEST
NB X AXIS


mga research corporation
PRE - TEST
NB X AXIS

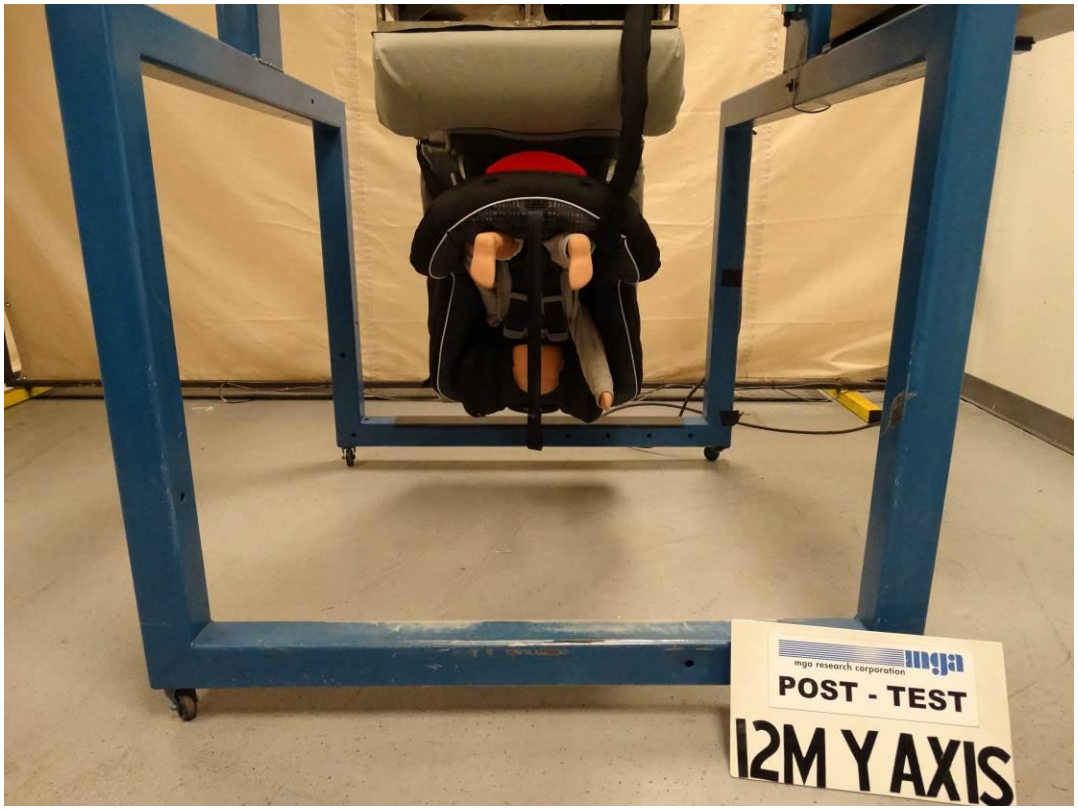

mga research corporation
POST - TEST
NB X AXIS


mga research corporation
POST - TEST
NB X AXIS


mga research corporation
PRE - TEST
12M Y AXIS


mga research corporation
PRE - TEST
12M Y AXIS

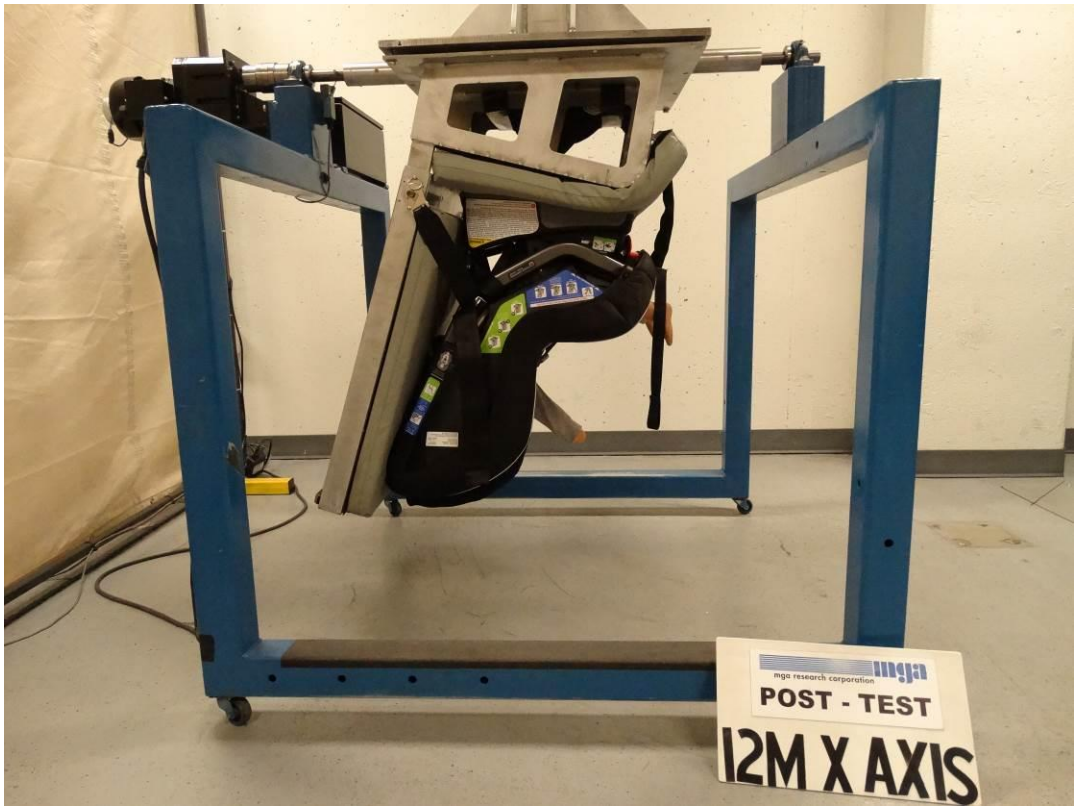

mga research corporation
mga
POST - TEST
12M Y AXIS


mga research corporation
mga
POST - TEST
