

REPORT NUMBER: 213-CAL-19-026

**SAFETY COMPLIANCE TESTING FOR FMVSS 213
CHILD RESTRAINT SYSTEMS**

**Clek
Liing, Model LG19U1**

**PREPARED BY:
CALSPAN CORPOPRATION
4455 GENSESEE ST
BUFFALO, NY 14225**



Report Date: June 2019

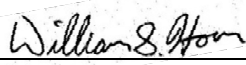
FINAL REPORT

**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**

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Prepared by:  Date: **June 28, 2019**
Adam Hardbottle, SLED
Engineer

Approved by:  Date: **June 28, 2019**
William Horn, SLED Director

FINAL REPORT ACCEPTANCE BY OVSC:

Accepted By: _____

Acceptance Date: _____

213-CAL-19-026

Technical Report Documentation Page

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Table of Contents

Technical Report Documentation Page 4

Table of Contents..... 4

SECTION 1 5

 PURPOSE AND TEST PROCEDURE 5

 PURPOSE 5

 TEST PROCEDURE..... 5

SECTION 2 6

 INTRODUCTION AND SUMMARY 6

SECTION 3 7

 DATA SHEET 1 7

 CHILD RESTRAINT SYSTEM IDENTIFICATION 7

SECTION 4 8

 DYNAMIC TEST RESULTS DATA SUMMARY 8

SECTION 5 9

DATA SHEET 2 9

 LABELING 9

DATA SHEET 3 10

 PRINTED INSTRUCTIONS FOR PROPER USE 10

DATA SHEET 4 11

 REGISTRATION FORM 11

DATA SHEET 5 12

 MAXIMUM CHILD WEIGHT FOR LOWER ANCHOR USE 12

DATA SHEET 6 14

 ATTACHMENT TO ANCHORAGE SYSTEM 14

DATA SHEET 7 16

 INSTALLATION 16

DATA SHEET 8 18

 MINIMUM HEAD SUPPORT SURFACE 18

DATA SHEET 9 20

 TORSO IMPACT PROTECTION 20

DATA SHEET 10 22

 PROTRUSION LIMITATION 22

DATA SHEET 11 23

 DYNAMIC IMPACT TEST CONDITIONS – TEST 1 23

 DYNAMIC IMPACT SLED PULSE – TEST 1 24

DATA SHEET 12 25

 BELT RESTRAINT – TEST 1 25

DATA SHEET 13.....	26
BUCKLE RELEASE – TEST 1.....	26
DATA SHEET 14.....	27
SYSTEM INTEGRITY – TEST 1.....	27
DATA SHEET 15.....	28
INJURY CRITERIA – TEST 1.....	28
INJURY CRITERIA – HEAD ACCELERATION PLOTS – TEST 1.....	29
INJURY CRITERIA – CHEST ACCELERATION PLOTS – TEST 1.....	30
DATA SHEET 16.....	31
OCCUPANT EXCURSION – TEST 1.....	31
DATA SHEET 17.....	32
OCCUPANT EXCURSION – TEST 1.....	32
DATA SHEET 18.....	33
DYNAMIC IMPACT TEST CONDITIONS – TEST 2.....	33
DYNAMIC IMPACT SLED PULSE – TEST 2.....	34
DATA SHEET 19.....	35
BELT RESTRAINT – TEST 2.....	35
DATA SHEET 20.....	36
BUCKLE RELEASE – TEST 2.....	36
DATA SHEET 21.....	37
SYSTEM INTEGRITY – TEST 2.....	37
DATA SHEET 22.....	38
INJURY CRITERIA – TEST 2.....	38
DATA SHEET 23.....	39
OCCUPANT EXCURSION – TEST 2.....	39
DATA SHEET 24.....	40
OCCUPANT EXCURSION – TEST 2.....	40
DATA SHEET 25.....	41
AIRCRAFT PASSENGER SEAT INVERSION – TEST A.....	41
DATA SHEET 26.....	43
AIRCRAFT PASSENGER SEAT INVERSION - TEST B.....	43
SECTION 6.....	45
INTERPRETATION AND/OR DEVIATIONS FROM FMVSS 213.....	45
SECTION 7.....	46
TEST CONFIGURATION CODES.....	46
SECTION 8.....	47
INSTRUMENTATION CALIBRATION.....	47
Sled and Facility Calibrations.....	47
ATD Calibrations.....	48

Section 950

PHOTOGRAPHS50

 Sled Photos50

 Dynamic Test Photos.....51

 Dynamic Test Photos.....58

 Inversion Test Photos65

 Inversion Test Photos67

 Inversion Test Photos69

 Inversion Test Photos71

 Inspection Photos73

 Label Photos74

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 Calspan Corporation under Contract No. DTNH22-17-R-0037. 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 Calspan 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 Clek, Liing, Model LG19U1 child restraint system. The restraint was dynamically tested in the following configurations:

- 12 month old CRABI, rear facing, optional base, lower anchor, tether free and reclined
- Newborn, rear facing, optional base, lower anchor, tether free and reclined

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

- Newborn, rear facing, other configuration, lap belt, tether free and reclined
- 12 month old CRABI, rear facing, other configuration, lap belt, tether free and reclined

The inspection and testing of the Clek, Liing, Model LG19U1 child restraint met the requirement(s) of FMVSS No. 213 when tested in accordance with TP-213-10 in the configurations and conditions documented in this report.

No test failures were identified

Restraint system inspection, dynamic sled testing and inversion testing were performed by Calspan Corporation, Buffalo NY. Compliance test data sheets for all tests are found in the Data Sheets and Test Data Sections of this report.

SECTION 3

**DATA SHEET 1
CHILD RESTRAINT SYSTEM IDENTIFICATION**

Report No. 213-CAL-19-026

Manufacturer:	Clek
Place of Manufacture per S5.5.2(d):	Canada
Model No.	Liing, Model LG19U1
Group No.	026

1	Item Code	026-LG19U1-01-12CRBLFR
	Date of Manufacture	2019/05/01
	Sled Test No.	FM06-19-97A
2	Item Code	026-LG19U1-02-NINRBLFR
	Date of Manufacture	2019/05/01
	Sled Test No.	FM06-19-97B
3	Item Code	
	Date of Manufacture	
	Sled Test No.	
4	Item Code	
	Date of Manufacture	
	Sled Test No.	
5	Item Code	
	Date of Manufacture	
	Sled Test No.	
6	Item Code	
	Date of Manufacture	
	Sled Test No.	

**SECTION 4
DYNAMIC TEST RESULTS DATA SUMMARY**

Child Restraint System – Clek / Liing / LG19U1										
Item Code	Sled Test No.	Dummy Selection and Test Mode (see legend below)	Lower Anchors Used Y/N	Tether Used Y/N	HIC (1000 max)	Chest g clip (60 g max)	Head Excursion (720 mm max, 813 mm max w/o tether)	Knee Excursion (915 mm max)	Seat Back Angle (70 deg max)	Pass/Fail
026-LG19U1-01-12CRBLFR	06-19-97A	12C RFR	Y	N	736	57	N/A	N/A	64	Pass
026-LG19U1-02-NINRBLFR	06-19-97B	NIN RFR	Y	N	N/A	N/A	N/A	N/A	66	Pass

Test Mode:

- RF - Rear Facing
- FF - Forward Facing
- U - Upright mode
- R - Reclined mode

ATD:

- NIN – Newborn Infant
- 12C -12 MO, CRABI
- 3H3 – 3 YO, Hybrid III
- 6H2 – 6YO Hybrid 2
- 6H3 – 6YO Hybrid III
- 6W3 – 6 YO, Weighted Hybrid III
- 10H3 – 10YO Hybrid III

**SECTION 5
DATA SHEET 2
LABELING
(FMVSS 213, S5.3, S5.5)**

Report No.:	213-CAL-19-026	Model No.:	Liing, LG19U1
Test Date:	20 June 2019		


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

The following failures were identified:
No failures

Remarks:

S5.5.2(g)(1)(ii): Added wording

Photographs of the labels are included in section 9.

Recorded by: 
Adam Hardbattle, SLED Engineer

Date: June 20, 2019

**DATA SHEET 3
PRINTED INSTRUCTIONS FOR PROPER USE
(FMVSS 213, S5.6)**

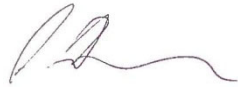
Report No.:	213-CAL-19-026	Model No.:	Liing, LG19U1
Test Date:	21 June 2019		

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

The following failures were identified:
No failures

Remarks:
None

Recorded by: _____



Adam Hardbattle, SLED
Engineer

Date: _____

June 21, 2019

**DATA SHEET 4
REGISTRATION FORM
(FMVSS 213, S5.8)**

Report No.:	213-CAL-19-026	Model No.:	Liing, LG19U1
Test Date:	21 June 2019		

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 S5.6, as applicable	Pass

The following failures were identified:
No failures

Remarks:

Photographs of the registration are included in section 9.

Recorded by: 
Adam Hardbattle, SLED
Engineer

Date: June 21, 2019

**DATA SHEET 5
MAXIMUM CHILD WEIGHT FOR LOWER ANCHOR USE
(FMVSS 213, S5.5.2(I)(3))**

Report No.:	213-CAL-19-026	Model No.:	Liing, LG19U1
Test Date:	21 June 2019		

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	N/A	N/A
Forward Facing	N/A	N/A	N/A

CRS Weight (lb)	Child Weight (CW) Calculation (lb)	Rounded CW Limit permitted under S5.5.2(I)(3)(A)	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

28 lbs	Rear Facing 60-CRS Weight = 32 lbs	35 lbs
	Forward Facing 65-CRS Weight = N/A	N/A

Section	Requirement	Pass / Fail
S5.5.2(I)(3)(A)	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(I)(3)(A)	NA
S5.5.2(I)(3)(B)	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	NA

The following failures were identified:
No failures

Remarks:
Seat is rated for 35lbs. maximum

Recorded by: 
Adam Hardbattle, SLED
Engineer

Date: June 21, 2019

DATA SHEET 6
ATTACHMENT TO ANCHORAGE SYSTEM
(FMVSS 213, S5.9)

Report No.:	213-CAL-19-026	Model No.:	Liing, LG19U1
Test Date:	21 June 2019		

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.	Pass
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 of TP-213-10.	N/A
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 has components other than hooks, that enables the restraint to be securely fastened to the lower anchors, 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 visible under normal daylight lighting conditions.	Pass

The following failures were identified:
No failures

Remarks:
Rigid lower anchor connectors and optional load leg

Recorded by: 
Adam Hardbattle, SLED
Engineer

Date: June 21, 2019

**DATA SHEET 7
INSTALLATION
(FMVSS 213, S5.3)**

Report No.:	213-CAL-19-026	Model No.:	Liing, LG19U1
Test Date:	21 June 2019		

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 seta 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)	Harness 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	The child restraint system is capable of being installed as required by Table S5.3.2 of FMVSS No. 213. Shaded section indicate installation means required by standard.	Pass					
		<i>Lap Belt</i>	<i>Lap belt & Tether (if needed)</i>	<i>Lower Anchors</i>	<i>Lap & Shoulder belt</i>	<i>Seat back Mount</i>	
	<i>Harnesses per S5.3.1(b)(1)-(3) & Figure 12</i>						N/A
	<i>Other Harnesses</i>						N/A
	<i>Car Beds</i>						N/A
	<i>Rear-Facing Restraints</i>	X		X	X		Pass
	<i>Belt-Positioning Seats</i>						N/A
<i>All other child restraints</i>						N/A	
S5.3.3	If a car bed, this child restraint system is designed to be installed laterally.	N/A					

The following failures were identified:
No failures

Remarks:
None

Recorded by: 
Adam Hardbattle, SLED
Engineer

Date: June 21, 2019

**DATA SHEET 8
MINIMUM HEAD SUPPORT SURFACE
(FMVSS 213, S5.2.1)**

Report No.:	213-CAL-19-026	Model No.:	Liing, LG19U1
Test Date:	21 June 2019		

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)	50 cm (19.7 in.)
	> 18 kg (39,7 lb)	56 cm (22 in.)
S5.2.1.1(b)	Side Wing Depth	Minimum Back Support Width
	< 102 mm (4.0 in)	203 mm (8 in.)
	≥ 102 mm (4.0 in)	156 mm (6 in.)

