

# LATCH 2019:

## Vehicle Brandwide Information in the *LATCH Manual* Bullets

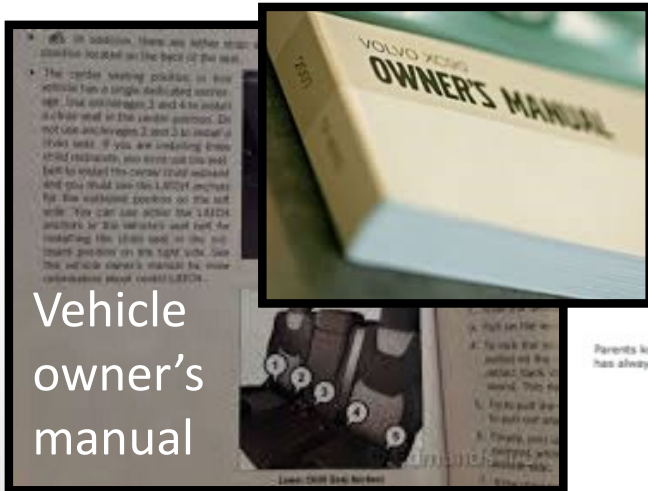
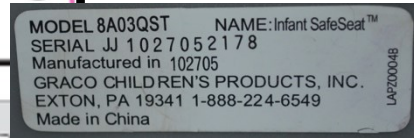
Presented by Denise Donaldson,  
Owner, Safe Ride News Publications

# Objectives

- Understand what LM vehicle “bullets” are, where they are, and why they exist.
- Learn where to find bullets, by topic.
- Explore specific LM bullets and related information.
- Raise awareness of other available resources.

# Savvy CPSTs Use These Resources!

## CR instructions and labels

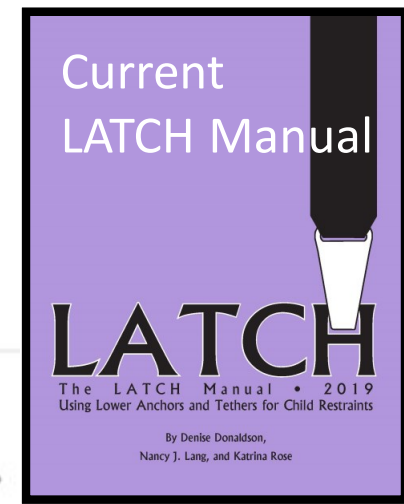


Vehicle owner's manual



Parents know that finding the right child seat is an important part of protecting our children on the road. And Nissan has always recognized that the safety of all of our passengers is at the core of everything we do.

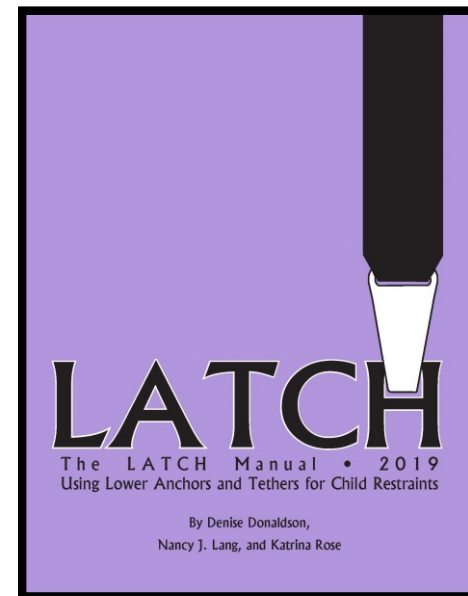
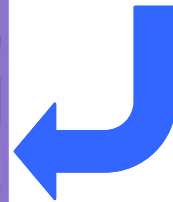
Manufacturer websites, including posted videos



# Use only the current edition!



Does your kit look like this? YIKES!



The 2019 edition is thoroughly revised and includes many updates to older editions.

# Sections of the LATCH Manual

## Glossary

**Chapter 1** — Introduction

**Chapters 2/3**— Lower anchorage

**Chapters 4/5**— Tether anchorage

**Chapter 6** — Retrofitting TAs (w/ supplement)

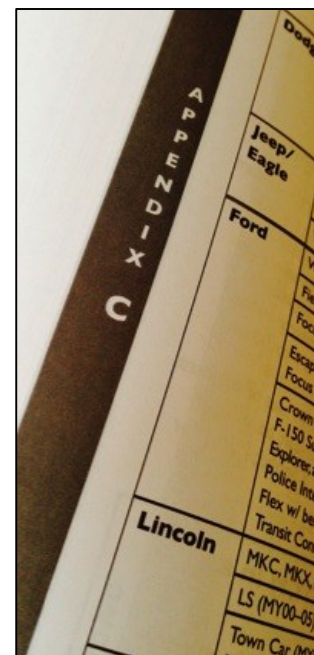
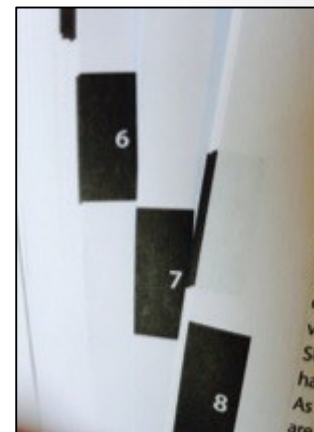
**Chapter 7** — Rear-facing tethering

**Chapter 8** — Details of standards

**App. A: Car Seats and LATCH**

**App. B: Vehicles and LATCH**

**App. C: LATCH in Center Positions**



# What is a vehicle “bullet?”

## Nissan

U.S. 800-647-7261 [www.nissanusa.com](http://www.nissanusa.com)

Canada 800-387-0122 [www.nissan.ca](http://www.nissan.ca)

**Bullet Section:** Follow the bulleted guidance here for all models of this brand (with any exceptions noted). Also, check model-specific details in the tables that follow.

- **Maximum child weight—LATCH system (CRs without a weight-limit label):** -MY14 and newer: 65 pounds (29.5 kg) minus the CR weight. See Appendix A for the weight of the CR being installed. If the child-plus-CR weight is greater than 65 lbs. (29.5 kg), use a seat belt (and tether, if appropriate) to install the CR.
- **-MY13 and older:** Follow weight given by the CR manufacturer.
- **Maximum child weight—factory-installed or retrofitted TA when used with the seat belt:** Follow weight given by the CR manufacturer.
- **Shoulder belt entanglement:** Nissan has not provided steps to reduce this risk.
- **Advanced air bag (AAB) suppression system:** AAB technology on the passenger side of some models CAN be affected by pressure/force against the front seatback or upward from under the front seat. Check the front passenger air bag status light. Owner's manuals for equipped vehicles warn against pushing/pulling on the seatback pocket or placing loads heavier than 2.2 lbs. (1kg) in the seatback pocket or on the seatback or headrest. Also, do not place items behind or under the passenger seat that press into the seat.
- **Tethering CRs to a seat belt:** MAY NOT use a seat belt from the row behind a CR as a TA. (However, see MY97–99 Quest notes for an exception.)
- **Center position installation using LAs with nonstandard spacing:** MAY NOT borrow the inner LAs from standard outboard LATCH positions to install a CR in the center. Use the seat belt (and tether, if appropriate) instead.
- **Head restraints (HRs): Nonadjustable HRs:** Route a 2-point (single-strap) tether over the center of the HR and a 3-point (V-shaped) tether around either side. **Adjustable HRs:** HR may be moved upward (and, if removable, removed and securely stowed) to accommodate a CR. Replace a removed HR when the CR is uninstalled. Some models have specific HR information in the notes that follow.
- **Use of LATCH with belt-positioning boosters:** MAY attach a BPB to LAs and/or TA if doing so does not interfere with proper seat belt use and is allowed by the CR manufacturer.
- **Cargo covers:** DO NOT allow cargo covers or items in the cargo area to contact attached tethers. If the cover interferes with the tether, remove and store the cover while the tether is being used.
- **Seatback Angle:** Some owner's manuals state to recline the seatback to access LAs. After attaching the CR's LA connectors, put seatback in its upright position to complete CR installation.
- **Inspection after a crash:** After a crash, LATCH components should be inspected for damage; see dealer to repair or replace parts.
- **Tether anchor retrofit:** Some pre-MY00 vehicles, including those listed with a TA point noted, may be retrofitted with TAs. See Chapter 6 for brand-/model-specific details from Nissan, as well as general advice for retrofitting vehicles with TAs.
- **Snug Kids™ safety seat fit guide:** Nissan lists CR models that fit well in each of its current models at [www.nissanusa.com/snugkids](http://www.nissanusa.com/snugkids). In Canada, go to [www.nissan.ca/en/owners/my-nissan/child-safety](http://www.nissan.ca/en/owners/my-nissan/child-safety). If the harness weight limit for the CR mode is 40 pounds or less, only LATCH installation is checked in vehicle positions that have LATCH.
- **Seating position limitations:** Some Nissan owner's manuals and Snug Kids guides recommend against certain CR installations in certain seating positions or rows. However, although installation in these situations might be relatively difficult or impossible (depending on the CR), Nissan will allow the installation if it has been checked and approved by a CPST. A note in the model listings that follow indicates when such recommendations are stated in a model's Snug Kids guide or owner's manual; be sure to note details like CR mode and seating position/row.

**KEY:** LATCH—Factory-installed lower & tether anchors TA—Factory-installed tether anchor LA—Lower anchor OB—Outboard MY—Model year CR—Child restraint None—No LATCH available (factory-installed/retrofit) TA point—Designated retrofit TA location OM—Owner's manual N/A—No vehicle seating position here

### Vehicles with one or two rows—Nissan

MODEL	BODY	YEAR	SECOND ROW		NOTES
			CENTER	OUTBOARD	
200 SX	2-door	95-99	TA point	(2) TA points	(3) TA points are 8-mm weld nuts on rear filler panel; see "Tether anchor retrofit" bullet.
240SX (S13)	Fastback & Coupe	89-98	N/A	(2) TA points	(2) TA points are 8-mm weld nuts on cargo floor; see "Tether anchor retrofit" bullet.
300ZX (Z32)	2+2 Coupe	91-96	N/A	(2) TA points	(2) TA points are 8-mm weld nuts on cargo floor; see "Tether anchor retrofit" bullet.
350Z	Sport Coupe	03-Mid-06	N/A	N/A	Front Seat: TA on luggage area floor. Passenger-Side Air Bag: No on-off switch; do NOT transport children 12 and under unless an air bag on-off switch is installed and set to "off."
		Mid-06 to			Front Seat: TA on luggage area floor. Passenger-Side Air Bag: No on-off switch. Rear-facing CRs MAY NOT be installed; forward-facing CRs may be installed using a seat belt and tether with seat moved to the

- In Appendix B.
- Information bulleted at the beginning of each vehicle brand entry.
- Applies to all models of a brand (with any exceptions noted).

# Why are bullets needed?

- **Pragmatic reasons:**
  - Simply too wordy if repeated!
  - Think of them as an extension of a vehicle model's notes section.
- **Informational reasons:**
  - Topics not found in OMs
  - Topics in new but not older OMs

# Anchor weight limit bullets

**Nissan**

U.S. 800-647-7261 [www.nissanusa.com](http://www.nissanusa.com) Canada 800-387-0122 [www.nissan.ca](http://www.nissan.ca)

**Bullet Section:** Follow the bulleted guidance here for all models of this brand (with any exceptions noted). Also, check model-specific details in the tables that follow.

Center position installation using LAs with nonstandard spacing: MAY NOT borrow the inner LAs from standard outboard LATCH positions to install a CR in the center. Use the seat belt (and tether, if appropriate) instead.

- **Head restraint (HRs):** Nonadjustable HRs: Roll over protection (ROPS) (single-strap) tether over the HR and a 3-point (V-shaped) tether over the side. Adjustable HRs: HR tethers should be stowed (and, if removable, securely stowed) to avoid contact with the HR. Replace a removed HR with a new one. See the notes that follow.
- **Shoulder belt entanglement:** Nissan has not provided steps to reduce this risk.
- **Advanced air bag (AAB) suppression system:** AAB technology on the passenger side of some models CAN be affected by pressure/force against the front seatback or upward from under the front seat. Check the front passenger air bag status light. Owner's manuals for equipped vehicles warn against pushing/pulling on the seatback pocket or placing loads heavier than 2.2 lbs. (1kg) in the seatback pocket or on the seatback or headrest. Also, do not place items behind or under the passenger seat that press into the seat.
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- **Seating position limitations:** Some Nissan owner's manuals and Snug Kids guides recommend against certain CR installations in certain seating positions or rows. However, although installation in these situations might be relatively difficult or impossible (depending on the CR), Nissan will allow the installation if it has been checked and approved by a CPST. A note in the model listings that follow indicates when such recommendations are stated in a model's Snug Kids guide or owner's manual.
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**KEY:** LATCH—Factory-installed lower & tether anchors TA—Factory-installed tether anchors None—No LATCH available (factory-installed/retrofitted) TA p

**Vehicles with one or two rows—Nissan**

MODEL	BODY	YEAR	SECOND ROW	
			CENTER	OUTBOARD
200 SX	2-door	95-99	TA point	(2)
240SX (S13)	Fastback & Coupe	89-98	N/A	(2)
300ZX (Z32)	2+2 Coupe	91-96	N/A	(2)
350Z	Sport Coupe	03-Mid-06	N/A	N/A
		Mid-06 to		

• **Maximum child weight—LATCH system (CRs without a weight-limit label):**

- MY14 and newer: 65 pounds (29.5 kg) minus the CR weight. See Appendix A for the weight of the CR being installed. If the child-plus-CR weight is greater than 65 lbs. (29.5 kg), use a seat belt (and tether, if appropriate) to install the CR.
- MY13 and older: Follow weight given by the CR manufacturer.

• **Maximum child weight—factory-installed or retrofitted TA when used with the seat belt:** Follow weight given by the CR manufacturer.