12M Y AXIS


mga research corporation
PRE - TEST
12M X AXIS


mga research corporation
PRE - TEST
12M X AXIS


mga research corporation
POST - TEST
12M X AXIS


mga research corporation
POST - TEST
12M X AXIS

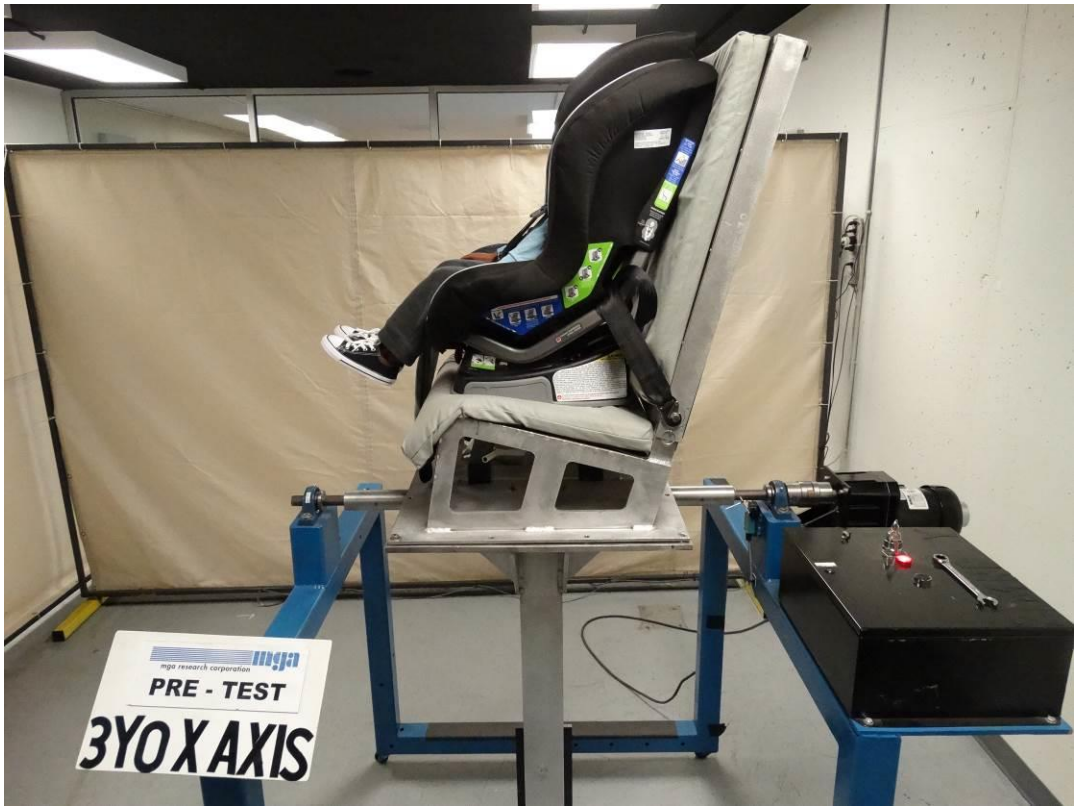

mga research corporation
PRE - TEST
3YO Y AXIS


mga research corporation
PRE - TEST
3YO Y AXIS

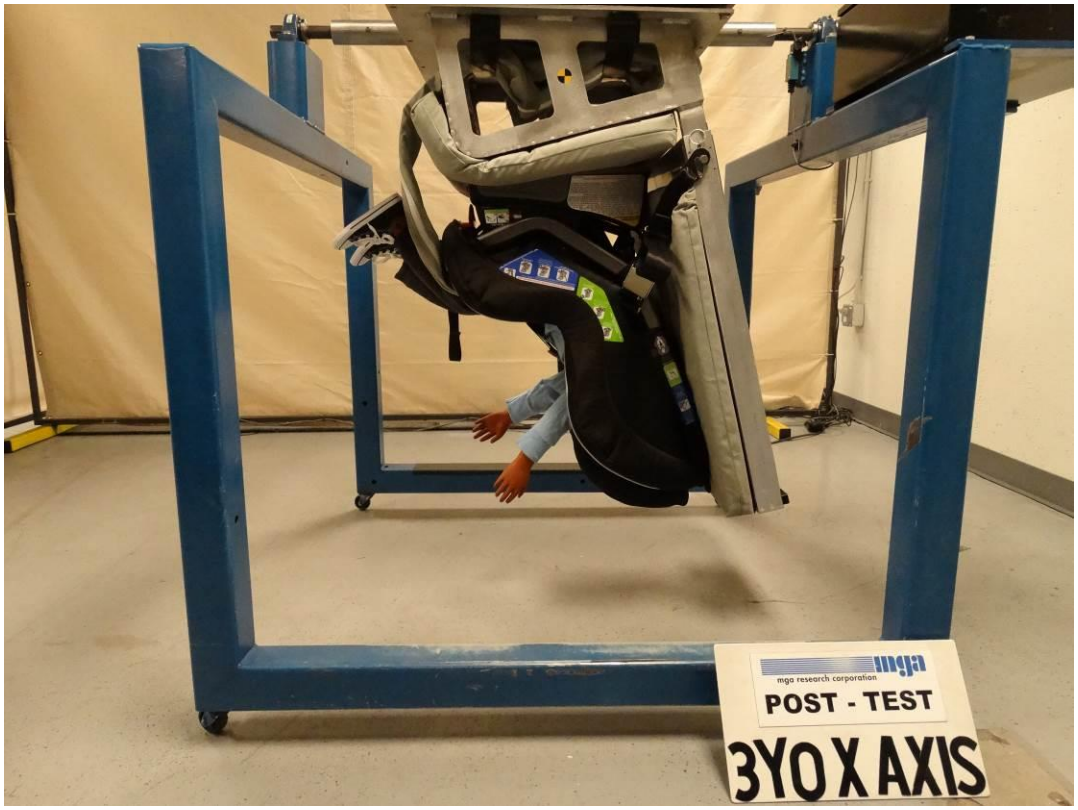

mga research corporation
POST - TEST
3YO Y AXIS