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

Back Support Height

Manufacturers Recommended Maximum Child Weight kg (lb)	Measured Height mm (in)	Pass / Fail
15.9 (35)	500 (19.7)	Pass

Back Support Width

Measured Side Wing Depth mm (in)	Measured Width mm (in)	Pass / Fail
38 (1.5)	230 (9)	Pass

The following failures were identified:
No failures

Remarks:
None

Recorded by: 
Adam Hardbattle, SLED
Engineer

Date: June 21, 2019

**DATA SHEET 9
TORSO IMPACT PROTECTION
(FMVSS 213, S5.2.2)**

Report No.:	213-CAL-19-026	Model No.:	Liing, LG19U1
Test Date:	21 June 2019	220 (9.44)	

Section	Surface Requirement	Contour Requirement	Other Requirement
S5.2.2.1(a)	Back Support Surface	Flat or concave	Continuous surface area of ≥ 85 in ²
S5.2.2.1(b)	Side Support Surface	Flat or concave	Continuous surface area of ≥ 24 in ² for restraints having a recommended child weight of ≥ 20 lb
		Flat or concave	Continuous surface area of ≥ 48 in ² for restraints having a recommended child weight of < 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 concave	Radius of Curvature ≥ 2 in
S5.2.2.2	Fixed or Moveable Surface Forward of Dummy		Must be used to restrain dummy and allow compliance with injury & excursion data

Support Surface Results

Surface	Contour	Measured Area	Pass / Fail
Back Support	Flat	≥ 85 in ²	Pass
Side Support	Flat	≥ 24 in ²	Pass

Surfaces Restraining Torso Forward Movement Results

	Contour	Measured Area	Pass / Fail
Horizontal Cross Section	N/A	N/A	N/A
Vertical Cross Section	N/A	N/A	N/A

Fixed or Movable Surfaces Forward of Dummy Results

Yes/No	Pass / Fail
No	Pass

The following failures were identified:
No failures

Remarks:
None

Recorded by: 
Adam Hardbattle, SLED
Engineer

Date: June 21, 2019

**DATA SHEET 10
PROTRUSION LIMITATION
(FMVSS 213, S5.2.4)**

Report No.:	213-CAL-19-026	Model No.:	Liing, LG19U1
Test Date:	19 June 2019		

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

The following failures were identified:
No failures

Remarks:
None

Recorded by: 
Adam Hardbattle, SLED
Engineer

Date: June 21, 2019

DATA SHEET 11
DYNAMIC IMPACT TEST CONDITIONS – TEST 1
(FMVSS 213, S6.1)

Report No.:	213-CAL-19-026	Sled Test No.	FM06-19-97A
Test Date:	19 June 2019	Item Code	026-LG19U1-01-12CRBLFR

Laboratory Ambient Conditions During Testing:

Temperature Degrees C (F)	21.4C (70.5F)
Relative Humidity %	58.9%

Pulse:

Test Configuration (I or II):	I
Velocity (km/h (mph)):	47.0 km/h (29.2 mph)

Dummy:

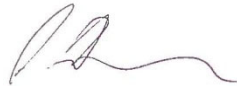
Dummy Description:	CRABI 12 Month Old (Part 572R)
Dummy Serial Number:	085

Restraint Installation:

Installed Direction:	Rear Facing
Base Usage:	Optional Base Used
Attachment Method:	Lower Anchor
Tether Usage:	No, Tether Free
Seat Back Position:	Bubble Level / R5
Internal Shoulder Harness Position:	Slot 3, Counted from bottom up
Buckle Harness Position:	NA

Remarks:

Pre and Post Test Photos are presented in Section 9.

Recorded by: 
 Adam Hardbattle, SLED
 Engineer

Date: June 21, 2019

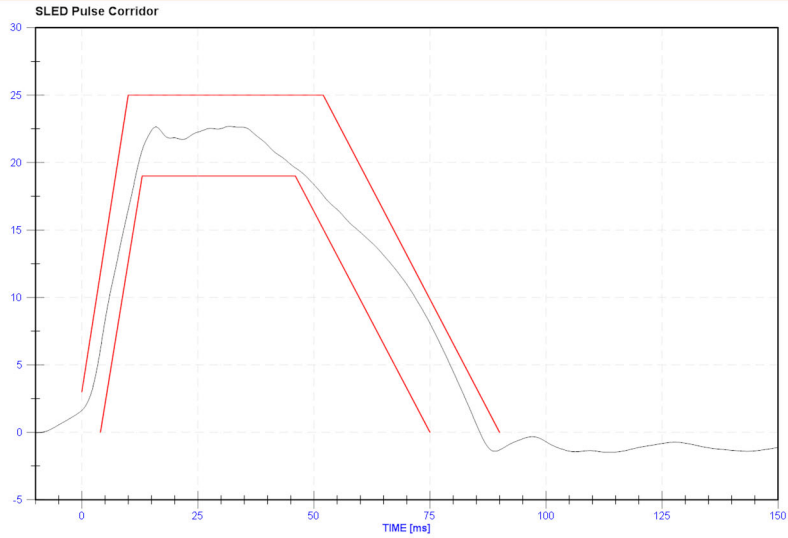
DYNAMIC IMPACT SLED PULSE – TEST 1 (FMVSS 213, S6.1)

Report No.:	213-CAL-19-026	Sled Test No.:	FM06-19-97A
Test Date:	19 June 2019	Item Code	026-LG19U1-01-12CRBLFR



NHTSA FM06-19-097

Test Date:
June 19, 2019

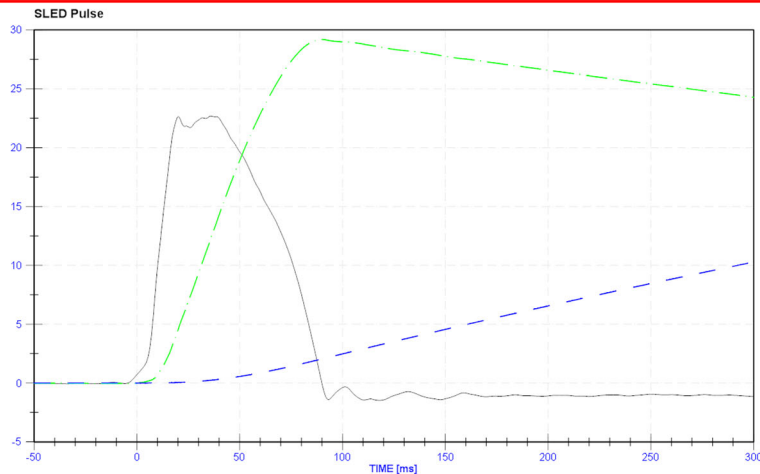


	Maximum	Time (ms)	Filter Class	Legend
SLED Acceleration (g's)	22.68	36.1	CFC 60	S0SLED000R00ACXD



NHTSA FM06-19-097

Test Date:
June 19, 2019



	Maximum	Time (ms)	Filter Class	Legend
SLED Acceleration (g's)	22.68	117.9	CFC 60	S0SLED000000ACXD
SLED Velocity (mph)	29.18	-14.6	CFC 180	S0SLED000000VAXC
SLED Displacement (ft)	10.27	0.4	CFC 180	S0SLED000000DVXC

DATA SHEET 12
BELT RESTRAINT – TEST 1
(FMVSS 213, S5.4.3)

Report No.:	213-CAL-19-026	Sled Test No.	FM06-19-97A
Test Date:	19 June 2019	Item Code	026-LG19U1-01-12CRBLFR

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 manufacturers installation instructions.	Pass

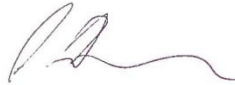
Section	Requirement	Yes / No	Pass / Fail
S5.4.3.2	Direct Restraint. Belts impose no loads on the child resulting from mass of the system or the test seat		Pass
	The restraint has one or more belts that contact the dummy for restraint	Yes	If all are "Yes" Restraint fails S5.4.3.2
	The restraint has a 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 harness and infant restraints for children up to 10kg (22lb), 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 & crotch)	N/A
S5.4.3.3(c)	Prevent Standing	N/A

Remarks

Recorded by: _____


 Adam Hardbattle, SLED Engineer

Date: _____

June 21, 2019

DATA SHEET 13
BUCKLE RELEASE – TEST 1
(FMVSS 213, S5.4.3.5, S6.2)

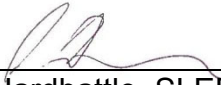
Report No.:	213-CAL-19-026	Sled Test No.	FM06-19-97A
Test Date:	19 June 2019	Item Code	026-LG19U1-01-12CRBLFR

Section	Requirement	Measurement	Pass / Fail
S5.4.3.5(a)	Pre-Impact Release Force Releases under 40-60 N	44 N	Pass
S5.4.3.5(a)	Post-Impact Release Force* Releases \leq 71 N	48 N	Pass
S5.4.3.5(a)	Minimum Surface Area of Buckle \geq 3.9 cm ² (0.6 in ²)	4 cm ²	Pass
S5.4.3.5(a)	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

None

Recorded by: 
Adam Hardbattle, SLED
Engineer

Date: June 21, 2019

DATA SHEET 14
SYSTEM INTEGRITY – TEST 1
(FMVSS 213, S5.1.1)


Report No.:	213-CAL-19-026	Sled Test No.	FM06-19-97A
Test Date:	19 June 2019	Item Code	026-LG19U1-01-12CRBLFR

S5.1.1 When dynamically tested, the child restraint 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 with exposing surfaces with a radius of less than 9.53 mm (3/8 in.)	Pass
	Exhibit no partial separation with exposing surfaces with protrusions greater than 6.35 mm (1/4 in.)	Pass
S5.1.1(b)(1)	Adjustment Position – Remain in the same adjustment position during the test that it was immediately before the test	Pass
S5.1.1(b)(2)(ii)	Exposed Openings – Have no exposed opening larger than 6.35 mm (1/4 in.) before the test becomes smaller during the testing as a result of the movement of the seating service 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 and seating surface to be less than 45 degrees at the completion of the test	None

Remarks

None

Recorded by: 
 Adam Hardbatt, SLED
 Engineer

Date: June 21, 2019

**DATA SHEET 15
INJURY CRITERIA – TEST 1
(FMVSS 213, S5.1.2)**

Report No.:	213-CAL-19-026	Sled Test No.	FM06-19-97A
Test Date:	19 June 2019	Item Code	026-LG19U1-01-12CRBLFR