- Always in the top left-hand corner.
- Three anchor types:
  - Lower
  - Factory TA
  - Retrofit TA
- Often, not in owner's manual



# Remember...

When checking the vehicle anchor weight limit bullet:

- **Maximum child weight—LATCH system (CRs without a weight-limit label):**
  - MY14 and newer: 65 pounds (29.5 kg) minus the CR weight. See Appendix A for the weight of the CR being installed. If the child-plus-CR weight is greater than 65 lbs. (29.5 kg), use a seat belt (and tether, if appropriate) to install the CR.
  - MY13 and older: Follow weight given by the CR manufacturer.
- **Maximum child weight—factory-installed or retrofitted TA when used with the seat belt:** Follow weight given by the CR manufacturer.



Also check CR instructions

- Labels



- CR maker's Appendix A entry

■ **Maximum child weight for LA attachment use:**

- CRs made February 2014 and after:

LA attachment weight limits began to appear on Evenflo models in February 2014. By February 2015, the labels were moved to a position near the LATCH diagram, and the weight limits were revised (per NHTSA's amended final rule). Follow the limit that appears on the CR label:

	Weight on label (2/14 – 2/15)	Weight on label (After 2/15)
<b>EveryStage All-in-One</b>	n/a	40 lbs.
<b>Evolve</b>	n/a	45 lbs.
<b>Momentum</b>	40 lbs.	50 lbs.
<b>SafeMax 3-in-1 Comb.</b>	n/a	45 lbs.
<b>SafeMax All-in-One</b>	n/a	45 lbs.
<b>SecureKid LX/DLX</b>	50 lbs.	50 lbs.
<b>Sonus 65</b>	n/a	50 lbs.
<b>Stratos</b>	n/a	50 lbs.
<b>SureRide Select/LX/DLX</b>	50 lbs.	55 lbs.
<b>Symphony All-in-One</b>	40 lbs.	45 lbs.
<b>Titan 65</b>	50 lbs.	55 lbs.
<b>Transitions</b>	n/a	45 lbs.
<b>Triumph Select/LX/DLX</b>	45 lbs.	50 lbs.

# Other LM resources: Table B1

Brands      LAs      TAs      TAs

Factory      Retrofit

B-2

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**Table B1: Vehicle Anchor Weight Limits\***

Also check the car seat manufacturer's LATCH weight limit guidance. See Appendix A.

Vehicle brand	Child weight limit for TETHER ANCHORS (in lbs.)	
	Child weight limit (in lbs.) for using LATCH SYSTEM <small>(Use this limit only if CR was made before 2/2014 and locks NHTSA-required limit.)</small>	Child weight limit for TETHER ANCHORS (in lbs.) Factory-installed TA used with seat belt installation      Retrofit TA used with seat belt installation
Acura	Follow CR instructions. (Don't exceed a combined weight of 65 pounds.)	Follow CR instructions.
Alfa Romeo	Not stated; assume 65 minus CR weight.	Follow CR instructions.
Audi	65 minus CR weight.	Follow CR instructions.
BMW	65 minus CR weight.	Follow CR instructions.
Buick	65 minus CR weight.	65 minus CR weight.
Cadillac	65 minus CR weight.	65 minus CR weight.
Chevrolet	65 minus CR weight.	65 minus CR weight.
Chrysler	65 minus CR weight.	65 minus CR weight.
Coda	Follow CR instructions.	Follow CR instructions.
Daewoo	65 minus CR weight.	65 minus CR weight.
Dodge	65 minus CR weight.	65 minus CR weight.
Eagle	N/A; no vehicles have LAs.	N/A; no vehicles have factory-installed TAs.
Ferrari	Follow CR instructions.	Follow CR instructions.
Fiat	65 minus CR weight.	Follow CR instructions.
Ford	65 minus CR weight. (All model years; retroactive change.)	Follow CR instructions.
Genesis	65 minus CR weight.	65 minus CR weight.
Geo	65 minus CR weight.	65 minus CR weight.
GMC	65 minus CR weight.	65 minus CR weight.
Honda	Follow CR instructions. (Don't exceed a combined weight of 65 pounds.)	Follow CR instructions.
Hummer	65 minus CR weight.	65 minus CR weight.
Hyundai	65 minus CR weight.	65 minus CR weight.
Infiniti	MY13 and older=Follow CR instructions. MY14 and newer=65 minus CR weight.	Follow CR instructions.
Isuzu	Not stated; assume 65 minus CR weight.	Not stated; assume 65 minus CR weight.
Jaguar	Follow CR instructions.	Follow CR instructions.
Jeep	65 minus CR weight.	65 minus CR weight.
Kia	65 minus CR weight.	65 minus CR weight.
Land Rover	Follow CR instructions.	Follow CR instructions.
Lexus	Follow CR instructions.	Not stated; assume 65 minus CR weight.
Lincoln	65 minus CR weight. (All model years; retroactive change.)	Follow CR instructions.
Maserati	Follow CR instructions.	Not stated; assume 65 minus CR weight.
Mazda	Not stated; assume 65 minus CR weight.	Not stated; assume 65 minus CR weight.
Mercedes-Benz	65 minus CR weight.	Follow CR instructions.

Appendix B • Vehicle Information About LATCH

B-3

**Table B1, cont.: Vehicle Anchor Weight Limits\***

Also check the car seat manufacturer's LATCH weight limit guidance. See Appendix A.

Vehicle brand	Child weight limit for TETHER ANCHORS (in lbs.)	
	Child weight limit (in lbs.) for using LATCH SYSTEM <small>(Use this limit only if CR was made before 2/2014 and locks NHTSA-required limit.)</small>	Child weight limit for TETHER ANCHORS (in lbs.) Factory-installed TA used with seat belt installation      Retrofit TA used with seat belt installation
Mercury	48	Follow CR instructions.
MINI	65 minus CR weight.	Follow CR instructions.
Mitsubishi	65 minus CR weight.	65 minus CR weight.
Nissan	MY13 and older=Follow CR instructions. MY14 and newer=65 minus CR weight.	Follow CR instructions.
Oldsmobile	65 minus CR weight.	65 minus CR weight.
Plymouth	N/A; no vehicles have LAs.	65 minus CR weight.
Pontiac	65 minus CR weight.	65 minus CR weight.
Porsche	65 minus CR weight.	65 minus CR weight.
Ram (Dodge Ram, see Dodge)	65 minus CR weight.	Follow CR instructions.
Rollis-Royce	65 minus CR weight.	Follow CR instructions.
Saab	48	40
Saturn	65 minus CR weight.	65 minus CR weight.
Scion	Follow CR instructions.	Follow CR instructions.
smart	N/A; no vehicles have LAs.	Follow CR instructions.
Subaru	Follow CR instructions.	Follow CR instructions.
Suzuki	Not stated; assume 65 minus CR weight. (Except Equator; follow Nissan.)	Not stated; assume 65 minus CR weight. (Except Equator; follow Nissan.)
Tesla	65 minus CR weight.	N/A
Toyota	Follow CR instructions.	Follow CR instructions.
Volkswagen	65 minus CR weight.	Follow CR instructions.
Volvo	Follow CR instructions.	Follow CR instructions.

\* Changes from prior LATCH Manuals and/or owner's manuals are retroactive, unless noted. Be sure to also review the bulleted notes at the beginning of each brand entry.

**Child Weight Limit Cheat Sheet**

Use this guide to determine the vehicle manufacturer's child weight limit if stated above as "65 minus CR weight."  
Remember: Simply follow the LA attachment limit provided by the CR manufacturer if the CR was made since February 2014.

- Look up the weight of the CR at the end of the manufacturer's entry in Appendix A.
- Find that CR weight below. The CR weight points to the vehicle's maximum child weight for using anchors only if the manufacturer states the child weight limit as "65 pounds minus the CR weight." (See table, above.)

8-lb. CR → 57-lb. child	15-lb. CR → 50-lb. child	22-lb. CR → 43-lb. child	29-lb. CR → 36-lb. child
9-lb. CR → 56-lb. child	16-lb. CR → 49-lb. child	23-lb. CR → 42-lb. child	30-lb. CR → 35-lb. child
10-lb. CR → 55-lb. child	17-lb. CR → 48-lb. child	24-lb. CR → 41-lb. child	31-lb. CR → 34-lb. child
11-lb. CR → 54-lb. child	18-lb. CR → 47-lb. child	25-lb. CR → 40-lb. child	32-lb. CR → 33-lb. child
12-lb. CR → 53-lb. child	19-lb. CR → 46-lb. child	26-lb. CR → 39-lb. child	33-lb. CR → 32-lb. child
13-lb. CR → 52-lb. child	20-lb. CR → 45-lb. child	27-lb. CR → 38-lb. child	34-lb. CR → 31-lb. child
14-lb. CR → 51-lb. child	21-lb. CR → 44-lb. child	28-lb. CR → 37-lb. child	35-lb. CR → 30-lb. child

Cheat sheet for subtracting from 65 pounds

# Other LM resources: CR weights

## ■ Appendix A:

Find these at the end of CR brand entries for manufacturers that have FF-only, convertible, all-in-one, and combination CRs

### Graco—CR Weights (in pounds)

Use this product weight, when needed, to calculate the child weight limit for LATCH. **Remember:** For CRs made since February 2014, simply follow the LA attachment limit provided by labels and manuals.

4Ever, 4Ever DLX	22.80
4Ever DLX Platinum	23.00
4Ever Extend2Fit	25.80
4Ever Extend2Fit Platinum	26.54
4Ever TrueShield	25.83
4Ever w/ Safety Surround	22.75
Argos 65 and 70	20.50
Argos 70 Elite	20.61
Argos 80 Elite	22.31
Atlas 65	13.00
Classic Ride	13.13
ComfortSport	12.00
Contender 65	15.20
Extend2Fit	18.50
Extend2Fit 3-in-1	20.50
Extend2Fit Platinum	19.82
Extend2Fit TrueShield	21.56
Extend2Fit w/ Safety Surround	19.95
Grows4Me	22.75
Head Wise (65 and 70)	20.30
Milestone	19.30
My Ride 65	15.80
My Ride 65 w/ Safety Surround	15.80
My Ride 70	15.80
Nautilus, Nautilus 65 LX	20.00
Nautilus 80 Elite	22.00
Nautilus SnugLock	22.07
Nautilus SnugLock DLX	22.77
Nautilus SnugLock LX	22.55
Nautilus w/ Safety Surround, Nautilus 65 DLX	20.60
Ready Ride 50	13.13
Recline N' Ride	28.60
Sequel 65	17.20
Sequence 65	17.20
Sequence 65 Platinum	18.32
Size4Me 65, MySize 65, Fit4Me 65	19.00
Size4Me 70/MySize 70	19.00
SlimFit 3-in-1	19.00
SlimFit Platinum	19.47
Smart Seat	33.00
Tranzitions	14.50
Tranzitions 65	15.20
Wayz	14.50

# Other LM resources: Ch. 3 and 5

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## Chapter 3, on lower anchorage

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### 2. Check the Weight Limit for Using the LA Attachment

In 2012, an amendment to FMVSS 213 (described in Chapter 8) mandated that a formula—65 pounds minus the CR weight—be used by CR manufacturers to set child weight limits for the use of LA attachments. The requirement is not retroactive, however, so it remains appropriate to follow whatever limit is stated in instructions at the time a CR was made. Today, therefore, the child weight limit for using a CR's LA attachment depends on whether the CR was made before or after key dates in 2014 and 2015, when aspects of the standard's requirements went into effect, as described below.

The following describes child weight limits for the use of LA attachments, as well as how to find them, based on CR manufacture dates during three critical time periods. Note: This pertains only to LA attachment. For tethers, see Chapter 5.

**Pre-February 2014 CRs**  
Only a few CRs made before the February 2014 deadline (exclusively units of new models that were launched slightly ahead of that date) have the child weight limit labeling now required by NHTSA; for these, follow the limit on the label.

For any other unexpired CR made before the compliance deadline:

- Consult the CR owner's manual to find its child weight limit for using the LA attachment (also provided in Appendix A).
- Determine the vehicle maker's LA weight limit. Some vehicle owner's manuals state the LA limit, but most do not. Appendix B provides LA weight limit information for each vehicle brand. If an LA weight limit is not stated, assume that the maximum child weight is 65 pounds minus the CR weight. (When the CR weight is needed to calculate a limit, find it in the CR's brand entry in Appendix A.)
- Compare the two limits. If different, most manufacturers say to follow the limit that is lower; confirm this in appendices A and B. Typically, CR manufacturers defer to vehicle manufacturers with respect to LATCH limits.

**CRs made February 2014 to February 2015**

February 27, 2014, was the date that manufacturers were required to begin using the mandated formula (65 pound minus the CR weight) to determine the child weight limit for using LA attachments. Importantly, the rule also requires the limit to appear on product labeling (as well as in the owner's manual). Prior to this, CR manufacturers set their own limits for LA attachment use and stated these limits in instructions, but not usually on labels. Therefore, February 2014 ushered in the current era, in which limits for LA attachment use are both uniformly derived and uniformly available in one easy-to-find place: the CR label.

On most CRs made during this period, find the limit stated in the same area on CR labels as other NHTSA warnings. Shortly before the 2014 deadline, NHTSA issued a ruling that gave CR manufacturers the option to round off limits derived using the mandated formula to the nearest number ending in 0 or 5. (The limit may be rounded upward for CRs used FF; for CRs used RF, the limit may only be rounded downward.) This spurred many manufacturers to revise these limits over the following months.

The LATCH Manual 2019

Vehicle Manufacturers' Report of Lower Anchor Weight Limits, as of 2019 <small>See Appendix B for details by brand.</small>	
Child weight limit for LAs (for use if CR label compliant label)	Number of vehicle brands
Follow CR instructions	14†
65 pounds minus CR weight *	31†
48 pounds	2
No information stated ††	4

\* Find CR weights in the manufacturers' entries in App. A.  
† Nissan and Infiniti are counted in both categories due to a nonretroactive change in 2014. See Appendix B for details.  
†† No information stated: The NHTSA certification curriculum says to assume a limit of 65 pounds (CR plus child weight).