mga research corporation
POST - TEST
3YO Y AXIS


mga research corporation
PRE - TEST
3YO X AXIS

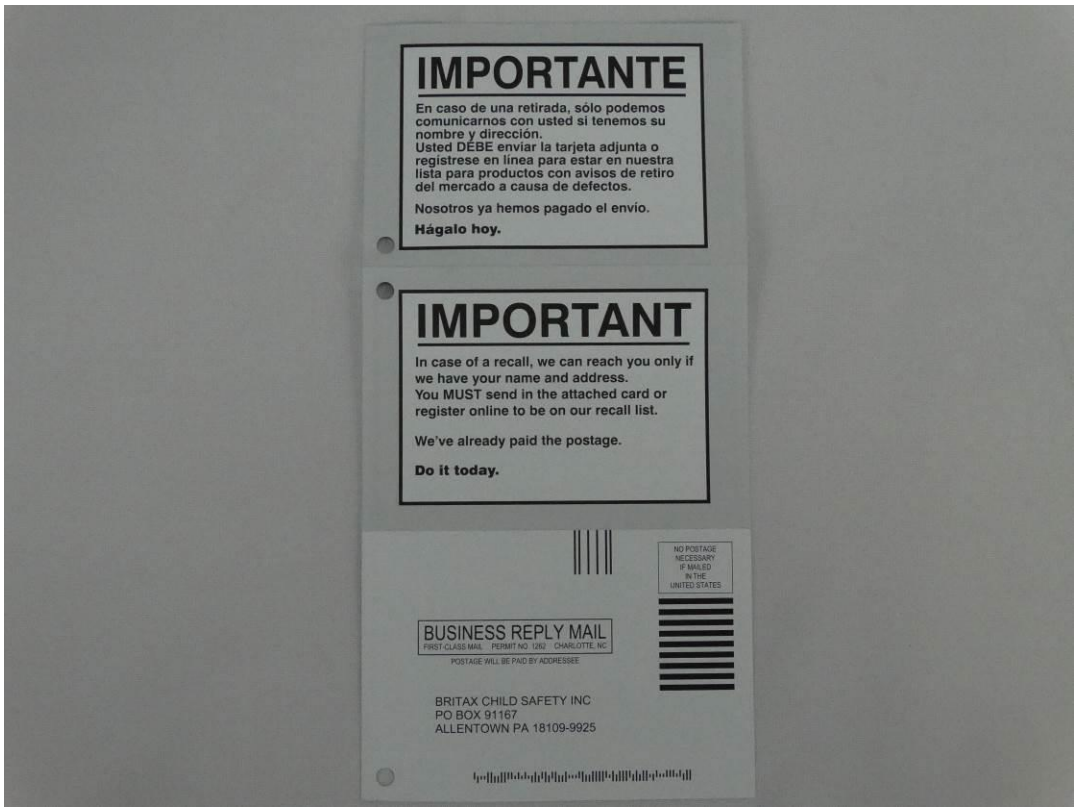

mga research corporation
PRE - TEST
3YO X AXIS

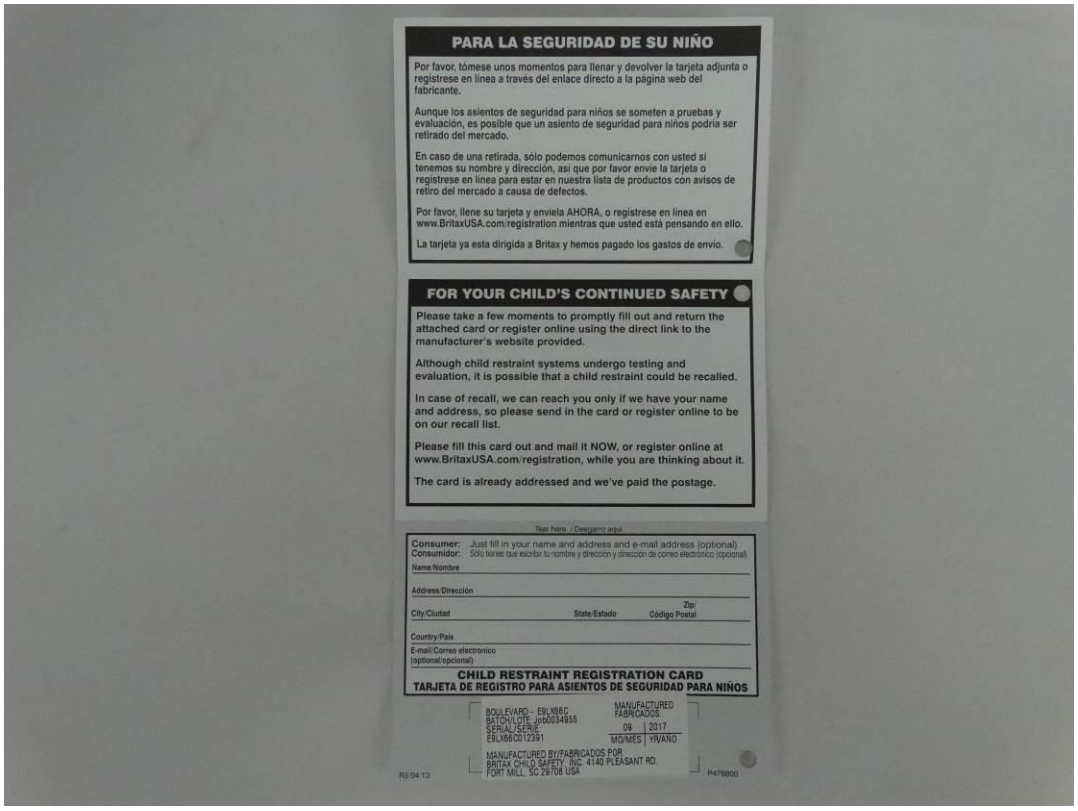

mga research corporation
POST - TEST
3YO X AXIS


mga research corporation
POST - TEST
3YO X AXIS

LABELS

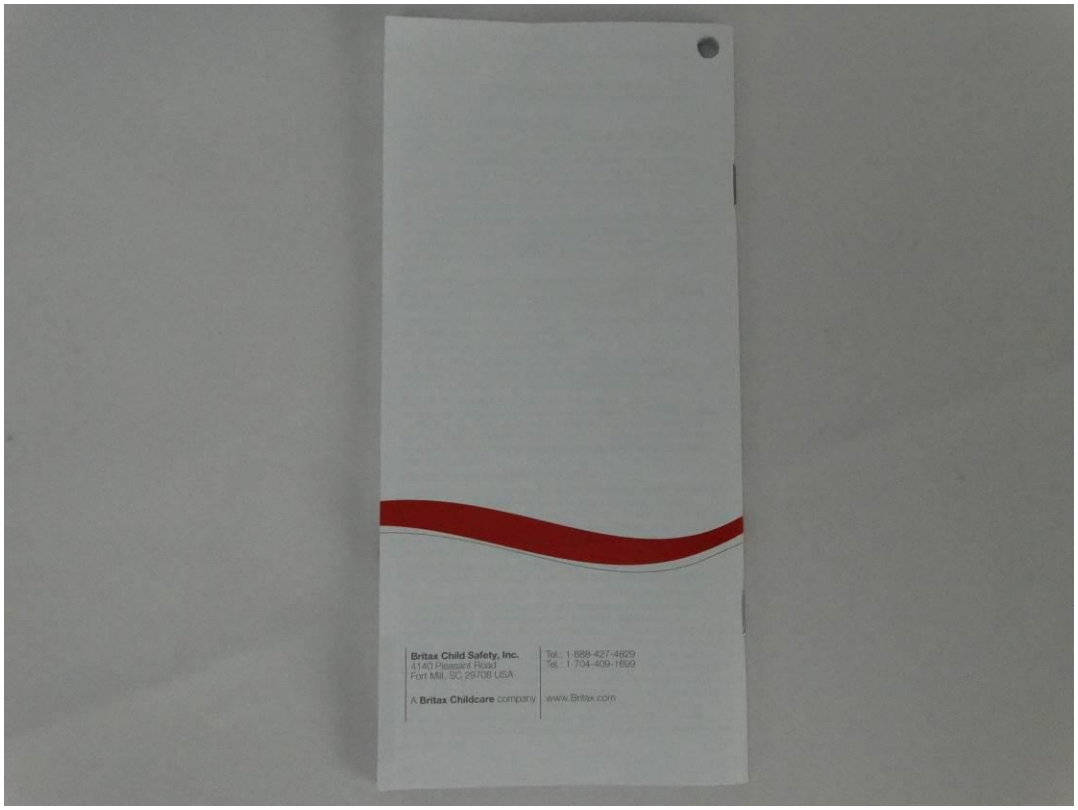
Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU