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
736	Pass

Chest Injury Criterion Results

Max Acceleration lasting 3ms (g)	Pass / Fail
57	Pass

Remarks

Recorded by:  _____
Adam Hardbattle, SLED
Engineer

Date: June 21, 2019

**INJURY CRITERIA – HEAD ACCELERATION PLOTS – TEST 1
(FMVSS 213, S5.1.2)**

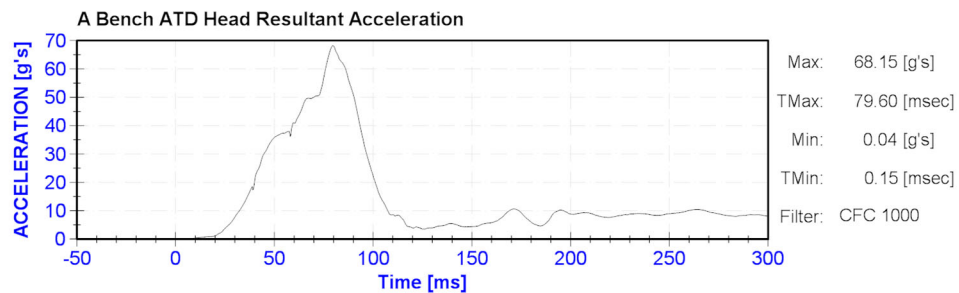
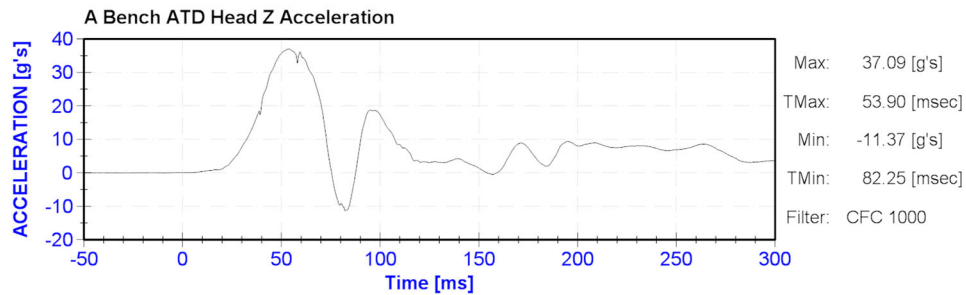
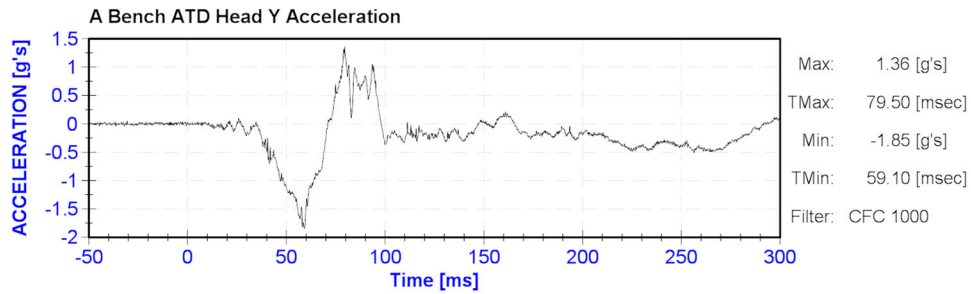
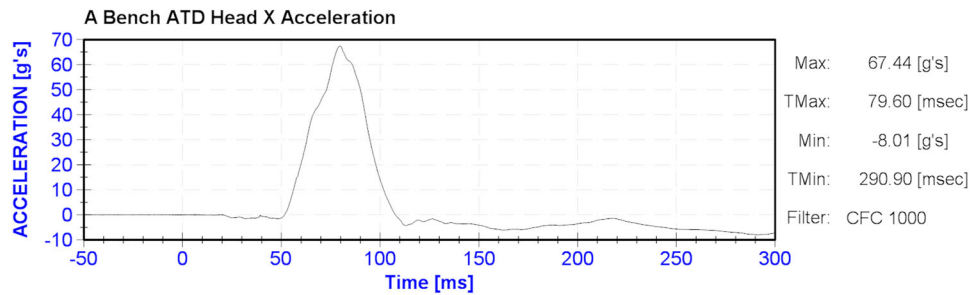
Report No.:	213-CAL-19-026
Test Date:	19 June 2019
HIC 36ms	736

Sled Test No.	FM06-19-97A
Item Code	026-LG19U1-01-12CRBLFR
Resultant	68 g's



NHTSA FM06-19-097

Test Date:
June 19,2019



**INJURY CRITERIA – CHEST ACCELERATION PLOTS – TEST 1
(FMVSS 213, S5.1.2)**

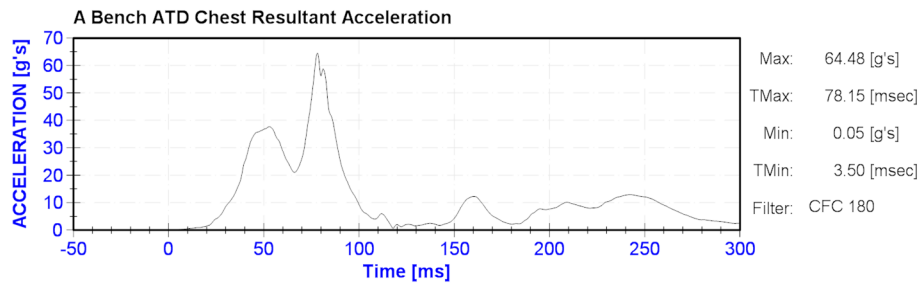
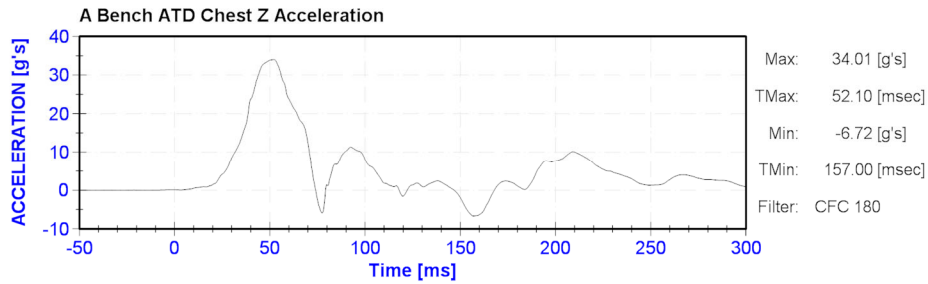
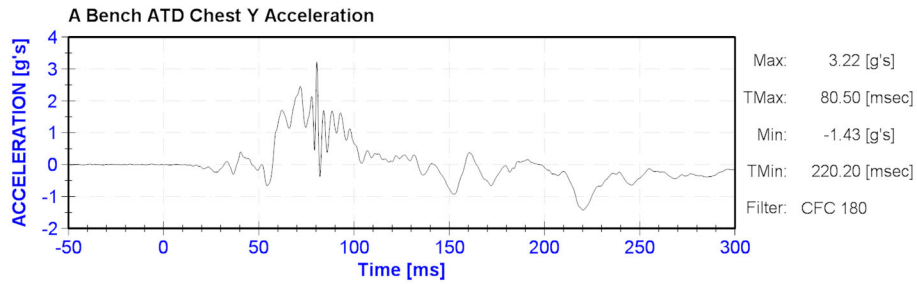
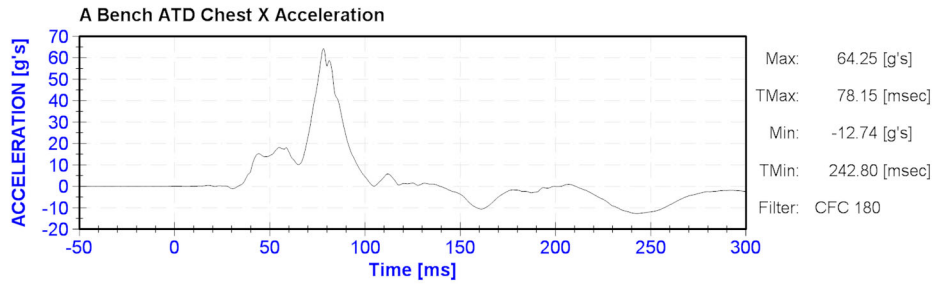
Report No.:	213-CAL-19-026
Test Date:	19 June 2019
3ms Clip	57 g's

Sled Test No.	FM06-19-97A
Item Code	026-LG19U1-01-12CRBLFR
Resultant	64 g's



NHTSA FM06-19-097

Test Date:
June 19, 2019



DATA SHEET 16
OCCUPANT EXCURSION – TEST 1
(FMVSS 213, S5.1.3, S5.1.4, S5.2.1.1(c))

Report No.:	213-CAL-19-026	Sled Test No.	FM06-19-97A
Test Date:	19 June 2019	Item Code	026-LG19U1-01-12CRBLFR

FORWARD-FACING RESTRAINTS

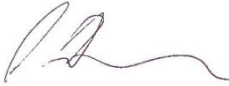
Section	Requirement	Measurement	Pass / Fail
S5.1.3.1	Torso Retention – CRS shall retain the torso within system		N/A
S5.1.3.1(a)(1)	Head Excursion - ≤ 720 mm (28.4 in.) with tether ≤ 813 mm (32 in.) No tether	N/A	N/A
S5.1.3.1(a)(2)	Knee Excursion - ≤ 91.5 cm (36 in.)	N/A	N/A
S5.2.1.1(c)	Head-Torso Angle - Rearward change < 45 degrees	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 vertical ≤ 70 degrees	64	Pass
S5.2.1.1(c)	Head-Torso Angle - Rearward change ≤ 45 degrees	≤ 45°	Pass

Remarks

Excursion camera locations (forward of Z point) are 28.4", Camera speed = 2000fps and focal length of lenses = 12.5mm

Recorded by: 
 Adam Hardbattle, SLED
 Engineer

Date: June 21, 2019

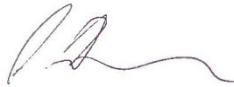
DATA SHEET 17
OCCUPANT EXCURSION – TEST 1
(FMVSS 213, S5.1.3.3)

CAR BED RESTRAINTS

Section	Requirement	Measurement	Pass / Fail
Head – Torso Retention (FMVSS 213, S5.1.3.3)	Retain within confines of system	N/A	N/A

Remarks

Recorded by: _____



Adam Hardbattle, SLED
Engineer

Date: _____

June 21, 2019

DATA SHEET 18
DYNAMIC IMPACT TEST CONDITIONS – TEST 2
(FMVSS 213, S6.1)

Report No.:	213-CAL-19-026	Sled Test No.	FM06-19-97B
Test Date:	19 June 2019	Item Code	026-LG19U1-02-NINRBLFR

Laboratory Ambient Conditions During Testing:

Temperature Degrees C (F)	21.4C (70.5F)
Relative Humidity %	58.9%

Pulse:

Test Configuration (I or II):	I
Velocity (km/h (mph)):	47.0 km/h (29.2 mph)

Dummy:

Dummy Description:	CAMI Newborn (Part 572R)
Dummy Serial Number:	032

Restraint Installation:

Installed Direction:	Rear Facing
Base Usage:	Optional Base Used
Attachment Method:	Lower Anchors
Tether Usage:	No, Tether Free
Seat Back Position:	Bubble level / Recline 1
Internal Shoulder Harness Position:	Slot 2, Counted from bottom up
Buckle Harness Position:	NA

Remarks:

Pre and Post Test Photos are presented in Section 9.