**CRs since February 2015**

The February 2014 rule updating FMVSS 213 (described at the bottom of the prior column and in Chapter 8) also stated that, by February 27, 2015, the child weight limit for LA attachment use must appear near the LA attachment routing diagram (which was already a label requirement). So for CRs made on or after this date, look for the limit statement near this drawing. On a few CRs, the limit statement began appearing in this spot in 2014. If a limit for LA attachment use does not appear there, it means that the LA attachment may be used for installation at all harness-use weights.

**Remember:** An LA attachment use limit that's compliant with the current standard is the only limit that must be considered. NHTSA set this limit to ensure that installations using LA attachments are sufficiently strong in any scenario.



Labels on forward-facing CRs made after February 2015 must appear near a diagram like this and state, "Do not install by this method for a child weighing more than XX pounds."

The LATCH Manual 2019

### 2. Check Tether Weight Limits

NHTSA has determined that a seated weight limit on tethering is not necessary, based on research it conducted to support the most recent updates to FMVSS 213. If guidance is followed when using a seat belt for CR installation after an LA attachment's weight limit is met, tethering systems are sufficiently strong to be used as recommended in CR manufacturers' instructions. (Find NHTSA's LATCH strength research posted at [www.regulations.gov](http://www.regulations.gov); Docket No. NHTSA-2014-0026.) Therefore, do not apply regulated LA attachment limits to tethers. Neither CR nor vehicle manufacturers are required to state a weight maximum related to tethering. Nevertheless, some thought must be given to child weight when tethering, as discussed below.

#### Identifying CR tether weight limits

All CR manufacturers recommend the use of a tether at all forward-facing CR use weights. A CR's owner's manual (as well as Appendix A) states when a model's tether should or must be used. If the vehicle manufacturer states a TA weight limit, most CR manufacturers defer to that limit. See appendices A and B for brand- and model-specific details.

Some CRs may be used only if tethered, such as most models made for children with special needs and harness-vests that have tethers. A few conventional CRs require their use given certain conditions, such as child weight, installation method, etc. See Appendix A.

#### Identifying vehicle TA weight limits

Manufacturers rarely comment in vehicle owner's manuals on weight limits for tethering. However, most manufacturers do report information on this topic for the LATCH Manual, as noted in Appendix B for each brand. Most brands simply say to follow the CR manufacturer's instructions, but a few state TA weight limits (for all models or just specific model/model years). A few vehicle manufacturers have declined to make any statement at all about factory-installed TA weight limits (see the next section about what to do when no information is provided).

#### What to do when no information on TA weight limits is provided

As of 2015, Isuzu, Mazda, and Suzuki (and Mitsubishi for pre-MY 04 vehicles only) provide no statement on weight limits for factory-installed TAs. Seven brands make no statement about retrofitted TAs. When the vehicle manufacturer provides no information, the standardized CPS curriculum says to assume the TA weight limit is a combined child-plus-CR weight of 65 pounds.

## Chapter 5, on tether anchorage

Pages 40-41

Chapter 5 • Using Tethers

41

Vehicle Manufacturers' Report of Tether Anchor Weight Limits, as of 2019 <small>See Appendix B for details by brand.</small>		
Child weight limit for using TAs	If a factory-installed TA is used with a seat belt	If a retrofit TA is used with a seat belt
Follow CR maker's tethering instructions	30†	15
65 pounds minus CR weight	17*	18*
48 or 40 pounds	1**	1**
No information provided	3	7
N/A; no LATCH or TA kits	1	11

Notes:  
Refer to Appendix B for further details, including some model exceptions.  
\* Includes Chrysler/Dodge/Jeep, for which this applies to most, but not all, models. See App. B.  
\*\* Saab: 48-lb. limit for MY 05 and newer; 40-lb. limit pre-MY 05.  
† Includes Mitsubishi; pre-MY 05, no information provided.

Following this guidance from the CPS curriculum may put a CPST in the position of advising a caregiver to un tether a harnessed CR that's used by a heavier child, without having any supporting statement from the vehicle manufacturer—and against the recommendation of the CR manufacturer—so such advice should not be given lightly. First, be absolutely sure that the information about TA weight limits is not available in any resource: the owner's manual, the vehicle manufacturer's customer service line or website, Appendix B of this manual, or the LATCH Manual Updates page at [www.saferchildren.com](http://www.saferchildren.com). Also, read the CR owner's manual and Appendix A carefully to see if the model has features or techniques that could serve as alternatives to tethering and/or extend tether use (as is the case for some CRs made for children with special needs). Also, see page 50.

Finally, be sure the caregiver is fully educated for final decision making (see Chapter 8 for information on TA strength requirements). Sometimes it's helpful to call the CR and/or vehicle manufacturer for advice.

#### Weight limits for retrofit TAs

Many vehicle manufacturers state a lower weight limit for their retrofit TA kits, so check the listing in Appendix B if the TA was retrofitted into the vehicle. CR manufacturers do not distinguish between retrofitted and factory-installed TAs in CR tethering recommendations. In the past, some CR manufacturers offered generic TA retrofit kits, and when these are used, the stated upper weight limit is 40 pounds.

Using a stronger heavy-duty tether anchor (HDTA) can extend tether use (ranging from 105 to 140 pounds), as specified by the provider. HDTAs are typically offered by manufacturers of CRs for children with special needs, because these CRs must be tethered at all times. Unfortunately, installation of an HDTA is not simple. See Chapter 6 for more information on TA retrofitting.

#### Weight limits double if using the dual-tether or dual-hook method

Some CRs made for children with special needs feature two tether hooks (on either one or two straps) that can be attached to adjacent TAs so that crash forces are spread over two anchors. With these CRs, divide the child weight in half to estimate the amount of weight to apply toward each TA limit. See page 50 for more information and an illustration.

#### CR use and design affect TA loads

Lower anchors and tether anchors are not the same with respect to weight limits. Weight limits for LAs must take into account that, for some installations, the two bars might bear the entire load. A TA, on the other hand, is always a third point of anchorage, whether used with a seat belt or LAs. Crash loads are shared among three anchors, so the upper and lower anchorages experience less crash force than either would if used alone.

A CR's design also affects how much load a TA can withstand. Factors that manage load distribution vary by CR model and may be general or tether-specific.

Consider the scenarios described in the box below.

#### Ways to Reduce Loads on Tether Systems

- Certain designs, features, and usages can help a tether withstand greater loads:
  - Using load-limiting tether designs, such as the Impact-Absorbing Tether from BRITAX, dual tether hooks and straps, and deformable rings, like those found in the dual-tether system of the *RideSafe* vests from Safe Traffic System.
  - Using the shoulder belt to restrain the upper part of a CR. CRs with a relatively high (tall) belt path opening allow the shoulder belt to be routed across more of the upper part of the CR. This routing better restrains the top of the CR, especially if a built-in lock-off or switchable retractor holds the belt. Some CRs are specially designed to take advantage of this routing.
  - Using a TA located far enough away from the back of the CR. BRITAX reports that, in its testing, a longer strap (one reaching more than 15 inches to the TA) reduced the load on the tether hook considerably.

5

# Center borrowing bullet

**Nissan**  
 U.S. 800-647-7261 [www.nissanusa.com](http://www.nissanusa.com) Canada 800-387-0122 [www.nissan.ca](http://www.nissan.ca)

**Bullet Section:** Follow the bulleted guidance here for all models of this brand (with any exceptions noted). Also, check model-specific details in the tables that follow.

- **Maximum child weight—LATCH system (CRs without a weight-limit label):**
  - MY14 and newer: 65 pounds (29.5 kg) minus the CR weight. See Appendix A for the weight of the CR being installed. If the child-plus-CR weight is greater than 65 lbs. (29.5 kg), use a seat belt (and tether, if appropriate) to install the CR.
  - MY13 and older: Follow weight given by the CR manufacturer.
- **Maximum child weight—factory-installed or retrofitted TA when used with the seat belt:** Follow weight given by the CR manufacturer.
- **Shoulder belt entanglement:** Nissan has not provided steps to reduce this risk.
- **Advanced air bag (AAB) suppression system:** AAB technology on the passenger side of some models CAN be affected by pressure/force against the front seatback or upward from under the front seat. Check owner's manuals for equipped vehicles with air bags against pushing/pulling on the seatback pocket or placing loads heavier than 22 lbs. (1kg) in the seatback pocket or on the seatback or headrest. Also, do not place items behind or under the passenger seat that press into the seat.
- **Tethering CRs to a seat belt:** DO NOT use a seat belt from the row behind a CR. (However, see MY97-99 Quest notes for an exception.)

**KEY:** LATCH—Factory-installed lower & tether anchors. TA—Factory-installed TA. None—No LATCH available (factory-installed/retrofit). TA point

• **Center position installation using LAs with nonstandard spacing: MAY NOT borrow the inner LAs from standard outboard LATCH positions to install a CR in the center. Use the seat belt (and tether, if appropriate) instead.**

- Always in the top center.
- May say NO
- May say YES for certain models (in the table below)
- May say YES after a certain model year

## Vehicles with one or two rows—Nissan

MODEL	BODY	YEAR	SECOND ROW		NOTES
			CENTER	OUTBOARD	
200 SX	2-door	95-99	TA point	(2) TA points	(3) TA points are 8-mm weld nuts on rear filler panel; see "Tether anchor retrofit" bullet.
240SX (S13)	Fastback & Coupe	89-98	N/A	(2) TA points	(2) TA points are 8-mm weld nuts on cargo floor; see "Tether anchor retrofit" bullet.
300ZX (Z32)	2+2 Coupe	91-96	N/A	(2) TA points	(2) TA points are 8-mm weld nuts on cargo floor; see "Tether anchor retrofit" bullet.
350Z	Sport Coupe	03-Mid-06	N/A	N/A	<b>Front Seat:</b> TA on luggage area floor. <b>Passenger-Side Air Bag:</b> No on-off switch; do NOT transport children 12 and under unless an air bag on-off switch is installed and set to "off."
		Mid-06 to	N/A	N/A	<b>Front Seat:</b> TA on luggage area floor. <b>Passenger-Side Air Bag:</b> No on-off switch. Rear-facing CRs MAY NOT be installed; forward-facing CRs may be installed using a seat belt and tether with seat moved to the

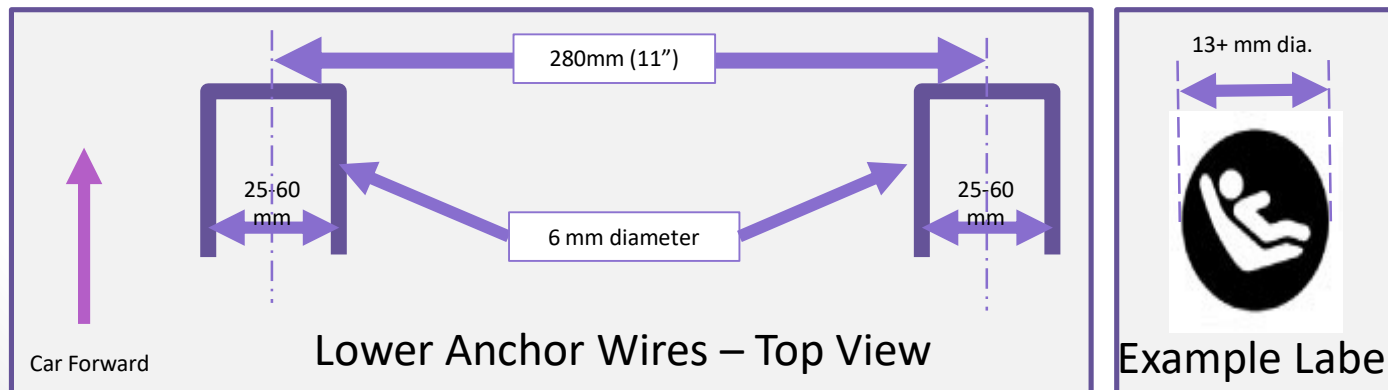
# Center “borrowing”

- “Why don’t all vehicle manufacturers allow center borrowing?”



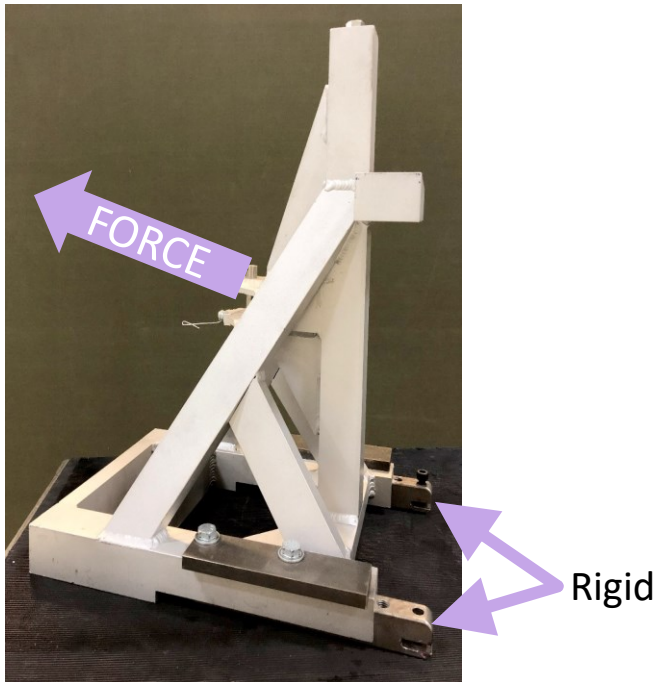
# Background – FMVSS 225

- Lower Anchor Design:
  - Located in the seat bight
  - Not stowable /removable
  - 6mm wire
  - Between 25 and 60mm in width
  - **Spaced 280mm (11") apart**
  - At least 120mm rearward of SRP  
(SRP=Seating Reference Point)
  - Less than 70mm rearward of CRF (CR Fixture) "Z" point
  - Labeled with 13+mm diameter symbol ***if not visible***



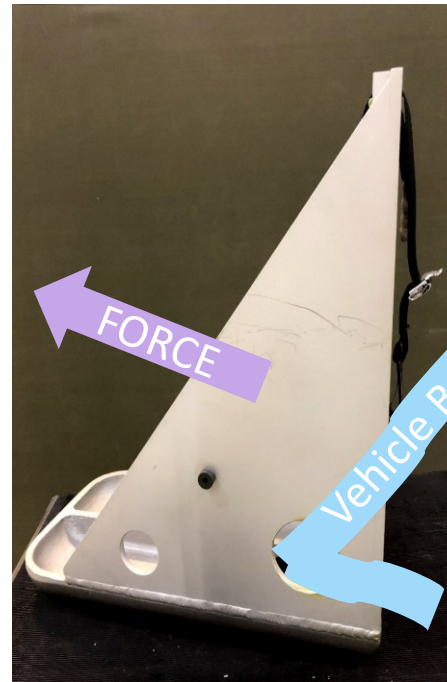
# STRENGTH: Testing in FMVSS 225

- Strength tests for LAs and TAs use *devices* to simulate car seats:



**SFAD II**

Used with lower anchors only OR lower anchors + tether anchor



**SFAD I**

Used with vehicle seat belt + tether anchor



SFAD=Static Force Application Device



# Borrowing, cont.

- By regulation, LAs must all be 6mm wire
  - But, **attachment method** to the vehicle seat or floor as well as strength characteristics may vary from anchor to anchor

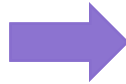


# Remember...

When checking the center borrowing bullet:

- **Center position installation using LAs with nonstandard spacing:** MAY NOT borrow the inner LAs from standard outboard LATCH positions to install a CR in the center. Use the seat belt (and tether, if appropriate) instead.