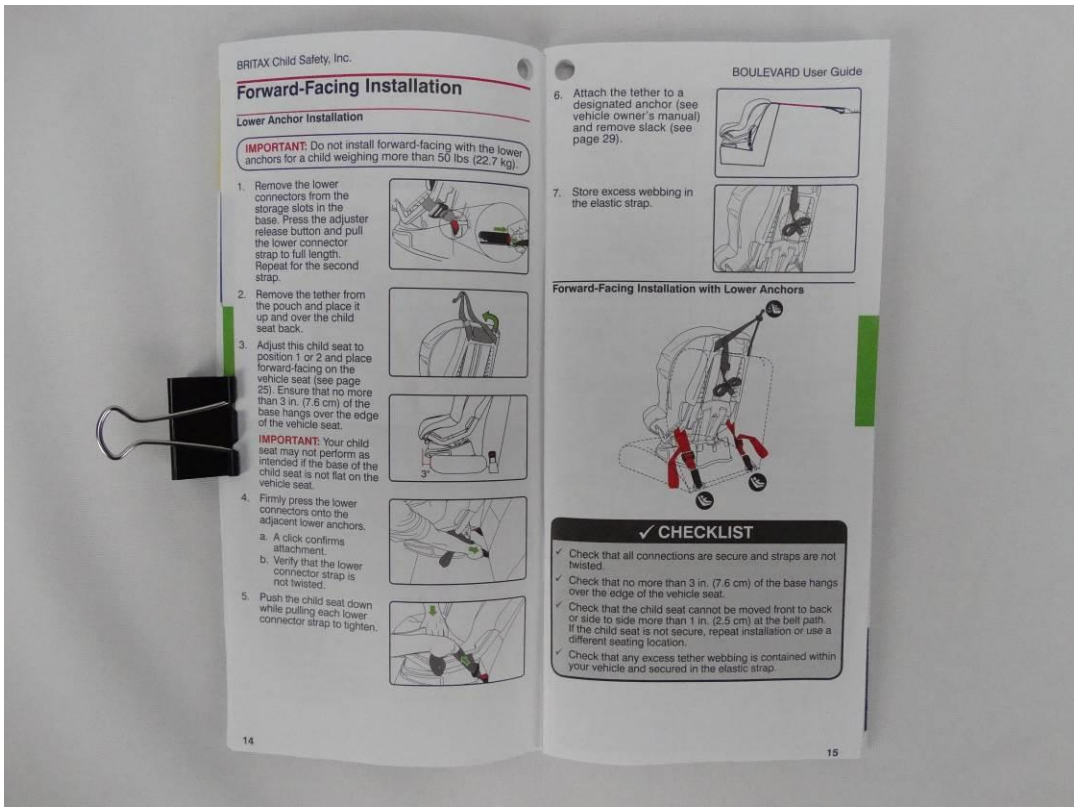
LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU



LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU



BRITAX Child Safety, Inc.

Forward-Facing Installation

Lower Anchor Installation

IMPORTANT: Do not install forward-facing with the lower anchors for a child weighing more than 50 lbs (22.7 kg).

1. Remove the lower connectors from the storage slots in the base. Press the adjuster release button and pull the lower connector strap to full length. Repeat for the second strap.
2. Remove the tether from the pouch and place it up and over the child seat back.
3. Adjust this child seat to position 1 or 2 and place forward-facing on the vehicle seat (see page 25). Ensure that no more than 3 in. (7.6 cm) of the base hangs over the edge of the vehicle seat.

   IMPORTANT: Your child seat may not perform as intended if the base of the child seat is not flat on the vehicle seat.
4. Firmly press the lower connectors onto the adjacent lower anchors.
   a. A click confirms attachment.
   b. Verify that the lower connector strap is not twisted.
5. Push the child seat down while pulling each lower connector strap to tighten.

14

BOULEVARD User Guide

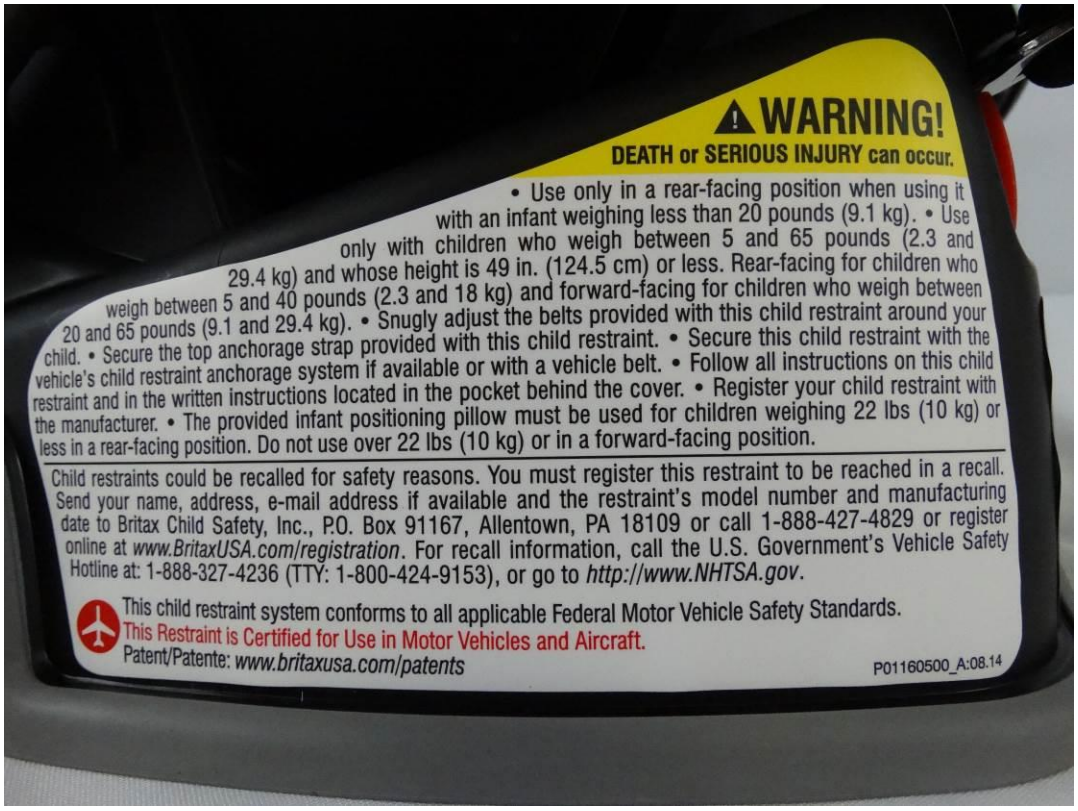
6. Attach the tether to a designated anchor (see vehicle owner's manual) and remove slack (see page 29).
7. Store excess webbing in the elastic strap.