Recorded by: 

Adam Hardbattle, SLED
 Engineer

Date: June 21, 2019

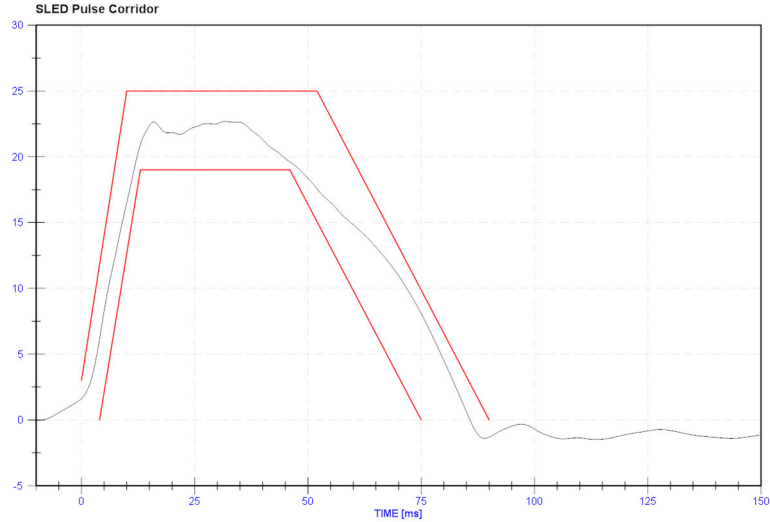
DYNAMIC IMPACT SLED PULSE – TEST 2 (FMVSS 213, S6.1)

Report No.:	213-CAL-19-026	Sled Test No.:	FM06-19-97B
Test Date:	19 June 2019	Item Code	026-LG19U1-02-NINRBLFR



NHTSA FM06-19-097

Test Date:
June 19, 2019

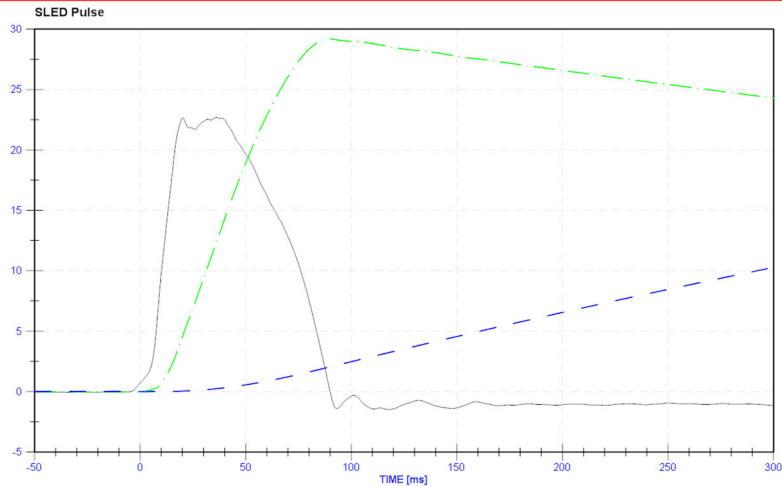


	Maximum	Time (ms)	Filter Class	Legend
SLED Acceleration (g's)	22.68	36.1	CFC 60	SOSLED000R00ACXD



NHTSA FM06-19-097

Test Date:
June 19, 2019



	Maximum	Time (ms)	Filter Class	Legend
SLED Acceleration (g's)	22.68	117.9	CFC 60	SOSLED000000ACXD
SLED Velocity (mph)	29.18	-14.6	CFC 180	SOSLED000000VAXC
SLED Displacement (ft)	10.27	0.4	CFC 180	SOSLED000000DVXC

**DATA SHEET 19
BELT RESTRAINT – TEST 2
(FMVSS 213, S5.4.3)**

Report No.:	213-CAL-19-026	Sled Test No.	FM06-19-97B
Test Date:	19 June 2019	Item Code	026-LG19U1-02-NINRBLFR

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 manufacturers installation instructions.	Pass

Section	Requirement	Yes / No	Pass / Fail
S5.4.3.2	Direct Restraint. Belts impose no loads on the child resulting from mass of the system or the test seat		Pass
	The restraint has one or more belts that contact the dummy for restraint	Yes	If all are "Yes" Restraint fails S5.4.3.2
	The 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 harness and infant restraints for children up to 10kg (22lb), 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 & crotch)	N/A
S5.4.3.3(c)	Prevent Standing	N/A

Remarks

Recorded by: 
Adam Hardbattle, SLED Engineer

Date: June 21, 2019

DATA SHEET 20
BUCKLE RELEASE – TEST 2
(FMVSS 213, S5.4.3.5, S6.2)


Report No.:	213-CAL-19-026	Sled Test No.	FM06-19-97B
Test Date:	19 June 2019	Item Code	026-LG19U1-02-NINRBLFR

Section	Requirement	Measurement	Pass / Fail
S5.4.3.5(a)	Pre-Impact Release Force Releases under 40-60 N	45 N	Pass
S5.4.3.5(a)	Post-Impact Release Force* Releases \leq 71 N	45 N	Pass
S5.4.3.5(a)	Minimum Surface Area of Buckle \geq 3.9 cm ² (0.6 in ²)	4 cm ²	Pass
S5.4.3.5(a)	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

None

Recorded by: 
 Adam Hardbattle, SLED
 Engineer

Date: June 21, 2019

DATA SHEET 21
SYSTEM INTEGRITY – TEST 2
(FMVSS 213, S5.1.1)

Report No.:	213-CAL-19-026	Sled Test No.	FM06-19-97B
Test Date:	19 June 2019	Item Code	026-LG19U1-02-NINRBLFR

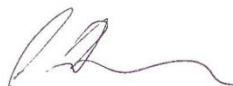
S5.1.1 When dynamically tested, the child restraint shall:

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 with exposing surfaces with a radius of less than 9.53 mm (3/8 in.)	Pass
	Exhibit no partial separation with exposing surfaces with protrusions greater than 6.35 mm (1/4 in.)	Pass
S5.1.1(b)(1)	Adjustment Position – Remain in the same adjustment position during the test that it was immediately before the test	Pass
S5.1.1(b)(2)(ii)	Exposed Openings – Have no exposed opening larger than 6.35 mm (1/4 in.) before the test becomes smaller during the testing as a result of the movement of the seating service 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 and seating surface to be less than 45 degrees at the completion of the test	None

Remarks

None

Recorded by: _____


 Adam Hardbatt, SLED
 Engineer

Date: _____

June 21, 2019

**DATA SHEET 22
INJURY CRITERIA – TEST 2
(FMVSS 213, S5.1.2)**

Report No.:	213-CAL-19-026	Sled Test No.	FM06-19-97B
Test Date:	19 June 2019	Item Code	026-LG19U1-02-NINRBLFR

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
N/A	N/A

Chest Injury Criterion Results

Max Acceleration lasting 3ms (g)	Pass / Fail
N/A	N/A

Remarks

Newborn ATD has no injury criteria or instrumentation

Recorded by: 
 Adam Hardbattle, SLED
 Engineer

Date: June 21, 2019

DATA SHEET 23
OCCUPANT EXCURSION – TEST 2
(FMVSS 213, S5.1.3, S5.1.4, S5.2.1.1(c))

Report No.:	213-CAL-19-026	Sled Test No.	FM06-19-97B
Test Date:	19 June 2019	Item Code	026-LG19U1-02-NINRBLFR

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 (28.4 in.) with tether ≤ 813 mm (32 in.) No tether	N/A	N/A
S5.1.3.1(a)(2)	Knee Excursion - < 91.5 cm (36 in.)	N/A	N/A
S5.2.1.1(c)	Head-Torso Angle - Rearward change ≤ 45 degrees	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 vertical ≤ 70 degrees	66	Pass
S5.2.1.1(c)	Head-Torso Angle - Rearward change ≤ 45 degrees	≤ 45°	Pass

Remarks

Excursion camera locations (forward of Z point) are 28.4", Camera speed = 2000fps and focal length of lenses = 12.5mm

Recorded by: 
 Adam Hardbattle, SLED
 Engineer

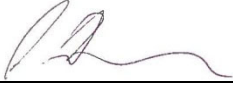
Date: June 21, 2019

DATA SHEET 24
OCCUPANT EXCURSION – TEST 2
(FMVSS 213, S5.1.3.3)

CAR BED RESTRAINTS

Section	Requirement	Measurement	Pass / Fail
Head – Torso Retention (FMVSS 213, S5.1.3.3)	Retain within confines of system	N/A	N/A

Remarks

Recorded by: 
Adam Hardbatt, SLED
Engineer

Date: June 21, 2019

DATA SHEET 25
AIRCRAFT PASSENGER SEAT INVERSION – TEST A
(FMVSS 213, S8.2, S8.2.5, S8.2.6)

Report No.:	213-CAL-19-026	Test No.	FM06-19-101
Test Date:	24 June 2019	Item Code	026-LG19U1-Inv01-NINRN2FN

Laboratory Ambient Conditions During Testing:

Temperature Degrees C (F)	21.4 C (70.6F)
Relative Humidity %	21.5%

Dummy:

Dummy Description:	CAMI Newborn (Part 572R)
Dummy Serial Number:	032

Restraint Installation:

Installed Direction:	Rearward Facing
Base Usage:	No Other Configuration
Attachment Method	Lap belt
Tether Usage	No
Seat Back Position:	Level Line
Internal Harness Shoulder Strap Position:	Slot 2, Counted from bottom up
Internal Harness Crotch Strap Position:	N/A

Rotation About Y-Axis (Forward):

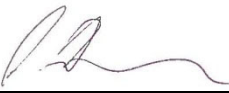
Section	Requirement	Pass/Fail
S8.2.5	The test dummy shall be retained within the CRS	Pass
S8.2.5	The CRS shall be restrained within the aircraft seat	Pass

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 restrained within the aircraft seat	Pass

Remarks:

None

Recorded by: 
Adam Hardbatt, SLED
Engineer

Date: June 27, 2019

DATA SHEET 26
AIRCRAFT PASSENGER SEAT INVERSION - TEST B
(FMVSS 213, S8.2, S8.2.5, S8.2.6)

Report No.:	213-CAL-19-026	Test No.	FM06-19-102
Test Date:	24 June 2019	Item Code	026-LG19U1-Inv02-12CRN2FN

Laboratory Ambient Conditions During Testing:

Temperature Degrees C (F)	21.5 C (70.7F)
Relative Humidity %	21.4%

Dummy:

Dummy Description:	CRABI 12 Month Old (Part 572R)
Dummy Serial Number:	085

Restraint Installation:

Installed Direction:	Rearward Facing
Base Usage:	No Other Configuration
Attachment Method	Lap belt
Tether Usage	No
Seat Back Position:	Level Line
Internal Harness Shoulder Strap Position:	Slot 3, Counted from bottom up
Internal Harness Crotch Strap Position:	N/A

Rotation About Y-Axis (Forward):

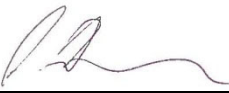
Section	Requirement	Pass/Fail
S8.2.5	The test dummy shall be retained within the CRS	Pass
S8.2.5	The CRS shall be restrained within the aircraft seat	Pass

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 restrained within the aircraft seat	Pass

Remarks:

None

Recorded by: 
Adam Hardbatt, SLED
Engineer

Date: June 27, 2019

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
	3H3 – 3 YO, Hybrid III
	12C -12 MO, CRABI
	6H2 – 6YO Hybrid II
	6H3 – 6YO, Hybrid III
	6W3 – 6 YO, Weighted Hybrid III
	TH3 – 10YO, Hybrid III
Installed Direction	R – Rear Facing
	F – Forward Facing
	S- Faces Sideways (applies to carbeds)
Base Usage	B – Optional base used with CRS
	N – All other configurations
Attachment Method	L – Lower anchors
	2 – Lap belt
	3 – Lap & shoulder belt
	M – Seat back mount
Tether Usage	T – Tether
	F – Tether Free
Seat Back Position	U – Upright
	R – Reclined
	B – HB Booster
	N – No Back Booster