If borrowing in center positions is allowed by VM...



Also check CR instructions

- Owner's manual
- Appendix A

**3-B Install With Base Rear-Facing With LATCH Strap**

Review your vehicle owner's manual for LATCH location and use.

**1. Place Base in Back Seat of the Vehicle**

Place the base flat on the vehicle seat. Push it back until the front of the base touches the vehicle seat back. Center the base between the lower LATCH anchors.

If allowed by your Vehicle Owner's Manual, the center seating position may be used if the anchor spacing is 11" (28 cm) or greater.

**Appendix A • Child Restraints with LATCH**

**GRACO CHILDREN'S PRODUCTS, INC.**  
(a Newell Brands company)

6655 Peachtree Dunwoody Road, Sandy Springs, GA 30328  
U.S./Canada: 800-345-4109, [www.gracobaby.com](http://www.gracobaby.com)

**All Graco CRs**

# Other LM resources: Table C1

Vehicle brands that say YES

CR brands that say YES

C-2

The LATCH Manual 2019

**Table C1: Using Center LAs With Nonstandard Spacing**

Use this table to help determine whether the inner bars of two outboard LATCH systems may be used to install a CR in a center seating position lacking a designated LATCH system (aka, borrowing). Permission assumes proper installation. Always check the specific vehicle and CR model in appendices A and B for complete details.

Use this table for CRs with a harness only; for BPBs, see the "Borrow Center LAs" column of Table A2 (page A-3).

Key: **YES** = Allowed; both manufacturers say "okay" **NO** = Not allowed; one or both manufacturers say "no"

Vehicle make	Vehicle model (All years, unless MY noted)	Space between LAs (inches)	11 or more inches	11-22 inches	11-20 inches	11-18 inches	11-16 inches	11 ins. only
<b>Acura</b>	ILX (MY18-19), TLX (MY19)	15.0, 15.4	YES	YES	YES	YES	YES	NO
	RDX (MY19), RLX (MY18-19)	16.3, 16.9	YES	YES	YES	YES	NO	NO
<b>Chrysler</b>	200 (MY11-14), FT Cruiser 4-door (MY05-10), Sebring 4-door (MY04-10)	15.4	YES	YES	YES	YES	YES	NO
	200 (MY15-17)	17.7	YES	YES	YES	YES	NO	NO
	Pacifica (MY05-08, 5-seat)	Not given	Measure mid-LA to mid-LA and compare to inches allowed by CR brand.					NO
<b>Dodge</b>	Avenger (MY08-14), Caliber, incl. SRT4, Stratus (MY04-06), Nitro	15.3-15.7	YES	YES	YES	YES	YES	NO
	Dart	17.3	YES	YES	YES	YES	NO	NO
	Dakota Quad Cab 4D (MY05-11), Durango w/ bench (MY04-09)	Not given	Measure mid-LA to mid-LA and compare to inches allowed by CR brand.					NO
<b>Ford</b>	Windstar (MY00-03, 3rd row)	12.0	YES	YES	YES	YES	YES	NO <sup>(5)</sup>
	Fiesta (all styles)	15.4	YES	YES	YES	YES	YES	NO
	Escape (MY01-12), EcoSport	15.7	YES	YES	YES	YES	YES	NO
	Focus (all to MY11, all styles)	17.7	YES	YES	YES	YES	NO	NO
	C-Max, Escape (MY13-19), Edge, Focus (MY12-19), Fusion	18.1	YES	YES	YES	NO	NO	NO
	Explorer (MY11-19), Flex (w/bench), Police Interceptor Utility (MY13-19), Taurus X w/ bench (MY09)	20.5	YES	YES	NO	NO	NO	NO
	Crown Victoria (MY09-11), Explorer (MY09-10), Explorer Sport Trac (MY09-10), F-150 SuperCab/SuperCrew (MY09-19), Ranger Crew Cab (MY19), F-250 through -350 Super Duty Super Cab/Crew Cab (MY17-19), Police Interceptor Sedan (MY13-19), Transit Connect (MY14-19)	>22.0	YES	NO	NO	NO	NO	NO
	Transit: 2nd row of 8-pass. (low roof only), 12-, and 15-pass. models (MY19, any row w/ CB LATCH)	Width variable	Measure mid-LA to mid-LA and compare to inches allowed by CR brand.					NO
<b>Honda</b>	HR-V (MY18-19), Fit (MY19)	14.1	YES	YES	YES	YES	YES	NO
	Civic (MY18-19), Insight (MY19)	15.0	YES	YES	YES	YES	YES	NO
	Clarity, Accord	15.1, 15.4	YES	YES	YES	YES	YES	NO
	Odyssey (3rd row bench)	16.0	YES	YES	YES	YES	YES	NO

CR manufacturer footnotes: (1) Graco/Baby Jogger: Excludes convertible, combination, and all-in-one models with push-on LA connectors. (2) Britax: Allowed only with Britax models made prior to 2015 for which permission is given in the owner's manual. (3) Kiddy: Maximum-allowed LA spacing is 17.7 inches. (4) Merritt Manufacturing: Allowed for all models except Roosevelt. (5) Diono: Allowed since space between LAs is < 14 inches.

Appendix C • Center LATCH Installation

C-3

**Table C1 (cont.): Using Center LAs With Nonstandard Spacing**

Use this table to help determine whether the inner bars of two outboard LATCH systems may be used to install a CR in a center seating position lacking a designated LATCH system (aka, borrowing). Permission assumes proper installation. Always check the specific vehicle and CR model in appendices A and B for complete details.

Use this table for CRs with a harness only; for BPBs, see the "Borrow Center LAs" column of Table A2 (page A-3).

Key: **YES** = Allowed; both manufacturers say "okay" **NO** = Not allowed; one or both manufacturers say "no"

Vehicle make	Vehicle model (All years, unless MY noted)	Space between LAs (inches)	11 or more inches	11-22 inches	11-20 inches	11-18 inches	11-16 inches	11 ins. only
<b>Jeep</b>	Compass, Liberty, Patriot	15.3-16.0	YES	YES	YES	YES	YES	NO
	Wrangler (MY18-19)	18.5 or 19.1	YES	YES	YES	NO	NO	NO
	Grand Cherokee, incl. SRT8 (MY05-10)	18.9	YES	YES	YES	NO	NO	NO
	Wrangler Unlimited, Wrangler JK	19.1	YES	YES	YES	NO	NO	NO
<b>Lexus</b>	LUX	15.6	YES	YES	YES	YES	YES	NO
	RX350 (MY16 see OM, MY17-19), RX350 L, RX450 H (MY16 see OM, MY17-19)	18.1	YES	YES	YES	NO	NO	NO
<b>Lincoln</b>	Continental (MY17-19)	18.0	YES	YES	YES	YES	NO	NO
	MKC, MKC, MKZ, Zephyr	18.1	YES	YES	YES	NO	NO	NO
	LS (MY00-05)	19.7	YES	YES	YES	NO	NO	NO
	MKT w/ bench seat	20.5	YES	YES	NO	NO	NO	NO
	Town Car (MY09-11)	22.8	YES	NO	NO	NO	NO	NO
<b>Mazda</b>	CX-3, Mazda2 (MY16-19)	14.2	YES	YES	YES	YES	YES	NO
	CX-7, Mazda2 (MY11-14), Mazda3, all styles (MY04-13), Protegé (MY01-03), Protegé5, Tribute, CX-5 (MY17-19)	15.35-16.0	YES	YES	YES	YES	YES	NO
	CX-5 (MY13-14)	16.5	YES	YES	YES	YES	NO	NO
	Mazda6 (MY18-19), Mazda6 (MY14-17), Mazda3 (all styles, MY14+)	16.9, 17.4, 17.4	YES	YES	YES	YES	NO	NO
	Mazda6 (all styles, MY03-13)	18.3	YES	YES	YES	NO	NO	NO
	CX-9	19.7	YES	YES	YES	NO	NO	NO
<b>Mercury</b>	Mariner	15.7	YES	YES	YES	YES	YES	NO
	Milan	18.1	YES	YES	YES	NO	NO	NO
	Grand Marquis (MY09-11), Mountaineer 2- or 3-row w/ bench (MY09-10)	>22.0	YES	NO	NO	NO	NO	NO
<b>Scion</b>	iA (MY16)	14.2	YES	YES	YES	YES	YES	NO
<b>Subaru</b>	Crosstrek (incl. XC), Impreza, Legacy, Outback, and WRX (MY15-19, per OM), Forester (MY16-19, per OM)	Not given	Measure mid-LA to mid-LA and compare to inches allowed by CR brand.					NO
<b>Toyota</b>	Yaris, Yaris iA (MY17-19; 16.19 in Canada)	14.2	YES	YES	YES	YES	YES	NO
	Corolla (MY19)	15.6	YES	YES	YES	YES	YES	NO
	Camry (MY19), C-HR (MY17-19), Prius (MY16-MY19)	16.1	YES	YES	YES	YES	YES	NO
	Avalon (MY19), RAV4 (MY19)	16.9, 17.3	YES	YES	YES	YES	NO	NO
<b>Any vehicle not listed on page C-2 or C-3:</b>			<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

CR manufacturer footnotes: See prior page for important notes for Graco/Baby Jogger, Britax, Kiddy, Merritt Manufacturing, and Diono.

# Tether anchor retrofit bullet

- Always in the top right-hand corner.
- A redirect to Chapter 6

**Nissan**

U.S. 800-647-7261 [www.nissanusa.com](http://www.nissanusa.com) Canada 800-387-0122 [www.nissan.ca](http://www.nissan.ca)

**Bullet Section:** Follow the bulleted guidance here for all models of this brand (with any exceptions noted). Also, check model-specific details in the tables that follow.

- Maximum child weight—LATCH system (CRs without a weight-limit label):**
  - MY14 and newer: 65 pounds (29.5 kg) minus the CR weight. See Appendix A for the weight of the CR being installed. If the child-plus-CR weight is greater than 65 lbs. (29.5 kg), use a seat belt (and tether, if appropriate) to install the CR.
  - MY13 and older: Follow weight given by the CR manufacturer.
- Maximum child weight—factory-installed or retrofitted TA when used with the seat belt:** Follow weight given by the CR manufacturer.
- Shoulder belt entanglement:** Nissan has not provided steps to reduce this risk.
- Advanced air bag (AAB) suppression system:** AAB technology on the passenger side of some models CAN be affected by pressure/force against the front seatback or upward from under the front seat. Check the front passenger air bag status light. Owner's manuals for equipped vehicles warn against pushing/pulling on the seatback pocket or placing loads heavier than 2.2 lbs. (1kg) in the seatback pocket or on the seatback or headrest. Also, do not place items behind or under the passenger seat that press into the seat.
- Tethering CRs to a seat belt:** MAY NOT use a seat belt from the row behind a CR as a TA. (However, see MY97–99 Quest notes for an exception.)
- Center position installation using LAs with nonstandard spacing:** MAY NOT borrow the inner LAs from standard outboard LATCH positions to install a CR in the center. Use the seat belt (and tether, if appropriate) instead.
- Head restraints (HRs):** Nonadjustable HRs: Route a 2-point (single-strap) tether around the center of the HR and may be moved and removed and reinstalled to accommodate a CR when the CR is uninstalled. Consult specific HR information for details.
- Use of LATCH with BPB:** MAY attach a BPB to the CR. BPB use does not interfere with LATCH seat belt use and is allowed by the CR manufacturer.
- Cargo covers:** DO NOT use cargo covers or items in the cargo area that contact attached tethers. If the cover interferes with the tether, remove and store the cover while the tether is being used.
- Seatback Angle:** Some owner's manuals state to recline the seatback to access LAs. After attaching the CR's connectors, put seatback in its upright position to complete CR installation.
- Inspection:** See Chapter 6 for details.

**Snug Kids™ safety seat fit guide:** Nissan lists CR models that fit well in each of its current models at [www.nissanusa.com/snugkids](http://www.nissanusa.com/snugkids). In Canada, go to [www.nissan.ca/en/owners/my-nissan/child-safety](http://www.nissan.ca/en/owners/my-nissan/child-safety). If the harness weight limit for the CR mode is 40 pounds or less, only LATCH installation is checked in vehicle positions that have LATCH.