Forward-Facing Installation with Lower Anchors

✓ CHECKLIST

- ✓ Check that all connections are secure and straps are not twisted.
- ✓ Check that no more than 3 in. (7.6 cm) of the base hangs over the edge of the vehicle seat.
- ✓ Check that the child seat cannot be moved front to back or side to side more than 1 in. (2.5 cm) at the belt path. If the child seat is not secure, repeat installation or use a different seating location.
- ✓ Check that any excess tether webbing is contained within your vehicle and secured in the elastic strap.

15



⚠ WARNING!

DEATH or SERIOUS INJURY can occur.

• Use only in a rear-facing position when using it with an infant weighing less than 20 pounds (9.1 kg). • Use only with children who weigh between 5 and 65 pounds (2.3 and 29.4 kg) and whose height is 49 in. (124.5 cm) or less. Rear-facing for children who weigh between 5 and 40 pounds (2.3 and 18 kg) and forward-facing for children who weigh between 20 and 65 pounds (9.1 and 29.4 kg). • Snugly adjust the belts provided with this child restraint around your child. • Secure the top anchorage strap provided with this child restraint. • Secure this child restraint with the vehicle's child restraint anchorage system if available or with a vehicle belt. • Follow all instructions on this child restraint and in the written instructions located in the pocket behind the cover. • Register your child restraint with the manufacturer. • The provided infant positioning pillow must be used for children weighing 22 lbs (10 kg) or less in a rear-facing position. Do not use over 22 lbs (10 kg) or in a forward-facing position.

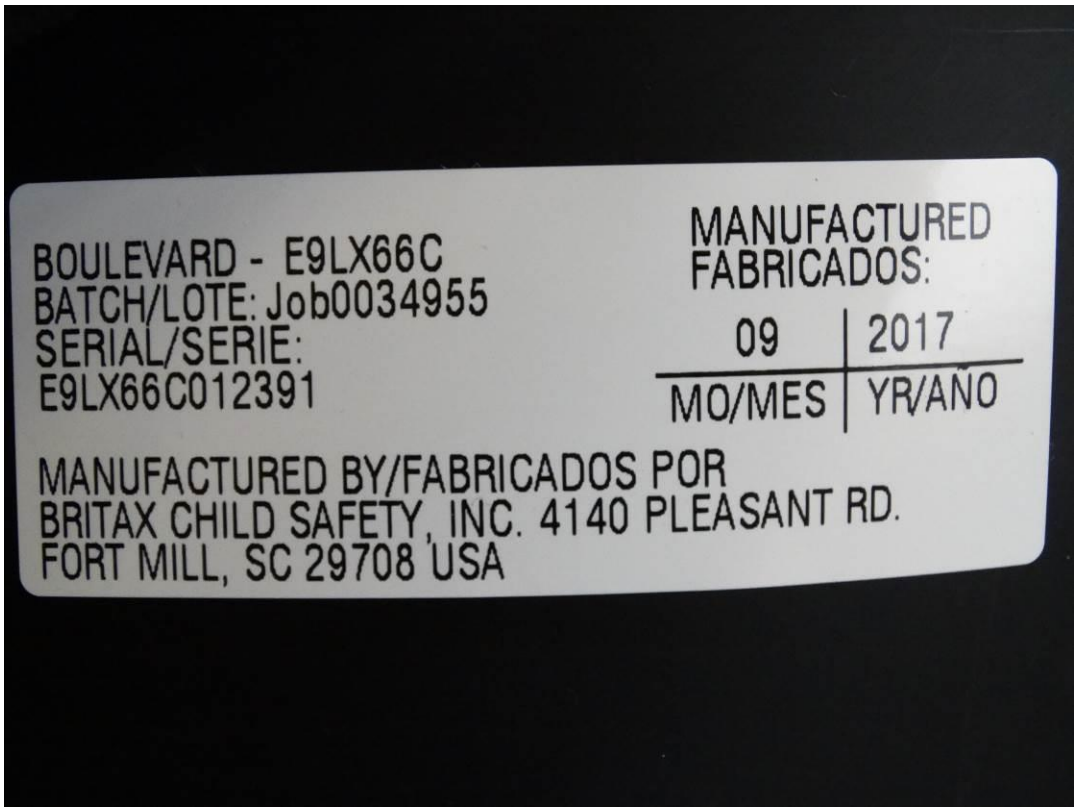
Child restraints could be recalled for safety reasons. You must register this restraint to be reached in a recall. Send your name, address, e-mail address if available and the restraint's model number and manufacturing date to Britax Child Safety, Inc., P.O. Box 91167, Allentown, PA 18109 or call 1-888-427-4829 or register online at *www.BritaxUSA.com/registration*. For recall information, call the U.S. Government's Vehicle Safety Hotline at: 1-888-327-4236 (TTY: 1-800-424-9153), or go to *http://www.NHTSA.gov*.