**SECTION 8
INSTRUMENTATION CALIBRATION**

Sled and Facility Calibrations

<i>Instrument</i>	<i>Serial Number</i>	<i>Certification Test</i>	<i>Calibration Date</i>	<i>Due Date</i>
DTS Unit #736	ESL 400704	All	12/10/2018	12/10/2019
DTS Unit #737	ESL 400705	All	12/10/2018	12/10/2019
Temp and Humidity Recorder Onset HOBO	ESL 400632	All	11/08/2018	11/08/2019
Digital Angle Gauge Digi-Pas	ESL 400482	All	9/24/2018	9/24/2019
Bosch/Kent Moore Belt Tension Gauge +/- 1 lb.	ESL 400415	All	3/25/2019	9/25/2019
Bosch/Kent Moore Belt Tension Gauge +/- 1 lb.	ESL 400943	All	3/25/2019	9/25/2019
Imada Force Gauge Model DPSH-440R	ESL 400931	All	3/12/2019	3/12/2020
Imada Force Gauge Model DS2-110	ESL 400368	All	8/10/2018	8/10/2019
Imada Force Gauge Model ZTS-550	ESL 400474	All	7/28/2018	7/28/2019
Proto Torque Wrench	ESL 400978	All	7/19/2018	7/19/2019
Sled Primary x Accelerometer Endevco 7292A	10302	All	5/6/2019	5/6/2020
Sled Secondary X Endevco 7264	P69794	All	5/6/2019	5/6/2020
Sled Secondary Y Endevco 7264	P71301	All	5/6/2019	5/6/2020
Sled Secondary Z MS 64CM30	MS26652	All	5/6/2019	5/6/2020

ATD Calibrations

<i>Instrument</i>	<i>Serial Number</i>	<i>Certification Test</i>	<i>Calibration Date</i>	<i>Due Date</i>
NewBorn	032	ATD	NA	NA

<i>Instrument</i>	<i>Serial Number</i>	<i>Certification Test</i>	<i>Calibration Date</i>	<i>Due Date</i>
12 Month CRABI	85	ATD	2/11/2019	7/07/2019
<i>Instrument</i>	<i>Serial Number</i>	<i>Certification Test</i>	<i>Calibration Date</i>	<i>Due Date</i>
Head X Accelerometer Endevco 7264	AC-P83422	ATD	6/14/2019	12/14/2019
Head Y Accelerometer Endevco 7264	AC-P84349	ATD	6/14/2019	12/14/2019
Head Z Accelerometer Endevco 7264	AC-P82321	ATD	6/14/2019	12/14/2019
Chest X Accelerometer Endevco 7264	AC-P74971	ATD	6/14/2019	12/14/2019
Chest Y Accelerometer Endevco 7264	AC-P74780	ATD	6/14/2019	12/14/2019
Chest Z Accelerometer Endevco 7264	AC-P52158	ATD	6/14/2019	12/14/2019

Bench Foam Calibrations

Test #	Calibration	Bottom 2"	Bottom 4"	Back 2"	Back 4"
FM06-19-97A	Pre	C274-2x20 51.3 lbs	T61-4x20 22.6 lbs	H134-2x24 52.7 lbs	S36-4x24 26.4 lbs
	Post	C274-2x20 51.6 lbs	T61-4x20 22.8 lbs	H134-2x24 53.6 lbs	S36-4x24 26.9 lbs
FM06-19-97B	Pre	C273-2x20 48.3 lbs	T70-4x20 21.2 lbs	H141-2x24 53.5 lbs	S21-4x24 25.4 lbs
	Post	C273-2x20 49.9 lbs	T70-4x20 21.4 lbs	H141-2x24 52.9 lbs	S21-4x24 24.8 lbs
	Pre				
	Post				
	Pre				
	Post				
	Pre				
	Post				
	Pre				
	Post				

Section 9 PHOTOGRAPHS

Sled Photos

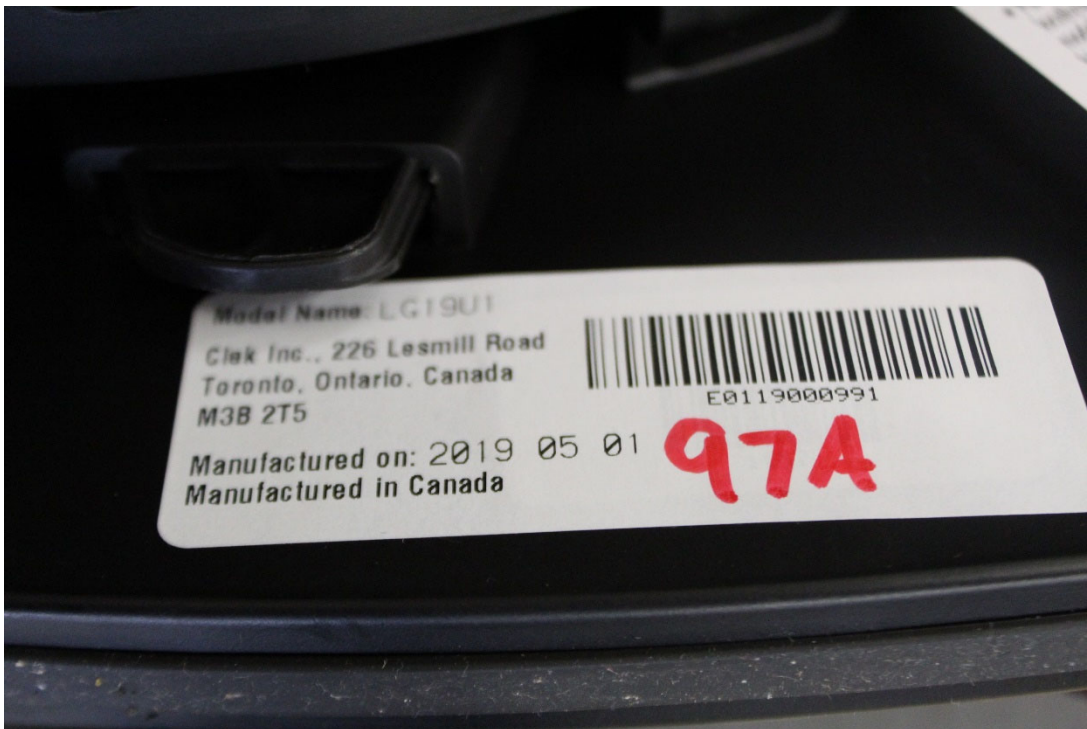
Sled Buck – Standard Bench Seat and Configuration 213-CAL-19-026	
026-LG19U1-01-12CRBLFR	026-LG19U1-02-NINRBLFR



Dynamic Test Photos

026-LG19U1-01-12CRBLFR
Pre Test

213-CAL-19-026
FM06-19-97A

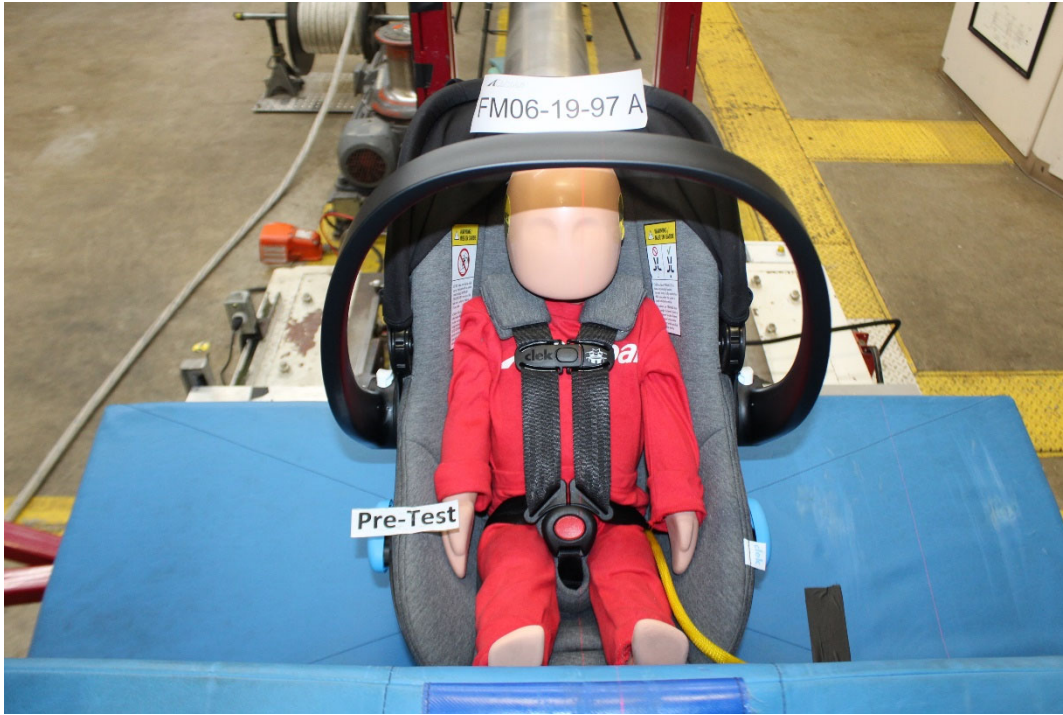


026-LG19U1-01-12CRBLFR Pre Test	213-CAL-19-026 FM06-19-97A
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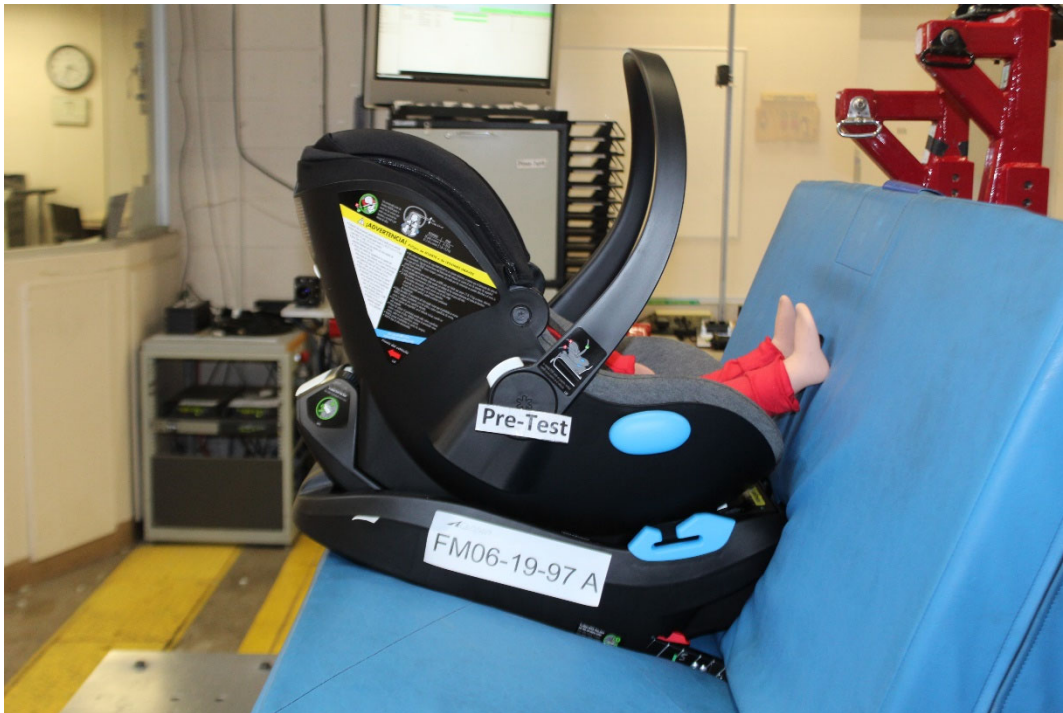
026-LG19U1-01-12CRBLFR
Pre Test