**Seating position limitations:** Some Nissan owner's manuals and Snug Kids guides recommend against certain CR installations in certain seating positions or rows. However, although installation in these situations might be relatively difficult or impossible (depending on the CR), Nissan will allow the installation if it has been checked and approved by a CPST. A note in the model listings that follow indicates when such recommendations are stated in a model's Snug Kids guide or owner's manual; be sure to note details like CR mode and seating position/row.

**KEY:** LATCH—Factory-installed lower & tether anchors TA—Factory-installed TA None—No LATCH available (factory-installed/retrofit) TA point

**Vehicles with one or two rows—Nissan**

MODEL	BODY	YEAR	SECOND ROW		
			CENTER	OUTBOARD	
200 SX	2-door	95-99	TA point	(2) TA points	(3) TA points are 8-mm weld nuts on rear filler panel; see "Tether anchor retrofit" bullet.
240SX (S13)	Fastback & Coupe	89-98	N/A	(2) TA points	(2) TA points are 8-mm weld nuts on cargo floor; see "Tether anchor retrofit" bullet.
300ZX (Z32)	2+2 Coupe	91-96	N/A	(2) TA points	(2) TA points are 8-mm weld nuts on cargo floor; see "Tether anchor retrofit" bullet.
350Z	Sport Coupe	03-Mid-06	N/A	N/A	Front Seat: TA on luggage area floor. Passenger-Side Air Bag: No on-off switch; do NOT transport children 12 and under unless an air bag on-off switch is installed and set to "off."
		Mid-06 to	N/A	N/A	Front Seat: TA on luggage area floor. Passenger-Side Air Bag: No on-off switch. Rear-facing CRs MAY NOT be installed; forward-facing CRs may be installed using a seat belt and tether with seat moved to the

**• Tether anchor retrofit:** Some pre-MY00 vehicles, including those listed with a TA point noted, may be retrofitted with TAs. See Chapter 6 for brand-/model-specific details from Nissan, as well as general advice for retrofitting vehicles with TAs.

# Remember...

## When checking the retrofit bullet:

- **Tether anchor retrofit:** Some pre-MY00 vehicles, including those listed with a TA point noted, may be retrofitted with TAs. See Chapter 6 for brand-/model-specific details from Nissan, as well as general advice for retrofitting vehicles with TAs.



Look for dark band at top

## See Chapter 6 supplement

### MITSUBISHI

- **Retrofit TA kits:** Mitsubishi's TA kit is called Fitting-Child Restraint.
- **Use part #MB597261 for:**
  - 3000GT (MY 91-99)
  - Expo 8-passenger (MY 95)
  - Expo LRV, 5-passenger (MY 92-94)
  - Galant (MY 89-93 and MY 94-98, center)
  - Mirage (MY 93-99)
  - Montero, 7-passenger (MY 97-00)
  - Montero Sport (MY 97-00)
- **Maximum child weight—retrofitted TAs when CR installed using a seat belt:** 65 pounds (29.5 kg) minus the CR weight. (See Appendix A for CR weights.)
- **Unavailable parts:** Parts for these models/MYs are out of stock and cannot be ordered:
  - \*Diamante (4-door, MY 92-99) Galant (pre-MY 88)
  - Diamante (wagon, MY 93) Galant (MY 94-98, OB)
  - Eclipse (MY 90-00) Galant (MY 99-00)
  - Mirage (all to MY 92) Precis (MY 92-94)
  - Sigma (MY 88-90) Tredda (4D, MY 83-88)Instead, use a generic kit, if possible. See next bullet.
- **Generic kit:** A generic TA kit (with an 8-mm bolt) from a CR manufacturer may be used. See the Tether Anchor Retrofit page at [www.saferideneews.com](http://www.saferideneews.com) for additional guidance.
- **\*Diamante 4-dr., MY 92-96:** TA point concealed by brake light. See dealer for assistance.

### OLDSMOBILE

- **TA retrofit program:** Since Oldsmobile is a former GM brand, owners may take advantage of GM's free TA retrofit program. Refer dealers to service bulletin #99-09-40-004a, which can be found on page 72.
- **Retrofit parts and availability:** A GM dealer will provide and install one retrofit TA (called CR Top Tether Hardware Package) for a forward-facing CR used in a rear seating position in most MY 89-02 vehicles. For availability of parts, contact a GM dealer.
- **Maximum child weight—retrofitted TA when CR installed using a seat belt:** 65 pounds (29.5 kg) minus the CR weight. (See Appendix A for CR weights.)
- **Canada:** Retrofit program not authorized in Canada.



## **Hang in there!**

Next: Additional bullets that require comparison to CR-manufacturer instructions

# Entanglement risk bullet

## Nissan

U.S. 800-647-7261 [www.nissanusa.com](http://www.nissanusa.com)

Canada 800-387-0122 [www.nissan.ca](http://www.nissan.ca)

**Bullet Section:** Follow the bulleted guidance here for all models of this brand (with any exceptions noted). Also, check model-specific details in the tables that follow.

- **Maximum child weight—LATCH system (CRs without a weight-limit label):**
  - MY14 and newer: 65 pounds (29.5 kg) minus the CR weight. See Appendix A for the weight of the CR being installed. If the child-plus-CR weight is greater than 65 lbs. (29.5 kg), use a seat belt (and tether, if appropriate) to install the CR.
  - MY13 and older: Follow weight given by the CR manufacturer.
- **Maximum child weight—factory-installed or retrofitted TA when used with the seat belt:** Follow weight given by the CR manufacturer.
- **Center position installation using LAs with nonstandard spacing:** MAY NOT borrow the inner LAs from standard outboard LATCH positions to install a CR in the center. Use the seat belt (and tether, if appropriate) instead.
- **Head restraints (HRs): Nonadjustable HRs:** Route a 2-point (single-strap) tether over the center of the HR and a 3-point (V-shaped) tether around either side. **Adjustable HRs:** HR may be moved upward (and, if removable, removed and securely stowed) to accommodate a removed HR. Replace a removed HR as directed. Some models have exceptions in the notes that follow.
- **Seating position boosters:** Some models require a booster seat and/or TA if doing so requires the use of a booster seat belt use and manufacturer's instructions.
- **Seating position limitations:** Some Nissan owner's manuals state that certain CRs may not be used on seats with the tether, while the tether is attached to the seatback to access LAs. After attaching the CR's LA connectors, put seatback in its upright position to complete CR installation.
- **Tether anchor retrofit:** Some pre-MY00 vehicles, including those listed with a TA point noted, may be retrofitted with TAs. See Chapter 6 for brand-/model-specific details from Nissan, as well as general advice for retrofitting vehicles with TAs.
- **Snug Kids™ safety seat fit guide:** Nissan lists CR models that fit well in each of its current models at [www.nissanusa.com/snugkids](http://www.nissanusa.com/snugkids). In Canada, go to [www.nissan.ca/en/owners/my-nissan/child-safety](http://www.nissan.ca/en/owners/my-nissan/child-safety). If the harness weight limit for the CR mode is 40 pounds or less, only LATCH installation is checked in vehicle positions that have LATCH.
- **Seating position limitations:** Some Nissan owner's manuals and Snug Kids guides recommend against certain CR installations in certain seating positions or rows. However, although installation in these situations might be relatively difficult or impossible (depending on the CR), Nissan will allow the installation if it has been checked and approved by a CPST. A note in the model listings that follow indicates when such recommendations are stated in a model's Snug Kids guide or owner's manual; be sure to note details like CR mode and seating position/row.
- **Tethering CRs to a seat belt:** MAY NOT use a seat belt from the row behind a CR as a TA. (However, see MY99 exception.)
- **Inspection after a crash:** After a crash, LATCH components should be inspected for damage.

• **Shoulder belt entanglement: Nissan has not provided steps to reduce this risk.**

KEY: LATCH—Factory-installed  
None—No LATCH at this position here

CR—Child restraint  
seating position here

- Seat belt strangulation hazard.
- Included in LM because use of LATCH leaves an unused seat belt.

### Vehicles with one or two rows—Nissan

MODEL	BODY	YEAR	SECOND ROW		NOTES
			CENTER	OUTBOARD	
200 SX	2-door	95-99	TA point	(2) TA points	(3) TA points are 8-mm weld nuts on rear filler panel; see "Tether anchor retrofit" bullet.
240SX (S13)	Fastback & Coupe	89-98	N/A	(2) TA points	(2) TA points are 8-mm weld nuts on cargo floor; see "Tether anchor retrofit" bullet.
300ZX (Z32)	2+2 Coupe	91-96	N/A	(2) TA points	(2) TA points are 8-mm weld nuts on cargo floor; see "Tether anchor retrofit" bullet.
350Z	Sport Coupe	03-Mid-06	N/A	N/A	<b>Front Seat:</b> TA on luggage area floor. <b>Passenger-Side Air Bag:</b> No on-off switch; do NOT transport children 12 and under unless an air bag on-off switch is installed and set to "off."
		Mid-06 to	N/A	N/A	<b>Front Seat:</b> TA on luggage area floor. <b>Passenger-Side Air Bag:</b> No on-off switch. Rear-facing CRs MAY NOT be installed; forward-facing CRs may be installed using a seat belt and tether with seat moved to the

# Remember...

When checking entanglement risk bullet:

- **Shoulder belt entanglement:** Nissan has not provided steps to reduce this risk.



Also check CR instructions

- Appendix A

A-42 The LATCH Manual 2019

**HARMONY**  
2435 Guénette St., Montreal, Quebec, Canada H4R 2E9  
U.S. or Canada: 877-306-1001 [www.harmonyjuvenile.com](http://www.harmonyjuvenile.com)

**All Harmony CRs**

- **Center installation:** Borrowing the inner LA bars of outboard LATCH positions is allowed if also allowed by the vehicle manufacturer and the bars are spaced at least 11 inches apart. Applies to CRs and boosters.
- **Maximum child weight for LA attachment use:**
  - **Optyma:** May use the LA attachment at all CR use weights or to vehicle manufacturer's limit, if lower.
  - **Defender 360° CRs made in March 2014 and after:**  
The LA attachment may be used to install the CR up to a child weight of 46 pounds. If the CR is used above the LA attachment limit, install with a seat belt and tether.
  - **Defender 360° CRs made before March 2014:**  
The LA attachment may be used to a child weight of 46 pounds OR to the vehicle manufacturer's limit, whichever is lower. If using the CR above that weight, install with a seat belt and tether. See vehicle owner's manual and/or Appendix B for vehicle anchor weight limits.
    - BPB/BPB mode: LATCH limits do not apply to BPBs.

**Combination CRs**

**Defender 360°**  
Use from 22 to 65 pounds and 27 to 57 inches with the harness; use from 30 to 110 pounds and 34 to 57 inches as BPB.

**Optyma (Canada only)**  
Use from 10 to 22.7 kg (22 to 50 pounds) and 68.6 to 124.3 cm (27 to 57 ins.) with the harness; use from 18.1 to 50 kg (40 to 110 pounds) and 86.4 to 144.8 cm (34 to 57 ins.) as BPB.

**LA Attachments**

- **Design:** Single LA strap with hook-on connectors and a push-button adjuster.
- **Seat belt and LA attachment:** Do not use the seat belt and LA attachment at the same time.
- **Storage:** Hook connectors to loops on the top edge of the CR fabric.

**Tethers**

- **Harmony strongly recommends tethering anytime the CR is used in harness mode.**
- **Design:** V-shaped (**Defender 360°**) or Y-shaped (**Optyma**) strap with push-button adjuster.
- **Maximum child weight for tether use:** Tether use is allowed at all approved CR usage weights.
- **Tether hook orientation:** May be hooked onto TA backwards (180-degree twist) if necessary and allowed by vehicle manufacturer.

- **Anchoring tether to seat belt:** Seat belt from row behind may not be used as a tether anchor, even if this method is specified in the vehicle owner's manual.
- **Storage:** Fully shorten the tether; secure strap with a rubber band.

**Belt-Positioning Booster Mode Use**

**LATCH use with BPB:** Only LA attachment (not tether) may be used with the **Defender 360°** (retrofit) or **Optyma** in BPB mode. Remove slack when used. Secure BPB with a seat belt and/or LA attachment when unoccupied.

**Belt-Positioning Booster**

**Big Boost Deluxe**  
Backless booster. Use from 30 to 110 pounds and 34 to 57 inches. Use of LA attachment is optional, provided it does not negatively affect seat belt use and fit.

**LA Attachment**

- **Design/Use:** LA strap with hook-on connectors tightens/loosens using a central front ("up-front") adjuster. Remove cup holder from its storage location under the BPB before using/adjusting the LA attachment.
- **Tightening:** Pull on up-front adjuster to remove slack.
- **Unoccupied BPB:** Secure with either the seat belt or LA attachment when unoccupied.
- **Storage:** Pull front adjuster to shorten LA straps fully.

**Infant/Child Seat Belt (ISB) Policy**

Do not install a CR in harness mode using an ISB. Use LATCH or a suitable seat belt in another position instead. Follow vehicle manual regarding use of a Ford ISB with a BPB.

**Canada: LATCH Use That Varies**

**Defender 360°** LA attachment may be used to 46 pounds or to the vehicle manufacturer's weight limit, if lower. **Optyma** is sold only in Canada; follow instruction manual.

**Harmony—CR Weights (in pounds)**  
Use this product weight, when needed, to calculate the child weight limit for LATCH. (In U.S., follow label limit for CRs made since Feb. 2014.)

Defender 360°	18.36
Optyma	13.45



# LATCH with boosters bullet

## Nissan

U.S. 800-647-7261 [www.nissanusa.com](http://www.nissanusa.com)

Canada 800-387-0122 [www.nissan.ca](http://www.nissan.ca)

**Bullet Section:** Follow the bulleted guidance here for all models of this brand (with any exceptions noted). Also, check model-specific details in the tables that follow.