This child restraint system conforms to all applicable Federal Motor Vehicle Safety Standards.
This Restraint is Certified for Use in Motor Vehicles and Aircraft.
Patent/Patente: *www.britaxusa.com/patents*

P01160500_A:08.14

LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU



LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

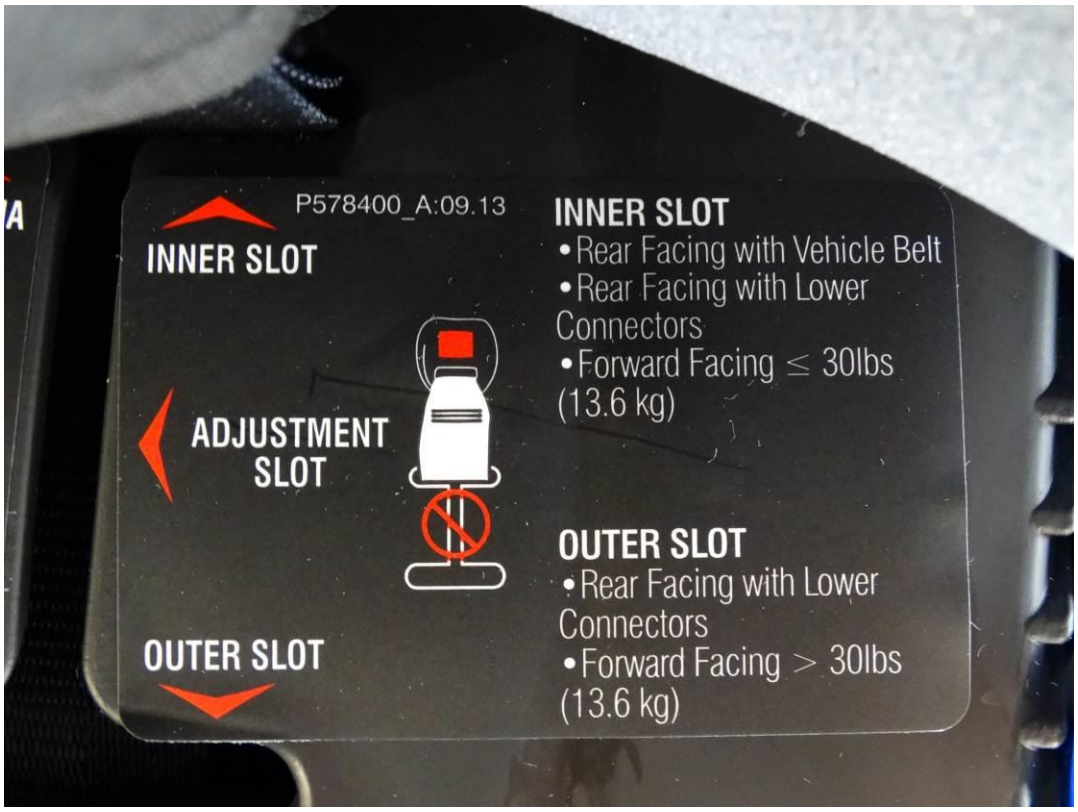
LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

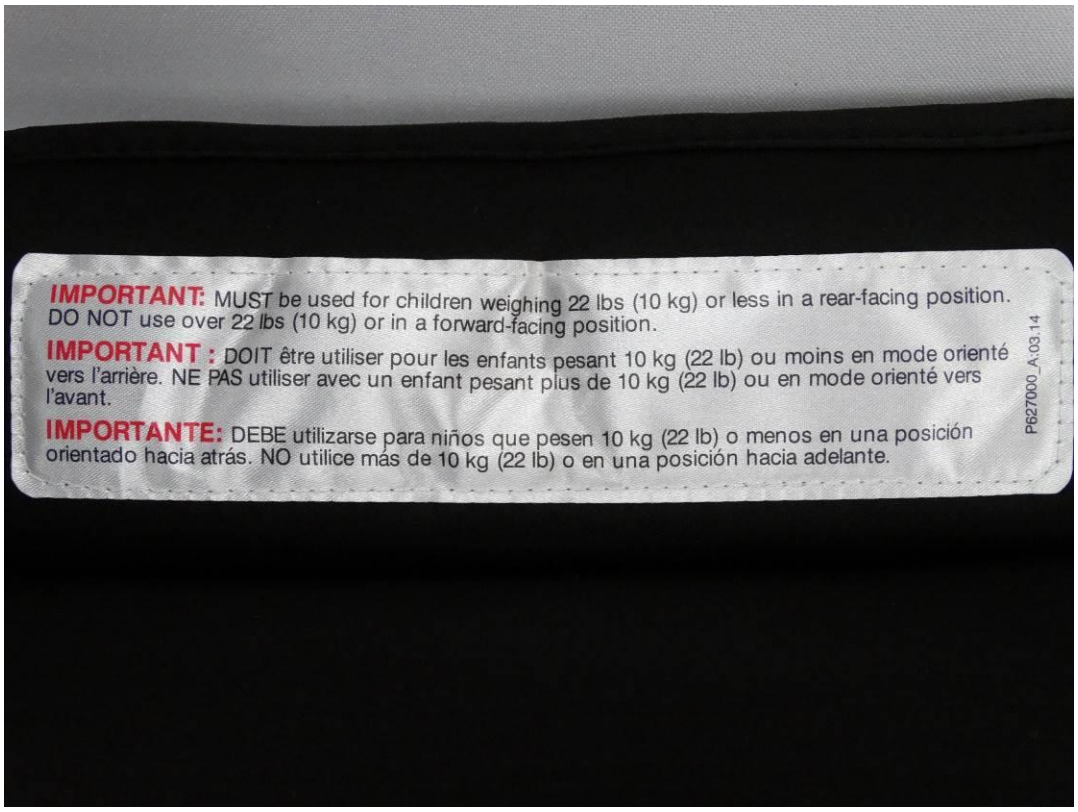
Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