213-CAL-19-026
FM06-19-97A



026-LG19U1-01-12CRBLFR
Pre Test

213-CAL-19-026
FM06-19-97A



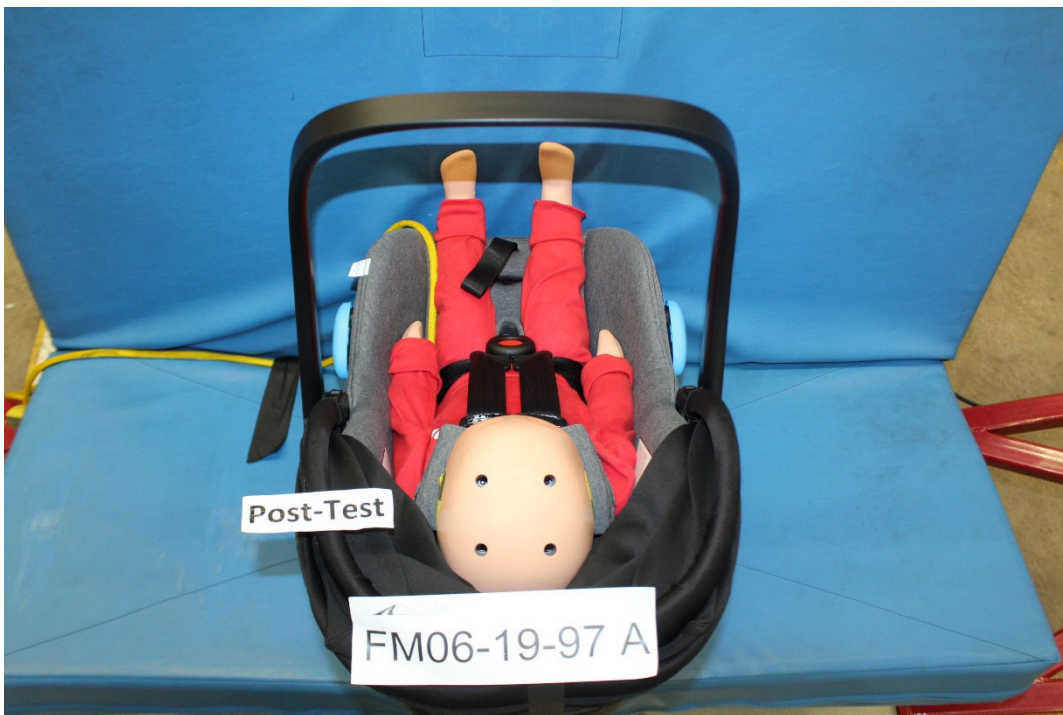
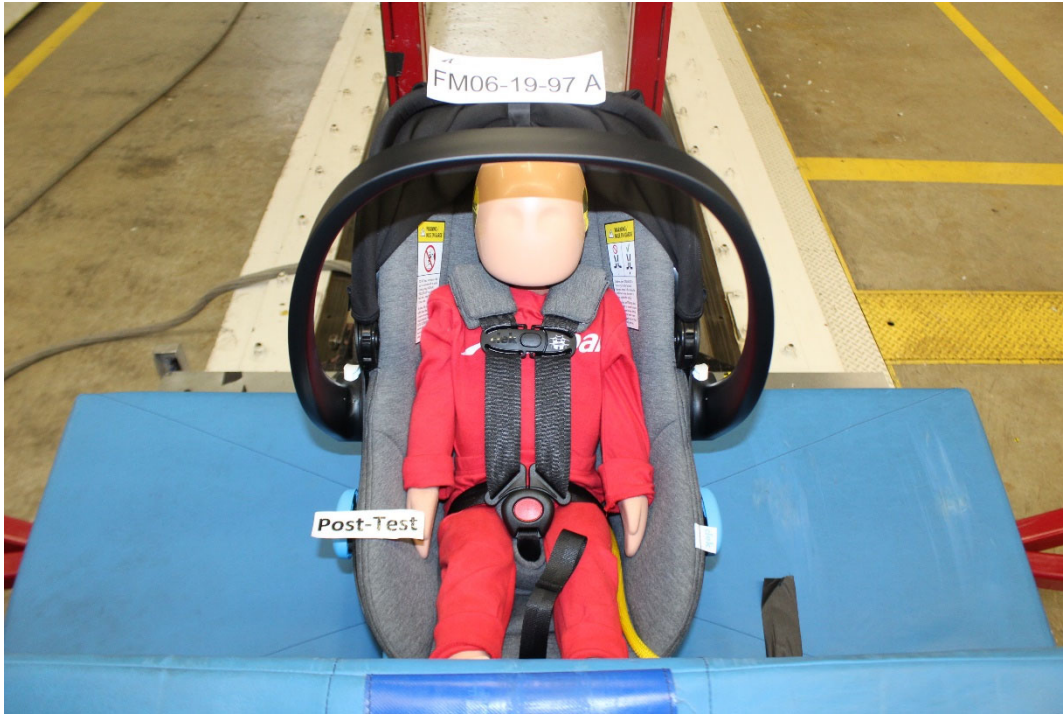
026-LG19U1-01-12CRBLFR
Post Test

213-CAL-19-026
FM06-19-97A



026-LG19U1-01-12CRBLFR
Post Test

213-CAL-19-026
FM06-19-97A



026-LG19U1-01-12CRBLFR
Post Test

213-CAL-19-026
FM06-19-97A



Dynamic Test Photos

026-LG19U1-02-NINRBLFR
Pre Test

213-CAL-19-026
FM06-19-97B



026-LG19U1-02-NINRBLFR
Pre Test

213-CAL-19-026
FM06-19-97B



026-LG19U1-02-NINRBLFR
Pre Test

213-CAL-19-026
FM06-19-97B



026-LG19U1-02-NINRBLFR
Pre Test

213-CAL-19-026
FM06-19-97B



026-LG19U1-02-NINRBLFR
Post Test

213-CAL-19-026
FM06-19-97B



026-LG19U1-02-NINRBLFR
Post Test

213-CAL-19-026
FM06-19-97B



026-LG19U1-01-NINRBLFR
Post Test

213-CAL-19-026
FM06-19-97B



Inversion Test Photos

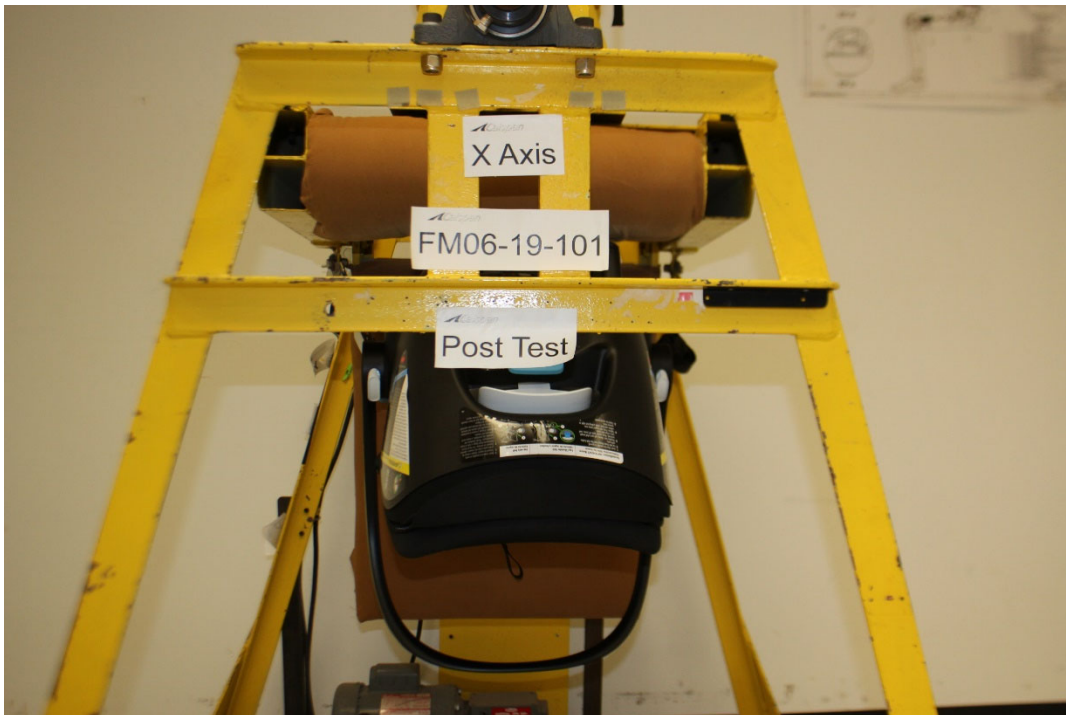
026-LG19U1-INV01- NINRN2FN
Pre Test X-Axis