- **Maximum child weight—LATCH system (CRs without a weight-limit label):**
  - MY14 and newer: 65 pounds (29.5 kg) minus the CR weight. See Appendix A for the weight of the CR being installed. If the child-plus-CR weight is greater than 65 lbs. (29.5 kg), use a seat belt (and tether, if appropriate) to install the CR.
  - MY13 and older: Follow weight given by the CR manufacturer.
- **Maximum child weight—factory-installed or retrofitted TA when used with the seat belt:** Follow weight given by the CR manufacturer.
- **Shoulder belt entanglement:** Nissan has not provided steps to reduce this risk.
- **Advanced air bag (AAB) suppression system:** AAB technology on the passenger side of some models CAN be affected by pressure/force against the front seat covers: DO NOT allow cargo covers or upward from under the front seat covers. If the cover interferes with the tether, manually for equipped seats. Do not push/pull on the seatback to access LAs. After headrest. Also, do not place items under the passenger seat to complete CR installation.
- **Tethering CRs to a seat belt:** Use a seat belt from the row behind as a TA. (However, see MYCR notes for an exception.)
- **Center position installation using LAs with nonstandard spacing:** MAY NOT borrow the inner LAs from standard outboard LATCH positions to install a CR in the center. Use the seat belt (and tether, if appropriate) instead.
- **Head restraints (HRs):** Nonadjustable HRs: Route a 2-point (single-strap) tether over the center of the HR and a 3-point (V-shaped) tether around either side. Adjustable HRs: HR may be moved upward (and, if removable, removed and securely stowed) to accommodate a CR. Replace a removed HR when the CR is uninstalled. Some models have specific HR information in the notes that follow.
- **Tether anchor retrofit:** Some pre-MY00 vehicles, including those listed with a TA point noted, may be retrofitted with TAs. See Chapter 6 for brand-/model-specific details from Nissan, as well as general advice for retrofitting vehicles with TAs.
- **Snug Kids™ safety seat fit guide:** Nissan lists CR models that fit well in each of its current models at [www.nissanusa.com/snugkids](http://www.nissanusa.com/snugkids). In Canada, go to [www.nissan.ca/en/owners/my-nissan/child-safety](http://www.nissan.ca/en/owners/my-nissan/child-safety). If the harness weight limit for the CR mode is 40 pounds or less, only LATCH installation is checked in vehicle positions that have LATCH.
- **Seating position limitations:** Some Nissan owner's manuals and Snug Kids guides recommend against certain CR installations in certain seating positions or rows. However, although installation in these situations might be relatively difficult or impossible (depending on the CR), Nissan will allow the installation if it has been checked and approved by a CPST. A note in the model listings that follow indicates when such recommendations are stated in a model's Snug Kids guide or owner's manual; be sure to note details like CR mode and seating position/row.
- **Inspection after a crash:** After a crash, LATCH components should be inspected for damage; see dealer to repair or replace parts.

**KEY:** LATCH—LATCH system; factory-installed lower & tether anchors TA—Factory-installed tether anchor LA—Lower anchor OB—Outboard MY—Model year CR—Child restraint Non—Nissan does not have LATCH available (factory-installed/retrofit) TA point—Designated retrofit TA location OM—Owner's manual N/A—No vehicle seating position here

- Vehicle manufacturers have statements on BPBs and LATCH
- One issue is that some LAs are not aligned with seat belts.
- Others?

### Vehicle with one or two rows

MODEL	BODY	YEAR			
200 SX	2-Door	00-02			
240SX (S13)	Fastback & Coupe	88-98			
300ZX (Z32)	2+2 Coupe	91-96			
		03-Mid-06			
	Sport Coupe		N/A	N/A	
350Z		Mid-06 to			

• **Use of LATCH with belt-positioning boosters:** MAY attach a BPB to LAs and/or TA if doing so does not interfere with proper seat belt use and is allowed by the CR manufacturer.

**Front Seat:** TA on luggage area floor.  
**Passenger-Side Air Bag:** No on-off switch; do NOT transport children 12 and under unless an air bag on-off switch is installed and set to "off."  
**Front Seat:** TA on luggage area floor.  
**Passenger-Side Air Bag:** No on-off switch. Rear-facing CRs MAY NOT be installed; forward-facing CRs may be installed using a seat belt and tether with seat moved to the

# Remember...

## When checking the LATCH With Boosters bullet:

- **Use of LATCH with belt-positioning boosters:** MAY attach a BPB to LAs and/or TA if doing so does not interfere with proper seat belt use and is allowed by the CR manufacturer.

If LATCH use is allowed with BPB by VM...

## Also check CR instructions

- Owner's manual



Do not use this booster seat if the tops of your child's ears are above the top of the booster seat's headrest.



Use only the vehicle's lap and shoulder belt system when restraining the child in this booster seat.

Do not use only the lap belt when using this seat as a booster seat.

The shoulder belt must always be adjusted snugly across the child's chest. NEVER place the shoulder belt under the child's arms.



Do not use the LATCH system when using as a booster seat. Secure lower anchor belt and tether strap to their storage locations.

Failure to follow these warnings can result in serious injury or death.

- Appendix A

### **Belt-Positioning Boosters**

- **BPB use with LATCH:** Do not use the LA attachment or tether on any Dorel CR used as a BPB.  
**Exception:** Maxi-Cosi *RodiFix* has optional rigid LA connectors. Attach only to standard-width LATCH positions; do not attach connectors if doing so interferes with proper vehicle belt fit. Weight limits do not apply to booster seats. (Also, Cosco *Grand Explorer* shield BPB had LA strap for use with shield. This BPB is expired; do not use.)

# Other LM resources: Table A2

## Appendix A • Child Restraints With LATCH

A-3

### Table A2: Use of LATCH With Boosters

This table includes only unexpired BPBs in use as of press time. BPBs for children with special needs (made by Convaid/R82, I'M11, Merritt Manufacturing, and Thomashillen) are not included in this table.

- Important:**
- Do not use the LA attachment and/or tether if doing so interferes with proper seat belt placement on the child.
  - Consider vehicle maker's guidance; see Appendix B.
  - See the owner's manual and/or the manufacturer's entry in this appendix for details on the use of these products.

CR manufacturer and model type BPBs (boosters) and CRs in BPB mode. RL=Rigid LA attachment FL=Flexible LA attmnt.	Use of LA attachment when CR used as BPB O=Optional P=Prohibited	Strap adjustment • Leave loose • Rigid connectors • Remove slack	Tether use O=Optional P=Prohibited N/A=No tether in BPB mode	Borrow center LAs with non-standard spacing for LA attachment? Y=Yes (OK width) N=No	Notes For all: • Anchor weight limits do not apply in BPB mode. • Use of LA attachment/tether must not interfere with proper belt fit.
<b>Baby Jogger</b> Combination CR w/ FL	O	Remove slack	O	N	
<b>Baby Trend</b> Combination CR w/ RL Combination CRs w/ FL	O O	Rigid connectors Remove slack	O O	N Y	Tether use an option only when used in highback mode.
<b>BRITAX</b> Combination CRs w/ FL BPB w/ FL	O O	Remove slack Remove slack	O N/A	Y* (11–20 inches) Y (11–20 inches)	*Allowed only if made pre-2015. Use short belt path on models with long/short options.
<b>Chicco</b> BPBs w/ FL Combination CR w/ FL	O O	Remove slack Remove slack	N/A O	N N	
<b>Clek</b> BPBs w/ RL	O (see note)	Rigid connectors	N/A	N	<b>Oobr:</b> Must attach to LAs when highback and reclined.
<b>CYBEX</b> BPBs w/ RL All-in-1 CR w/ FL	O O	Rigid connectors Remove slack	N/A O	N Y	
<b>Diono</b> BPBs w/ FL Combination CRs w/ FL	O O	Remove slack Remove slack	O N/A	Y (11–14 inches) Y (at least 11 ins.)	
<b>Dorel</b> BPB w/ RL All other types	O P	Rigid connectors N/A	N/A P	N N/A	
<b>Evenflo</b> Comb./All-in-1 CRs w/ FL	O	Remove slack	O	Y (11–20 inches)	
<b>Graco</b> BPB w/ FL Comb./All-in-1 CRs w/ FL*	O O*	Remove slack Remove slack	N/A O*	Y (at least 11 ins.) Y (at least 11 ins.)	* Excludes <b>Smart Seat</b> in BPB mode.
<b>Harmony</b> BPB w/ FL Combination CR w/ FL	O O	Remove slack Remove slack	N/A P	Y (at least 11 ins.) Y (at least 11 ins.)	
<b>Jané</b> BPB w/ RL	O	Rigid connectors	N/A	N	
<b>Kiddy</b> BPB w/ RL Combination CR w/ FL	O P	Rigid connectors N/A	N/A P	N N/A	
<b>KidsEmbrace</b> Combination CRs w/ FL	O	Remove slack	O	N	
<b>M-Benz</b> BPB w/ RL	O	Rigid connectors	N/A	N	
<b>Nuna</b> BPB w/ RL	O	Rigid connectors	N/A	N	
<b>Peg Pérego</b> BPB w/ FL BPBs w/ RL	O O	Remove slack Rigid connectors	N/A N/A	N N	
<b>RECARO</b> BPB with FL Combination CRs w/ FL	O O	Leave loose* Remove slack	O O	Y (11–20 inches) Y (11–20 inches)	* <b>Performance Booster:</b> No adjuster; cannot be tightened.
<b>Sentry</b> Combination CR w/ FL	O	Remove slack	O	Y (at least 11 ins.)	Use either long (serpentine) or short belt path.
<b>Urbini</b> Comb. CR w/ FL	O	Remove slack	O	Y (at least 11 ins.)	

QRs never replace manufacturer's instructions! See the CR owner's manual and entry in Appendix A for product-specific information.

- Page A-3
- Includes policies on LATCH-with-BPB use for all conventional brands that sell BPBs, by BPB type.

# Tethering to a seat belt bullet

## Nissan

U.S. 800-647-7261 [www.nissanusa.com](http://www.nissanusa.com)

Canada 800-387-0122 [www.nissan.ca](http://www.nissan.ca)

**Bullet Section:** Follow the bulleted guidance here for all models of this brand (with any exceptions noted). Also, check model-specific details in the tables that follow.

- **Maximum child weight—LATCH system (CRs without a weight-limit label):**
  - MY14 and newer: 65 pounds (29.5 kg) minus the CR weight. See Appendix A for the weight of the CR being installed. If the child-plus-CR weight is greater than 65 lbs. (29.5 kg), use a seat belt (and tether, if appropriate) to install the CR.
  - MY13 and older: Follow weight given by the CR manufacturer.
- **Maximum child weight—factory-installed or retrofitted TA when used with the seat belt:** Follow weight given by the CR manufacturer.
- **Shoulder belt entanglement:** Nissan has not provided steps to reduce this risk.
- **Advanced air bag (AAB) suppression system:** AAB technology on the passenger side of some models CAN be affected by pressure/force against the front seatback or upward from under the front seat. Check the front passenger air bag status light. Owner's manuals for equipped vehicles warn against pushing/pulling on the seatback pocket or placing loads heavier than 2.2 lbs. (1kg) in the seatback pocket or on the seatback or headrest. Also, do not place items behind or under the passenger seat that press into the seat.
- **Center position installation using LAs with nonstandard spacing:** MAY NOT borrow the inner LAs from standard outboard LATCH positions to install a CR in the center. Use the seat belt (and tether, if appropriate) instead.
- **Head restraints (HRs):** Nonadjustable HRs: Route a 2-point (single-strap) tether over the center of the HR and a 3-point (V-shaped) tether around either side. Adjustable HRs: HR may be moved upward (and, if removable, removed and securely stowed) to accommodate a CR. Replace a removed HR when the CR is uninstalled. Some models have specific HR information in the notes that follow.
- **Use of LATCH with belt-positioning boosters:** MAY attach a BPB to LAs and/or TA if doing so does not interfere with proper seat belt use and is allowed by the CR manufacturer.
- **Cargo covers:** DO NOT allow cargo covers or items in the cargo area to contact attached tethers. If the cover interferes with the tether, remove and store the cover while the tether is being used.
- **Seatback Angle:** Some owner's manuals state to recline the seatback to access LAs. After attaching the LAs LA connectors, put seatback in upright position to complete CR installation.
- **Tether anchor retrofit:** Some pre-MY00 vehicles, including those listed with a TA point noted, may be retrofitted with TAs. See Chapter 6 for brand/model-specific details from Nissan, as well as general advice for retrofitting vehicles with TAs.
- **Snug Kids™ safety seat fit guide:** Nissan lists CR models that fit well in each of its current models at [www.nissanusa.com/snugkids](http://www.nissanusa.com/snugkids). In Canada, go to [www.nissan.ca/en/owners/my-nissan/child-safety](http://www.nissan.ca/en/owners/my-nissan/child-safety). If the harness weight limit for the CR mode is 40 pounds or less, only LATCH installation is checked in vehicle positions that have LATCH.
- **Seating position limitations:** Some Nissan owner's manuals and Snug Kids guides recommend against certain CR installations in certain seating positions or rows. However, although installation in these situations might be relatively difficult or impossible (depending on the CR), Nissan will allow the installation if it has been checked and approved by a CPST. A note in the model listings that follow indicates when such recommendations are stated in a model's Snug Kids guide or owner's manual; be sure to note details like CR mode and seating position/row.

- **After a crash, LATCH anchors should be inspected for damage; replace parts.**

**KEY:** LATCH—Factory-installed lower & tether anchors TA—Tether anchor location None—No LATCH available (factory-installed/retrofit) LA—Lower anchor OB—Outboard MY—Model year CR—Child restraint location OM—Owner's manual N/A—No vehicle seating position here

### Vehicles with one or two rows—Nissan

- **Tethering CRs to a seat belt: MAY NOT use a seat belt from the row behind a CR as a TA. (However, see MY97–99 Quest notes for an exception.)**

NOTES
rear filler panel; see "Tether anchor retrofit" bullet.
cargo floor; see "Tether anchor retrofit" bullet.
cargo floor; see "Tether anchor retrofit" bullet.
switch; do NOT transport children 12 and under unless an air bag on-off switch is installed and set to "off."
<b>Front Seat:</b> TA on luggage area floor. <b>Passenger-Side Air Bag:</b> No on-off switch. Rear-facing CRs MAY NOT be installed; forward-facing CRs may be installed using a seat belt and tether with seat moved to the

- Huh?????
- Pre-LATCH, a popular way to tether in some vehicles
  - Three-row
  - Vehicles with a back seat, but unsuitable to CR use.
- Occasionally useful today.