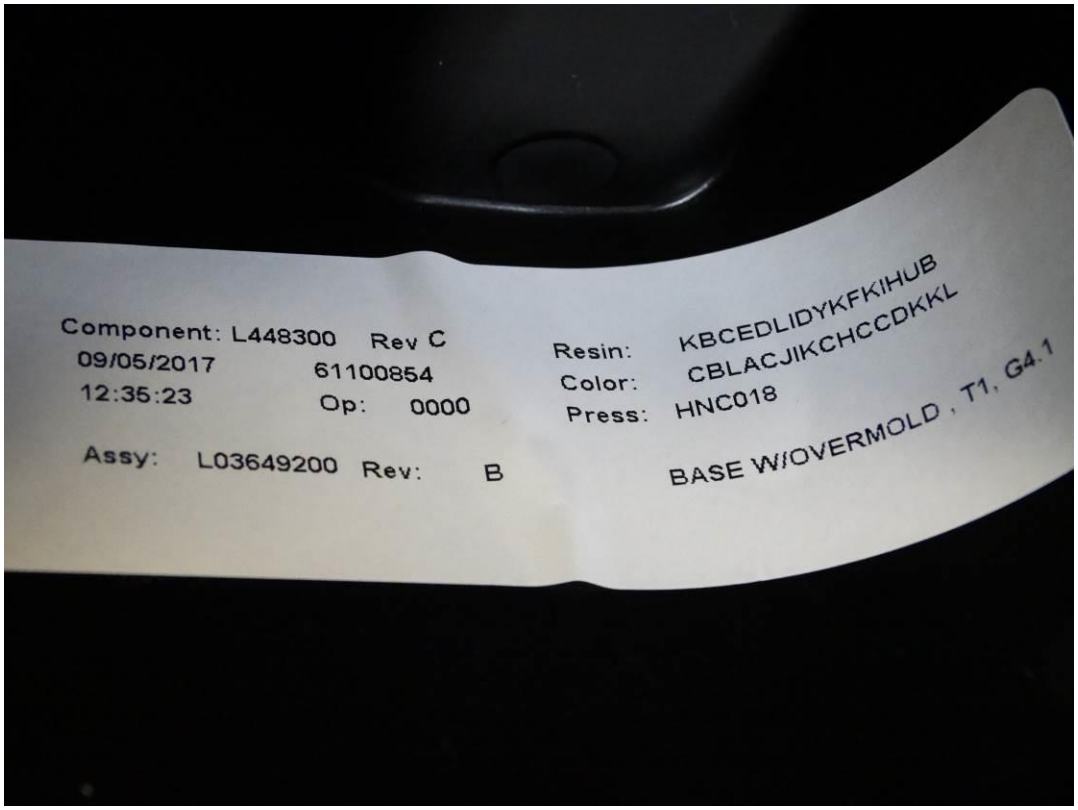
Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU



LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU





LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

LABELS

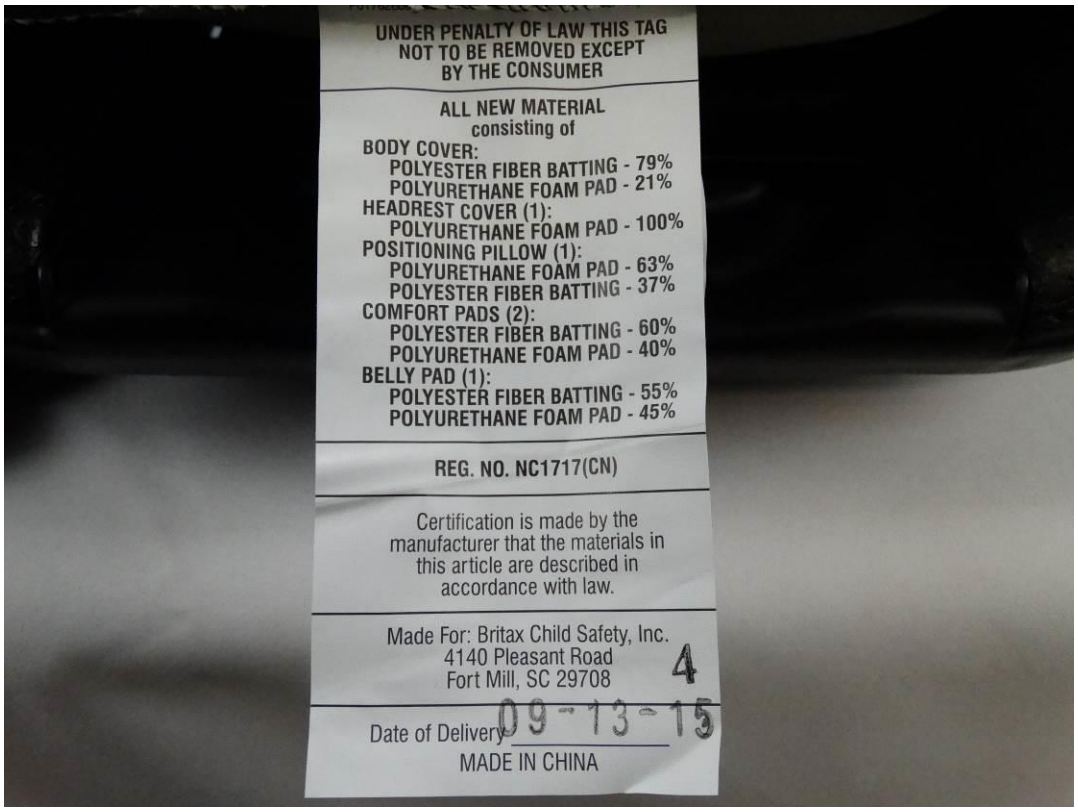
Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

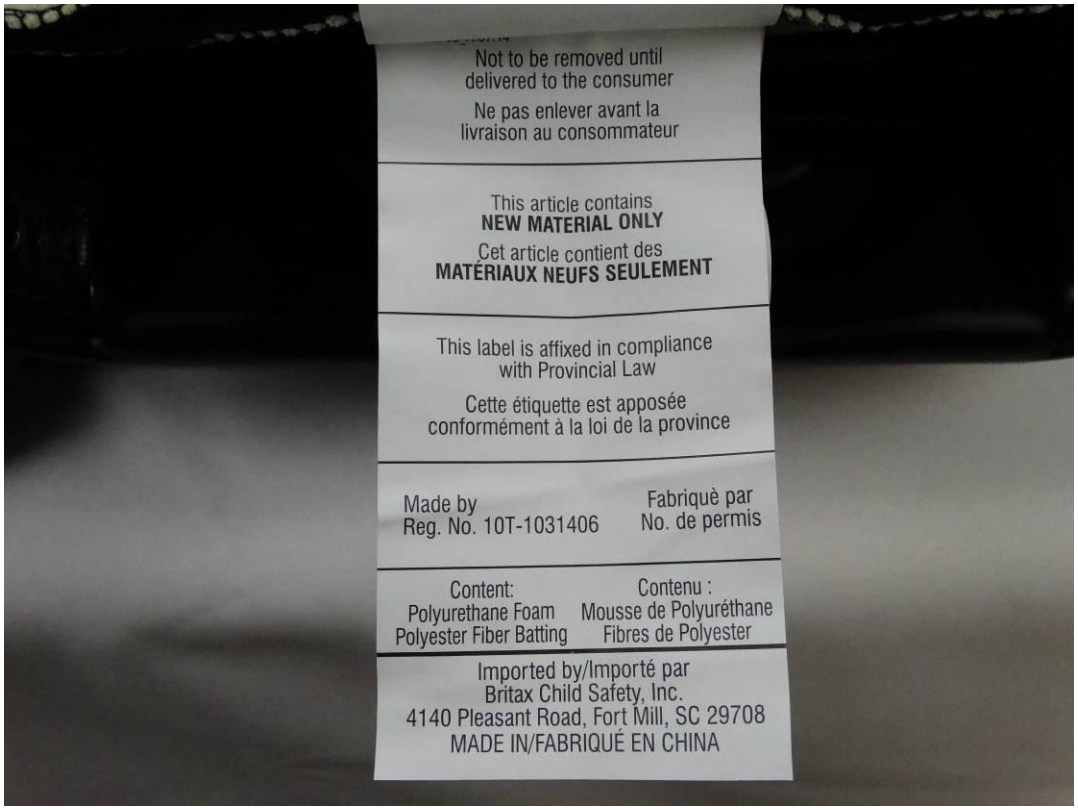
LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