213-CAL-19-026
FM06-19-101



026-LG19U1-INV01- NINRN2FN
Post Test X-Axis

213-CAL-19-026
FM06-19-101



Inversion Test Photos

026-LG19U1-INV01- NINRN2FN
Pre Test Y-Axis

213-CAL-19-026
FM06-19-101



026-LG19U1-INV01- NINRN2FN
Post Test Y-Axis

213-CAL-19-026
FM06-19-101Post



Inversion Test Photos

026-LG19U1-INV02-12CRN2FN
Pre Test X-Axis

213-CAL-19-026
FM06-19-102



026-LG19U1-INV02-12CRN2FN
Post Test X-Axis

213-CAL-19-026
FM06-19-102



Inversion Test Photos

026-LG19U1-INV02-12CRN2FN
Pre Test X-Axis

213-CAL-19-026
FM06-19-102



026-LG19U1-INV02-12CRN2FN
Post Test Y-Axis

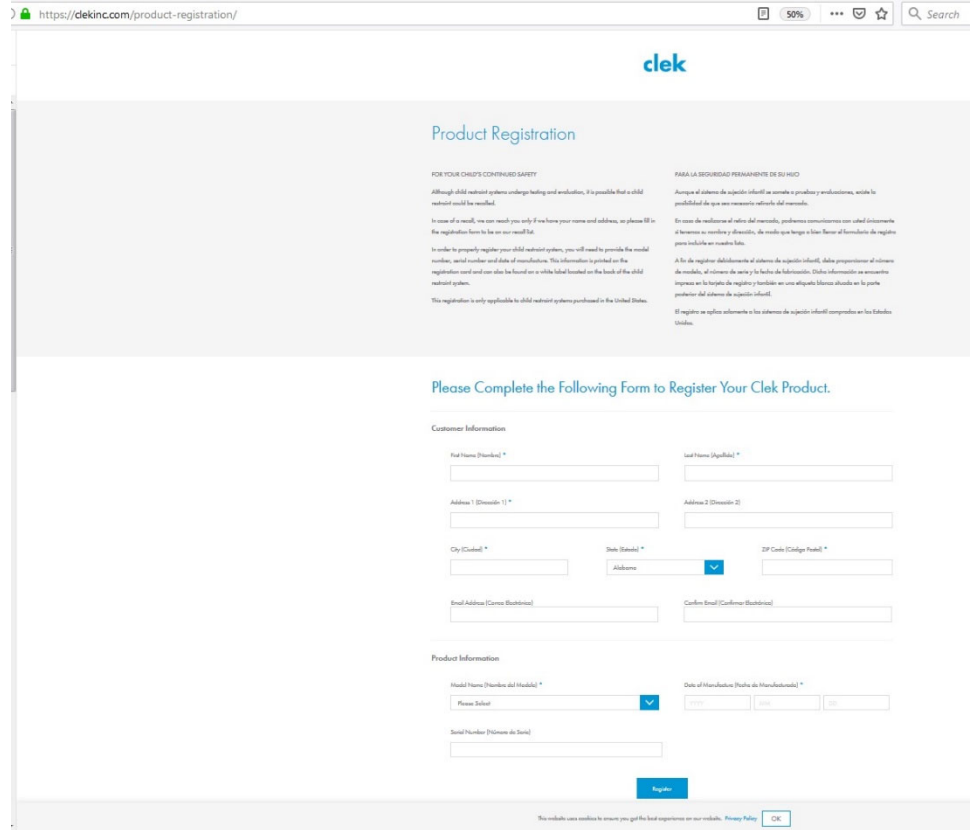
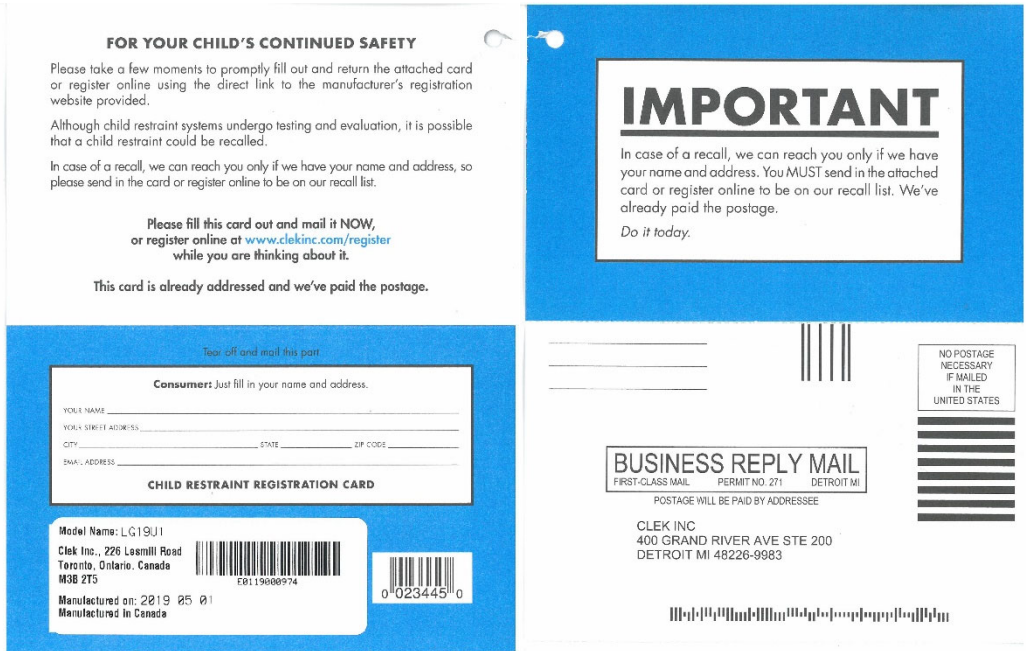
213-CAL-19-026
FM06-19-102



Inspection Photos

Registration
213-CAL-19-026

026-LG19U1-01-12CRBLFR 026-LG19U1-02-NINRBLFR



Label Photos

Labels	
213-CAL-19-026	
026-LG19U1-01-12CRBLFR	026-LG19U1-02-NINRBLFR

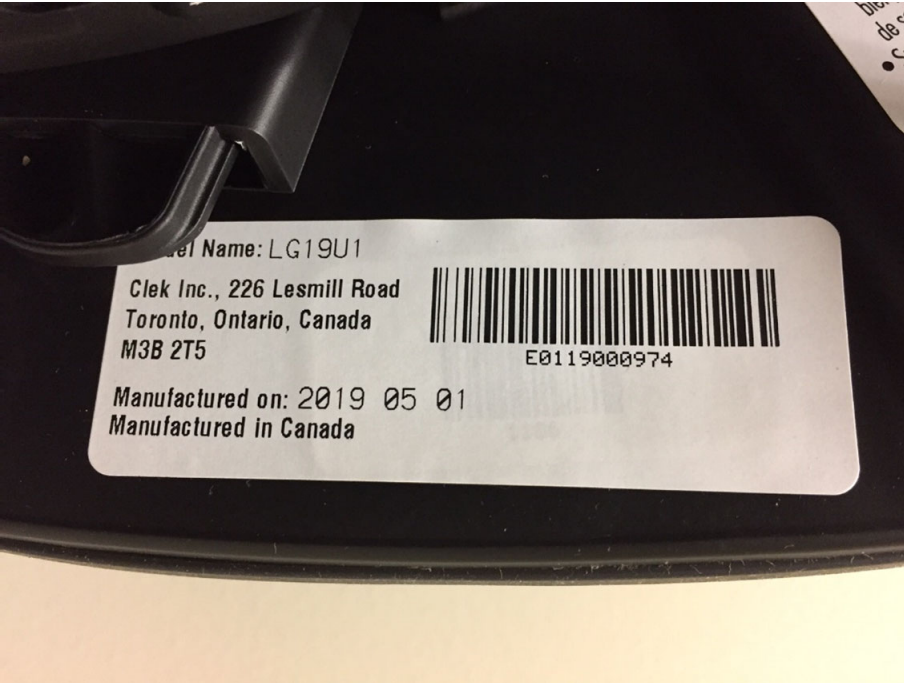
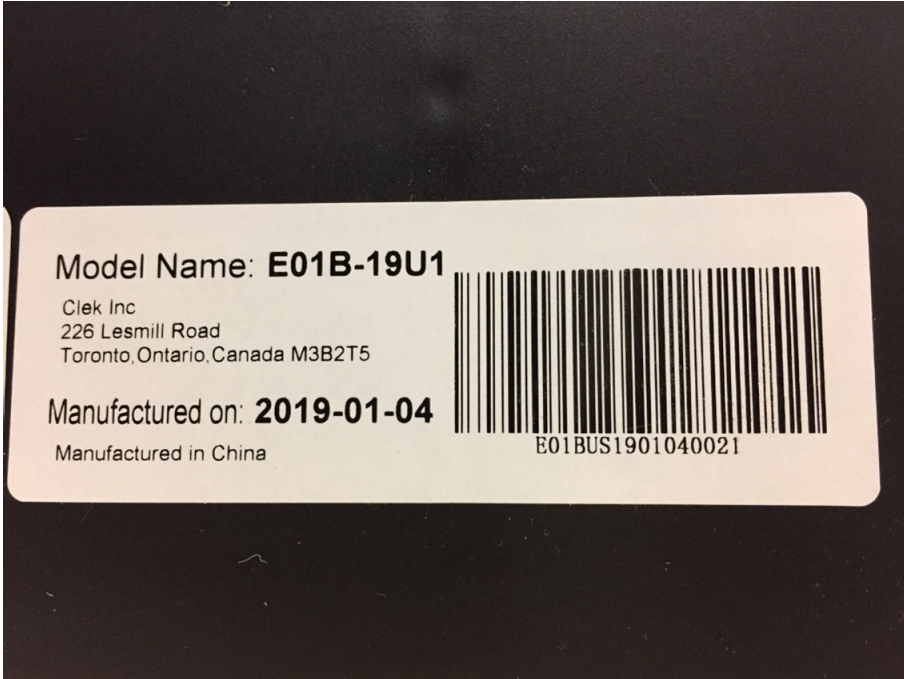


Labels 213-CAL-19-026	
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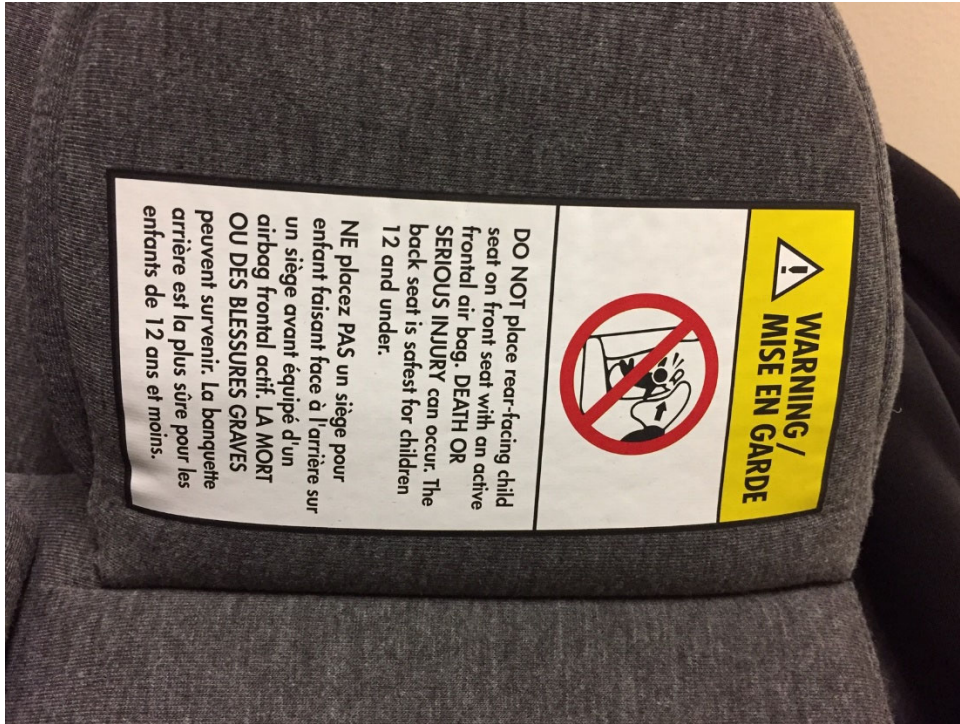


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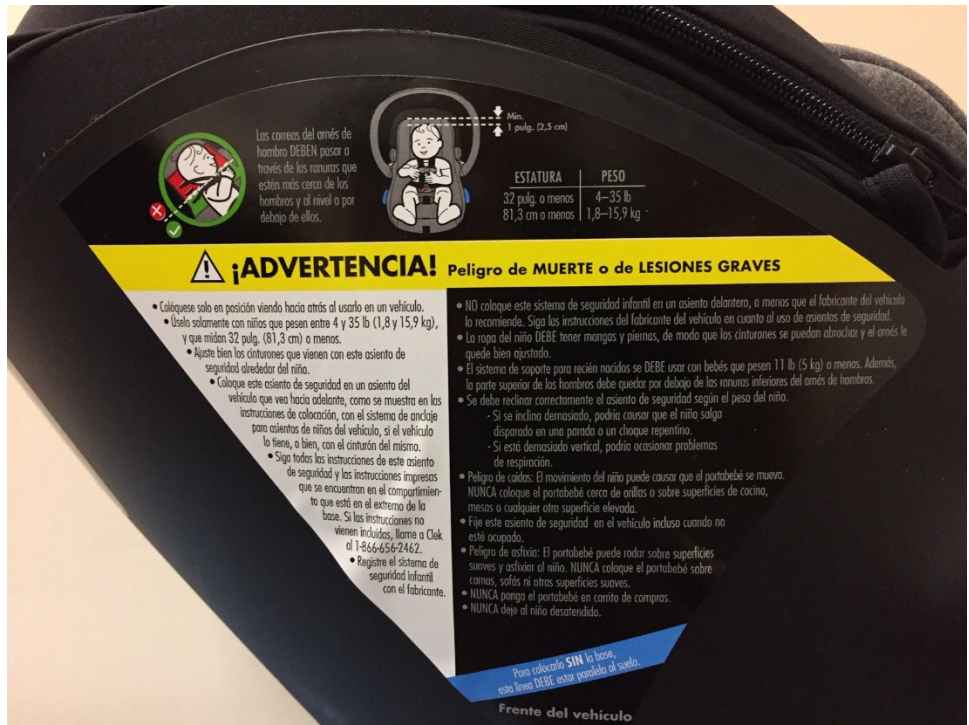
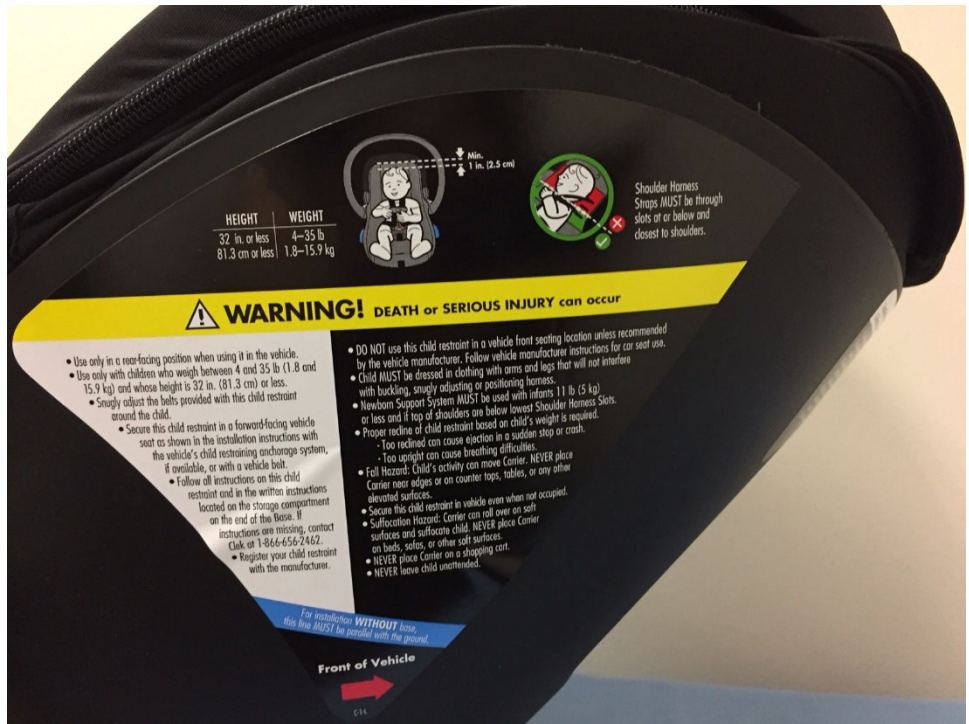