# Remember...

## When checking the Tethering to a Seat Belt bullet:

- **Tethering CRs to a seat belt:** MAY NOT use a seat belt from the row behind a CR as a TA. (However, see MY97–99 Quest notes for an exception.)

If doing so is by VM...



## Also check CR instructions

- Appendix A

### Tethers

- **Maximum child weight for tether use:** When forward facing, Evenflo recommends tether use at all allowed CR usage weights.
- **Tethering using a tether extender:** If a tether is too short to reach the designated TA, or if the tether's adjuster is too large to fit through a router or between a vehicle head restraint's legs (posts), a tether extender may be added to improve compatibility. (See LATCH Parts, below, and Volvo/Tethering in the LATCH Gallery at [www.saferidenews.com](http://www.saferidenews.com).)
- **Tether hook orientation:** Tether connector hooks may be turned backwards (180-degree twist) to accommodate vehicle tether anchor location or space issues.

- **Tethering rear facing:** Not allowed.

# Other resources: Chapter 5

## Other Methods of Limiting Head Excursion

Securing the top of a forward-facing CR with a tether is the most common and effective method for limiting head excursion (a major cause of serious injury) in a crash. However, as described in the previous sections of this chapter, tethering is sometimes not possible, due to problems like CR/vehicle incompatibility, lack of TAs in the vehicle, and TAs with a maximum weight limit that is too low for the child. Finding a solution to these problems may take effort and resources, but is worthwhile. First, see if it is feasible to:

- Change where the child sits in the vehicle.
- Use a different CR.
- Retrofit the vehicle with a TA.
- Use a different car.

Because some problems that prevent tethering in the typical manner cannot be easily solved, keep in mind the alternative methods for limiting head excursion discussed in the following sections.



*Big kids who ride in a CR with a harness are safer when the CR is tethered. Consider all ways to limit head excursion, especially if tethering in the typical manner is not possible.*

## Tethering a CR to a seat belt

In the years before LATCH, a tethering method that was employed in some vehicles was to hook the tether to a seat belt from the row directly behind the CR. This method is rarely recommended today, but can sometimes be a useful alternative for tethering.

### When to consider using a seat belt for tethering

If the vehicle has TAs or can be retrofitted using an approved TA kit, attachment to either of these is preferable to tethering to a seat belt. However, in some situations, attachment to a seat belt is the only option for tethering. Such circumstances might include:

- When an older vehicle lacks TAs, cannot be retrofitted, and the vehicle instructions specify this method as the recommended means for tethering.
- When the child *must* ride in a particular vehicle position that lacks a TA, even if TAs are elsewhere in the vehicle.
- When the child weighs more than the TA weight limit.

A seat belt meets federal standards for adult restraint, so it offers an anchorage option that's stronger than a TA. However, using a seat belt this way eliminates a seating position, is only possible when there is a row behind the CR, and must be approved by both manufacturers.

### Where to consider using a seat belt for tethering

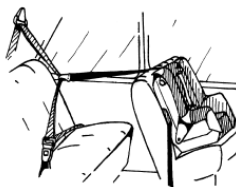
- In the second row of a three-row vehicle.
- In the front seat of any car (if there is no alternative to this less-than-ideal seating position).
- On school buses when the child must ride in a CR and a regular TA is not present.

### Check manufacturer policies on using a seat belt to anchor a tether

After LATCH was introduced, most manufacturers that had formerly allowed tethering to a seat belt gradually reversed that policy. Many CR manufacturers have also revoked such permission. So scenarios in which both the CR and vehicle manufacturer allow this technique are now rare. See appendices A and B for manufacturer-specific information.

Most CR manufacturers (25 of 31 that sell CRs with tethers) reported that they allow tethers to be attached to a seat belt in the row behind a CR, but usually only if this method is stated in vehicle instructions and regular tethering is not an option. Manufacturers of CRs for children with special needs are likely to allow this technique as a way to continue tether use for children who weigh more than a vehicle's TA limit. Other CR makers allow this method, as well, given the circumstances described above.

Vehicle manufacturers limit this option much more than CR manufacturers do. In the latest survey, only seven brands answered that they allow this practice—usually only in select models (see bullets in Appendix B). Nissan allows this technique only in its MY 97–99 Quest minivan. The Ford brands allow this practice in more models, but all are from model year 2000 and earlier (and usually for CRs in the front seat of pickup trucks). Chrysler and Dodge extend permission to use this tethering method to all three-row models as necessary and allowed by the CR manufacturer.



*This CR is tethered to a buckled seat belt in the vehicle's third row. The belt's retractor has been switched to locked mode so the seat belt can't lengthen.*

## Attaching a tether to a buckled seat belt

Some vehicle manuals say to clip the tether hook onto the webbing of a buckled lap or lap-shoulder belt (illustration, previous page). Roll the seat belt webbing to make it easier to clip the tether hook around it. The hook-retainer spring should close fully around the webbing. Some vehicle manuals that allow this method don't offer detailed instructions. Follow these guidelines for seat belts with:

- **A switchable retractor:** Buckle the belt and switch it to locked mode. Hook the tether to the belt webbing and tighten the tether. (Don't let so much webbing go back into the retractor that the belt returns to unlocked mode. Check that the belt is locked.)
- **An ELR and free-sliding latchplate:** Buckle the seat belt, then pull all the webbing out of the emergency locking retractor (vehicle instructions may specify using the lap or shoulder portion). Hook the tether to the belt that's pulled out, and tighten the tether. If it is not possible to tighten the tether because the fully extended seat belt is too close to the CR, do not use this method.
- **An ELR and locking latchplate:** Buckle the seat belt, then tighten the lap portion of the belt as much as possible by pulling up on the shoulder belt. Hook the tether to the lap part of the belt, and tighten the tether. Make sure the lap part of the webbing stays locked.

## Attaching a tether to a seat belt latchplate

Some vehicle owner's manuals suggest using a lap belt latchplate as a tether anchor (illustration, below).

First, shorten the webbing of the lap belt as much as possible by either pulling the strap of a belt that has a locking latchplate or by activating an automatic locking retractor. If the lap belt has an emergency locking retractor, pull the belt out to its full length instead.

Then, clip the tether hook through the latchplate hole and tighten the tether. The tether hook may be difficult to get through the latchplate hole, depending on the hook size and seat belt design. The hook-retainer spring must close fully around the latchplate.



*A CR installed in the second row of a van, tethered to a third-row latchplate.*

Pages 49 and 50 describe this technique, with images and detailed description of three approaches, given seat belt type.



## **You still with me?**

Next: Bullets that are relevant to the vehicle-side only

# Head restraint bullet

**Nissan**

U.S. 800-647-7261 [www.nissanusa.com](http://www.nissanusa.com) Canada 800-387-0122 [www.nissan.ca](http://www.nissan.ca)

**Bullet Section:** Follow the bulleted guidance here for all models of this brand (with any exceptions noted). Also, check model-specific details in the tables that follow.

- Maximum child weight—LATCH system (CRs without a weight-limit label):**
  - MY14 and newer: 65 pounds (29.5 kg) minus the CR weight. See Appendix A for the weight of the CR being installed. If the child-plus-CR weight is greater than 65 lbs. (29.5 kg), use a seat belt (and tether, if appropriate) to install the CR.
  - MY13 and older: Follow weight given by the CR manufacturer.
- Maximum child weight—factory-installed or retrofitted TA when used with the CR:** Follow weight given by the CR manufacturer.
- Shoulder belt entanglement:** Follow the provided steps to avoid entanglement.
- Advanced Air Bag (AAB) system:** AAB is located on the side of some vehicles. Do not use pressure/force to move the AAB upward from under the seat or front passenger area. Follow the manuals for equipment against pushing/pulling on the AAB pocket or placing loads heavier than 10 lbs. (4.5 kg) in the seatback pocket or on the seatback headrest. Also, do not sit under the passenger seat.
- Tethering CRs to a seat belt:** MAY NOT use a seat belt from the row behind a CR as a TA. (However, see MY97–99 Quest notes for an exception.)
- Center position installation using LAs with nonstandard spacing:** MAY NOT borrow the inner LAs from standard outboard LATCH positions to install a CR in the center. Use the seat belt (and tether, if appropriate) instead.
- Tether anchor retrofit:** Some pre-MY00 vehicles, including those listed with a TA point noted, may be retrofitted with TAs. See Chapter 6 for brand-/model-specific details from Nissan, as well as general advice for retrofitting vehicles with TAs.
- Snug Kids™ safety seat fit guide:** Nissan lists CR models that fit well in each of its current models at [www.nissanusa.com/snugkids](http://www.nissanusa.com/snugkids). In Canada, go to [www.nissan.ca/en/owners/my-nissan/child-safety](http://www.nissan.ca/en/owners/my-nissan/child-safety). If the harness weight limit for the CR mode is 40 pounds or less, only LATCH installation is checked in vehicle positions that have LATCH.
- Seating position limitations:** Some Nissan owner's manuals and Snug Kids guides recommend against certain CR installations in certain seating positions or rows. However, although installation in these situations might be relatively difficult or impossible (depending on the CR), Nissan will allow the installation if it has been checked and approved by a CPST. A note in the model listings that follow indicates when such recommendations are stated in a manual.

**Use of LATCH with belt-positioning boosters:** MAY attach a BPB to LAs and/or TA if doing so does not interfere with proper seat belt use and is allowed by the CR manufacturer.

**Cargo covers:** DO NOT allow cargo covers or items in the cargo area to contact attached tethers. If the cover interferes with the tether, remove and store the cover while the tether is being used.

**Seatback Angle:** Some owner's manuals state

**Head restraints (HRs):** Nonadjustable HRs: Route a 2-point (single-strap) tether over the center of the HR and a 3-point (V-shaped) tether around either side. Adjustable HRs: HR may be moved upward (and, if removable, removed and securely stowed) to accommodate a CR. Replace a removed HR when the CR is uninstalled. Some models have specific HR information in the notes that follow.

**KEY:** LATCH—Factory-installed lower & tether anchors TA—None—No LATCH available (factory-installed/retrofit)

**Vehicles with one or two rows—Nissan**

MODEL	BODY	YEAR	SECOND ROW		
			CENTER	TA POINT	
200 SX	2-door	95-99	TA point		
240SX (S13)	Fastback & Coupe	89-98	N/A	(2) TA points	
300ZX (Z32)	2+2 Coupe	91-96	N/A	(2) TA points	
350Z	Sport Coupe	03-Mid-06	N/A	N/A	(2) TA points are 8-mm weld nuts on cargo floor; see "Tether anchor retrofit" bullet.
		Mid-06 to			(2) TA points are 8-mm weld nuts on cargo floor; see "Tether anchor retrofit" bullet.

**Front Seat:** TA on luggage area floor.  
**Passenger-Side Air Bag:** No on-off switch; do NOT transport children 12 and under unless an air bag on-off switch is installed and set to "off."  
**Front Seat:** TA on luggage area floor.  
**Passenger-Side Air Bag:** No on-off switch. Rear-facing CRs MAY NOT be installed; forward-facing CRs may be installed using a seat belt and tether with seat moved to the

- Also check the vehicle model notes.
- Can be helpful to know what can be done with HR for tethering purposes.
- Also, interference with top of FF CR.



# Cargo cover bullet

## Nissan

U.S. 800-647-7261 [www.nissanusa.com](http://www.nissanusa.com)

Canada 800-387-0122 [www.nissan.ca](http://www.nissan.ca)

**Bullet Section:** Follow the bulleted guidance here for all models of this brand (with any exceptions noted). Also, check model-specific details in the tables that follow.

- **Maximum child weight—LATCH system (CRs without a weight-limit label):**
  - MY14 and newer: 65 pounds (29.5 kg) minus the CR weight. See Appendix A for the weight of the CR being installed. If the child-plus-CR weight is greater than 65 lbs. (29.5 kg), use a seat belt (and tether, if appropriate) to install the CR.
  - MY13 and older: Follow weight given by the CR manufacturer.
- **Maximum child weight—factory-installed or retrofitted TA when used with the seat belt:** Follow weight given by the CR manufacturer.
- **Shoulder belt entanglement:** Nissan has not provided steps to reduce this risk.
- **Advanced air bag (AAB) suppression system:** AAB technology on the passenger side of some models CAN be affected by pressure/force against the front seatback or upward from under the front seat. Check the front passenger air bag status light. Owner's manuals for equipped vehicles warn against pushing/pulling on the seatback or placing loads heavier than the weight of the seatback pocket on the seatback or on the headrest. Also, do not lean back in its upright position to complete CR installation.
- **Tethering CRs to a seat belt:** Always use a seat belt to tether a CR. (However, see MY97-00 exception.)
- **Center position installation using LAs with nonstandard spacing:** MAY NOT borrow the inner LAs from standard outboard LATCH positions to install a CR in the center. Use the seat belt (and tether, if appropriate) instead.
- **Head restraints (HRs):** Nonadjustable HRs: Route a 2-point (single-strap) tether over the center of the HR and a 3-point (V-shaped) tether around either side. Adjustable HRs: HR may be moved upward (and, if removable, removed and securely stowed) to accommodate a CR. Replace a removed HR when the CR is uninstalled. Some models have specific HR information in the notes that follow.
- **Use of LATCH with belt-positioning boosters:** MAY attach a BPB to LAs and/or TA if doing so does not interfere with proper seat belt use and is allowed by the CR manufacturer.
- **Tether anchor retrofit:** Some pre-MY00 vehicles, including those listed with a TA point noted, may be retrofitted with TAs. See Chapter 6 for brand-/model-specific details from Nissan, as well as general advice for retrofitting vehicles with TAs.
- **Snug Kids™ safety seat fit guide:** Nissan lists CR models that fit well in each of its current models at [www.nissanusa.com/snugkids](http://www.nissanusa.com/snugkids). In Canada, go to [www.nissan.ca/en/owners/my-nissan/child-safety](http://www.nissan.ca/en/owners/my-nissan/child-safety). If the harness weight limit for the CR mode is 40 pounds or less, only LATCH installation is checked in vehicle positions that have LATCH.
- **Seating position limitations:** Some Nissan owner's manuals and Snug Kids guides recommend against certain CR installations in certain seating positions or rows. However, although installation in these situations might be relatively difficult or impossible (depending on the CR), Nissan will allow the installation if it has been checked and approved by a CPST. A note in the model listings that follow indicates when such recommendations are stated in a model's Snug Kids guide or owner's manual; be sure to note details like CR mode and seating position/row.
- **Seating position after a crash:** After a crash, LATCH components should be inspected for damage:

• **Cargo covers: DO NOT allow cargo covers or items in the cargo area to contact attached tethers. If the cover interferes with the tether, remove and store the cover while the tether is being used.**

KEY: LATCH—Factory-installed tether anchors. T—Factory-installed TA. F—Factory-installed fastener. N/A—No LATCH available. NAC—No tether anchors.