LABELS

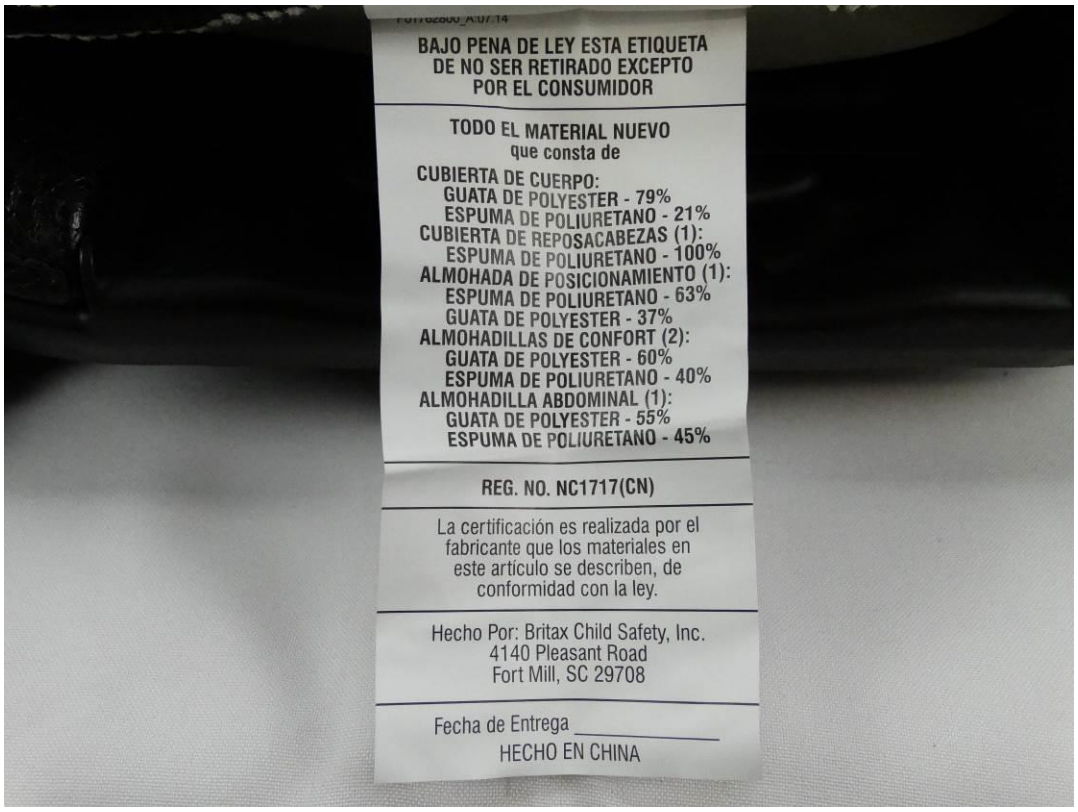
Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU

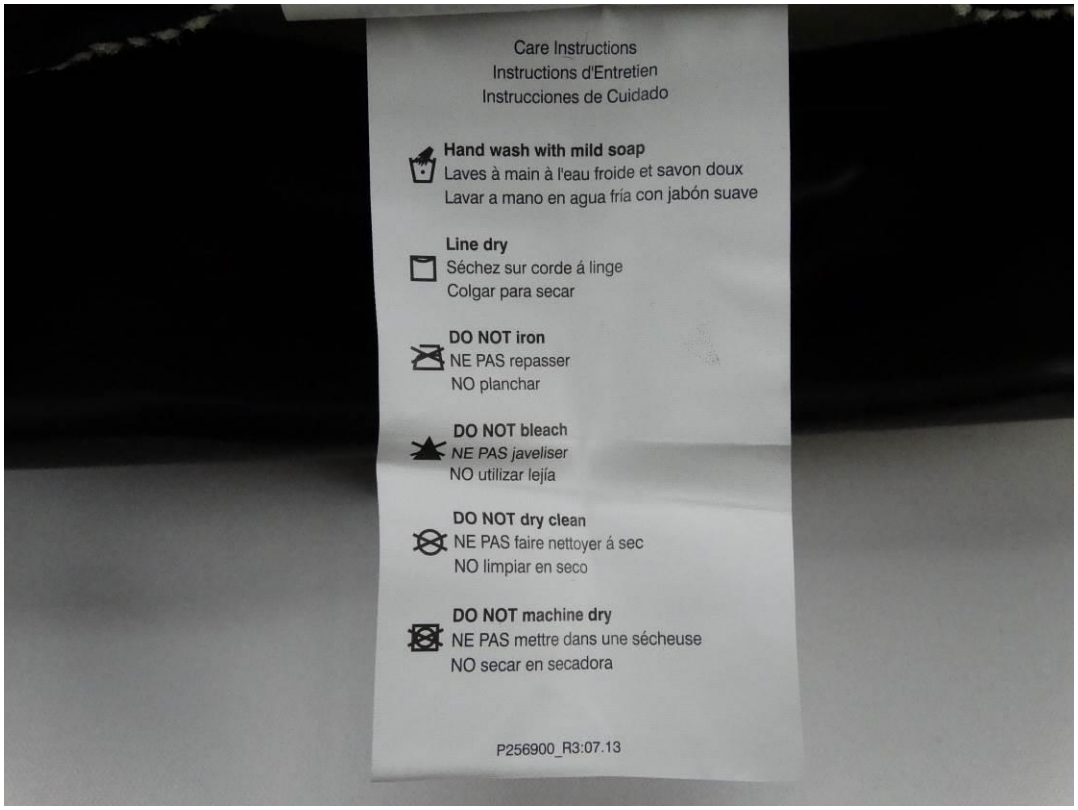




LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU





LABELS

Item Code: 006-BE9LX66C-01-NINRN2FR
Item Code: 006-BE9LX66C-02-12CRN2FR
Item Code: 006-BE9LX66C-03-6H3FN2TU
Item Code: 006-BE9LX66C-04-3H3FNLTU
Item Code: 006-BE9LX66C-05-12CFNLTU
Item Code: 006-BE9LX66C-06-6W3FN2TU