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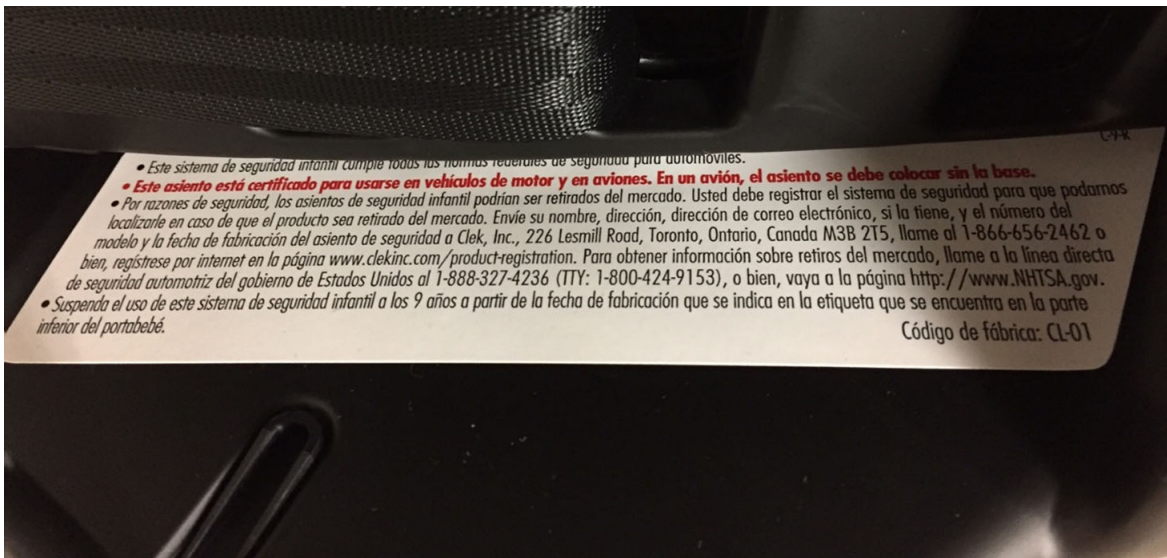


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026-LG19U1-01-12CRBLFR 026-LG19U1-02-NINRBLFR



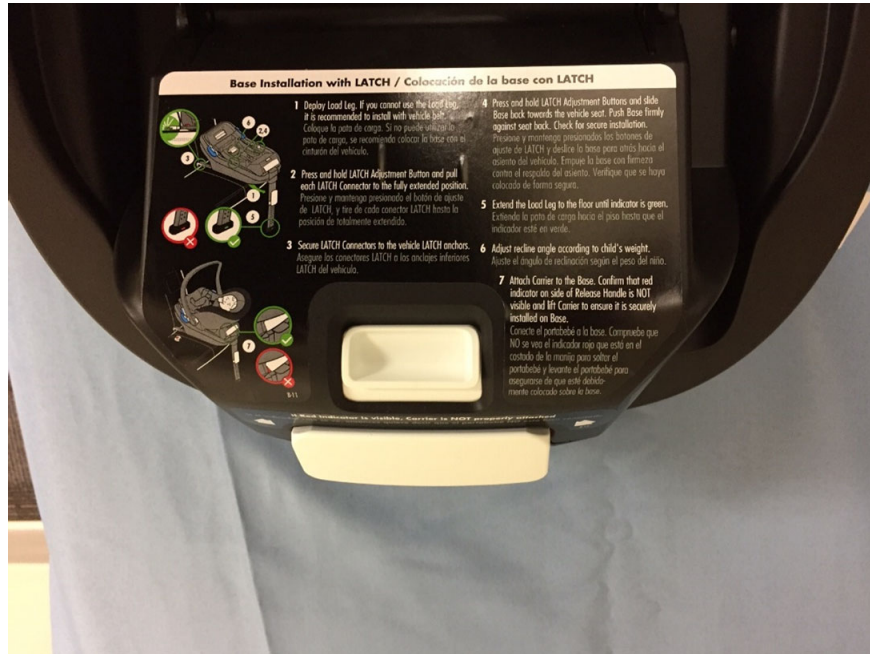
<p>Labels 213-CAL-19-026</p>	
<p>026-LG19U1-01-12CRBLFR</p>	<p>026-LG19U1-02-NINRBLFR</p>



• Este sistema de seguridad infantil cumple todas las normas federales de seguridad para automóviles.
 • **Este asiento está certificado para usarse en vehículos de motor y en aviones. En un avión, el asiento se debe colocar sin la base.**
 • Por razones de seguridad, los asientos de seguridad infantil podrían ser retirados del mercado. Usted debe registrar el sistema de seguridad para que podamos localizarlo en caso de que el producto sea retirado del mercado. Envíe su nombre, dirección, dirección de correo electrónico, si la tiene, y el número del modelo y la fecha de fabricación del asiento de seguridad a Clek, Inc., 226 Lesmill Road, Toronto, Ontario, Canada M3B 2T5, llame al 1-866-656-2462 o bien, regístrese por internet en la página www.clekinc.com/product-registration. Para obtener información sobre retiros del mercado, llame a la línea directa de seguridad automotriz del gobierno de Estados Unidos al 1-888-327-4236 (TTY: 1-800-424-9153), o bien, vaya a la página <http://www.NHTSA.gov>.
 • Suspenda el uso de este sistema de seguridad infantil a los 9 años a partir de la fecha de fabricación que se indica en la etiqueta que se encuentra en la parte inferior del portabebé.
 Código de fábrica: CL-01

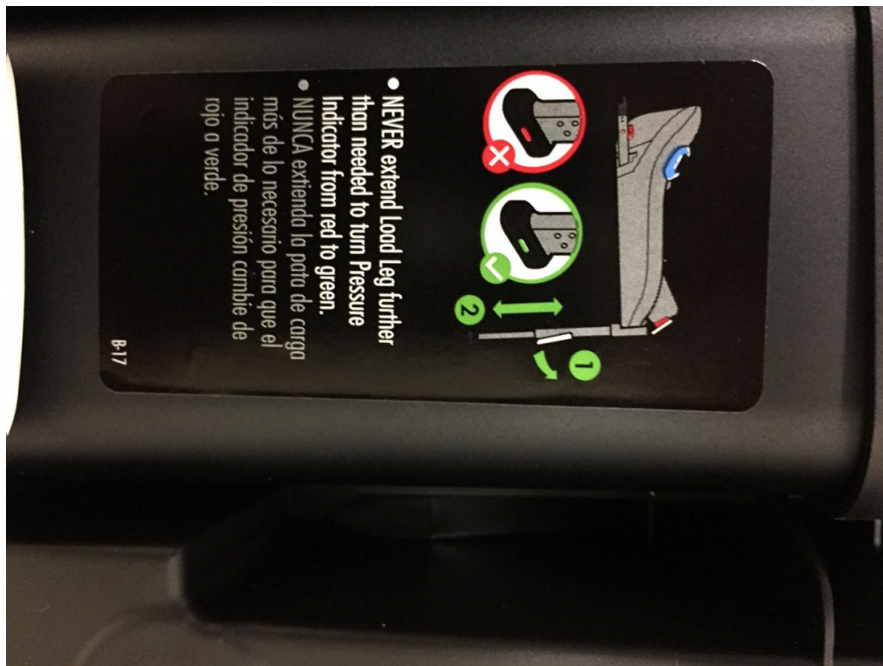
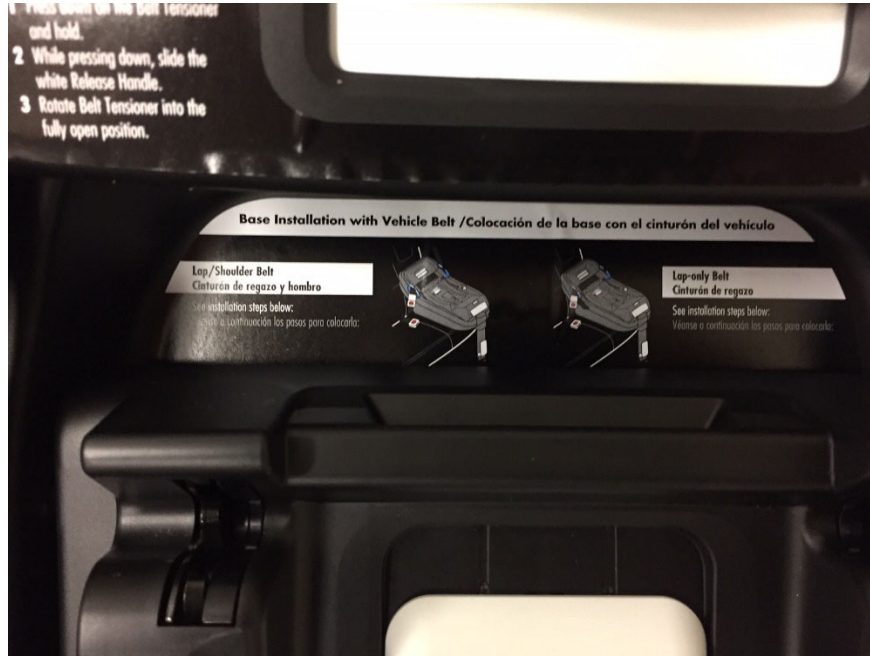
Labels
213-CAL-19-026

026-LG19U1-01-12CRBLFR 026-LG19U1-02-NINRBLFR



Labels
213-CAL-19-026

026-LG19U1-01-12CRBLFR 026-LG19U1-02-NINRBLFR



Labels		
213-CAL-19-026		
026-LG19U1-01-12CRBLFR		026-LG19U1-02-NINRBLFR