### Vehicles with one or two rows—Nissan

MODEL	BODY	YEAR	SECOND ROW		
			CENTER	OUTBOARD	OUTBOARD
200 SX	2-door	95-99	TA point	(2) TA points	(3) TA points are 8-mm weld nuts on rear filler panel; see "Tether anchor retrofit" bullet.
240SX (S13)	Fastback & Coupe	89-98	N/A	(2) TA points	(2) TA points are 8-mm weld nuts on cargo floor; see "Tether anchor retrofit" bullet.
300ZX (Z32)	2+2 Coupe	91-96	N/A	(2) TA points	(2) TA points are 8-mm weld nuts on cargo floor; see "Tether anchor retrofit" bullet.
350Z	Sport Coupe	03-Mid-06	N/A	N/A	Front Seat: TA on luggage area floor. Passenger-Side Air Bag: No on-off switch; do NOT transport children 12 and under unless an air bag on-off switch is installed and set to "off."
		Mid-06 to	N/A	N/A	Front Seat: TA on luggage area floor. Passenger-Side Air Bag: No on-off switch. Rear-facing CRs MAY NOT be installed; forward-facing CRs may be installed using a seat belt and tether with seat moved to the

- Some cargo covers affect tether use.
- Becoming more common.

# Seating position limitations bullet

**Nissan**

U.S. 800-647-7261 [www.nissanusa.com](http://www.nissanusa.com) Canada 800-387-0122 [www.nissan.ca](http://www.nissan.ca)

**Bullet Section:** Follow the bulleted guidance here for all models of this brand (with any exceptions noted). Also, check model-specific details in the tables that follow.

- **Maximum child weight—LATCH system (CRs without a weight-limit label):**
  - MY14 and newer: 65 pounds (29.5 kg) minus the CR weight. See Appendix A for the weight of the CR being installed. If the child-plus-CR weight is greater than 65 lbs. (29.5 kg), use a seat belt (and tether, if appropriate) to install the CR.
  - MY13 and older: Follow weight given by the CR manufacturer.
- **Maximum child weight—factory-installed or retrofitted TA when used with the seat belt:** Follow weight given by the CR manufacturer.
- **Shoulder belt entanglement:** Nissan has not provided steps to reduce this risk.
- **Advanced air bag (AAB) suppression system:** AAB technology on the passenger side of some models CAN be affected by pressure/force against the front seatback or upward from under the front seat. Check the front passenger air bag status light. Owner's manuals for equipped vehicles warn against pushing/pulling on the seatback pocket or placing loads heavier than 2.2 lbs. (1kg) in the seatback pocket or on the seatback or headrest. Also, do not place items behind or under the passenger seat that press into the seat.
- **Tethering CRs to a seat belt:** MAY NOT use a
- **Center position installation using LAs with nonstandard spacing:** MAY NOT borrow the inner LAs from standard outboard LATCH positions to install a CR in the center. Use the seat belt (and tether, if appropriate) instead.
- **Head restraints (HRs): Nonadjustable HRs:** Route a 2-point (single-strap) tether over the center of the HR and a 3-point (V-shaped) tether around either side. **Adjustable HRs:** HR may be moved upward (and, if removable, removed and securely stowed) to accommodate a CR. Replace a removed HR when the CR is uninstalled. Some models have specific HR information in the notes that follow.
- **Use of LATCH with belt-positioning booster:** MAY attach a BPB to LAs and/or TA if the BPB does not interfere with proper seating and is allowed by the CR manufacturer.
- **Cargo covers:** DO NOT place items in the cargo area behind the seatbacks. If the seatbacks are removed and stowed, the covers are not to be used.
- **Seatback Angle:** DO NOT attempt to recline the seatback. The CR is to be attached to the CR anchor and the CR seatback in its upright position. Complete CR installation.

**Inspection after a crash:** Inspect for damage:

LATCH anchor OB—Outboard MY—Model year CR—Child restraint DM—Owner's manual N/A—No vehicle seating position here

NOTES
Weld nuts on rear filler panel; see "Tether anchor retrofit" bullet.
Weld nuts on cargo floor; see "Tether anchor retrofit" bullet.
Weld nuts on cargo floor; see "Tether anchor retrofit" bullet.
Page area floor. tag: No on-off switch; do NOT transport children 12 and under if switch is installed and set to "off."
Page area floor. tag: No on-off switch. Rear-facing CRs MAY NOT be installed; must be installed using a seat belt and tether with seat moved to the

**Seating position limitations:** Some Nissan owner's manuals and Snug Kids guides recommend against certain CR installations in certain seating positions or rows. However, although installation in these situations might be relatively difficult or impossible (depending on the CR), Nissan will allow the installation if it has been checked and approved by a CPST. A note in the model listings that follow indicates when such recommendations are stated in a model's Snug Kids guide or owner's manual; be sure to note details like CR mode and seating position/row.

- Misc. seating position information
- Sometimes a general warning.
- Sometimes specific
- Can clarify and/or modify vehicle seating position warnings.

# AAB suppression system bullet

**Nissan**

U.S. 800-647-7261 [www.nissanusa.com](http://www.nissanusa.com)      Canada 800-387-0122 [www.nissan.ca](http://www.nissan.ca)

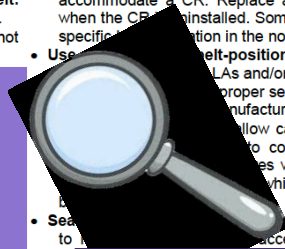
**Bullet Section:** Follow the bulleted guidance here for all models of this brand (with any exceptions noted). Also, check model-specific details in the tables that follow.

- Maximum child weight—LATCH system (CRs without a weight-limit label):**
  - MY14 and newer: 65 pounds (29.5 kg) minus the CR weight. See Appendix A for the weight of the CR being installed. If the child-plus-CR weight is greater than 65 lbs. (29.5 kg), use a seat belt (and tether, if appropriate) to install the CR.
  - MY13 and older: Follow weight given by the CR manufacturer.
- Maximum child weight—factory-installed or retrofitted TA when used with the seat belt:** Follow weight given by the CR manufacturer.
- Shoulder belt entanglement:** Nissan has not provided steps to reduce this risk.
- Center position installation using LAs with nonstandard spacing:** MAY NOT borrow the inner LAs from standard outboard LATCH positions to install a CR in the center. Use the seat belt (and tether, if appropriate) instead.
- Head restraints (HRs):** Nonadjustable HRs: Route a 2-point (single-strap) tether over the center of the HR and a 3-point (V-shaped) tether around either side. Adjustable HRs: HR may be moved upward (and, if removable, removed and securely stowed) to accommodate a CR. Replace a removed HR when the CR is installed. Some models have specific instructions in the notes that follow.
- Use of seat-belt-positioning boosters:** LAs and/or TA if doing so do not impede proper seat belt use and manufacturer's instructions.
- Seating position limitations:** Some Nissan owner's manuals state that certain CRs may not be used with access LAs. After installation, do not place heavy items on the seatback or headrest.
- Tether anchor retrofit:** Some pre-MY00 vehicles, including those listed with a TA point noted, may be retrofitted with TAs. See Chapter 6 for brand/model-specific details from Nissan, as well as general advice for retrofitting vehicles with TAs.
- Snug Kids™ safety seat fit guide:** Nissan lists CR models that fit well in each of its current models at [www.nissanusa.com/snugkids](http://www.nissanusa.com/snugkids). In Canada, go to [www.nissan.ca/en/owners/my-nissan/child-safety](http://www.nissan.ca/en/owners/my-nissan/child-safety). If the harness weight limit for the CR mode is 40 pounds or less, only LATCH installation is checked in vehicle positions that have LATCH.
- Seating position limitations:** Some Nissan owner's manuals and Snug Kids guides recommend against certain CR installations in certain seating positions or rows. However, although installation in these situations might be relatively difficult or impossible (depending on the CR), Nissan will allow the installation if it has been checked and approved by a CPST. A note in the model listings that follow indicates when such recommendations are stated in a model's Snug Kids guide or owner's manual.

**KEY:** LATCH—Factory-installed lower & tether anchors TA—Factory-installed TA  
None—No LATCH available (factory-installed/retrofit) TA

**Vehicles with one or two rows—Nissan**

MODEL	BODY	YEAR	SECOND ROW	
			CENTER	OUTBOARD
200 SX	2-door	95-99	TA point	(2)
240SX (S13)	Fastback & Coupe	89-98	N/A	(2)
300ZX (Z32)	2+2 Coupe	91-96	N/A	(2)
350Z	Sport Coupe	03-Mid-06	N/A	N/A
		Mid-06 to present		



**Advanced air bag (AAB) suppression system:** AAB technology on the passenger side of some models CAN be affected by pressure/force against the front seatback or upward from under the front seat. Check the front passenger air bag status light. Owner's manuals for equipped vehicles warn against pushing/pulling on the seatback pocket or placing loads heavier than 2.2 lbs. (1kg) in the seatback pocket or on the seatback or headrest. Also, do not place items behind or under the passenger seat that press into the seat.

- How air bag sensor type is affected by pressure on or under seatback.
- Driver- and/or passenger-side
- See air bag section of OM for more information.



**Coming down the home stretch, gang!**

Next: Manufacturer/brand-specific bullets

# Nissan's seatback angle bullet

U.S. 800-647-7261 [www.nissanusa.com](http://www.nissanusa.com)

Nissan

Canada 800-387-0122 [www.nissan.ca](http://www.nissan.ca)

**Bullet Section:** Follow the bulleted guidance here for all models of this brand (with any exceptions noted). Also, check model-specific details in the tables that follow.

- **Maximum child weight—LATCH system (CRs without a weight-limit label):**
  - MY14 and newer: 65 pounds (29.5 kg) minus the CR weight. See Appendix A for the weight of the CR being installed. If the child-plus-CR weight is greater than 65 lbs. (29.5 kg), use a seat belt (and tether, if appropriate) to install the CR.
  - MY13 and older: Follow weight given by the CR manufacturer.
- **Maximum child weight—factory-installed or retrofitted TA when used with the seat belt:** Follow weight given by the CR manufacturer.
- **Shoulder belt entanglement:** Nissan has not provided steps to reduce this risk.
- **Advanced air bag (AAB) suppression system:** AAB technology on the passenger side of some models CAN be affected by pressure/force against the front seatback or upward from under the front seat. Check the front passenger air bag status light. Owner's manuals for equipped vehicles warn against pushing/pulling on the seatback pocket or placing loads heavier than 2.2 lbs. (1kg) in the seatback pocket or on the seatback headrest. Also, do not place items under the passenger seat that touch the seat.
- **Tethering CRs to a seat belt from a vehicle:** (However, see exception.)
- **Center position installation using LAs with nonstandard spacing:** MAY NOT borrow the inner LAs from standard outboard LATCH positions to install a CR in the center. Use the seat belt (and tether, if appropriate) instead.
- **Head restraints (HRs):** **Nonadjustable HRs:** Route a 2-point (single-strap) tether over the center of the HR and a 3-point (V-shaped) tether around either side. **Adjustable HRs:** HR may be moved upward (and, if removable, removed and securely stowed) to accommodate a CR. Replace a removed HR when the CR is uninstalled. Some models have specific HR information in the notes that follow.
- **Use of LATCH with belt-positioning boosters:** MAY attach a BPB to LAs and/or TA if doing so does not interfere with proper seat belt use and is allowed by the CR manufacturer.
- **Cargo covers:** DO NOT allow cargo covers or items in the cargo area to contact attached tethers. If the cover interferes with the tether, remove and store the cover while the tether is being used.
- **Tether anchor retrofit:** Some pre-MY00 vehicles, including those listed with a TA point noted, may be retrofitted with TAs. See Chapter 6 for brand-/model-specific details from Nissan, as well as general advice for retrofitting vehicles with TAs.
- **Snug Kids™ safety seat fit guide:** Nissan lists CR models that fit well in each of its current models at [www.nissanusa.com/snugkids](http://www.nissanusa.com/snugkids). In Canada, go to [www.nissan.ca/en/owners/my-nissan/child-safety](http://www.nissan.ca/en/owners/my-nissan/child-safety). If the harness weight limit for the CR mode is 40 pounds or less, only LATCH installation is checked in vehicle positions that have LATCH.
- **Seating position limitations:** Some Nissan owner's manuals and Snug Kids guides recommend against certain CR installations in certain seating positions or rows. However, although installation in these situations might be relatively difficult or impossible (depending on the CR), Nissan will allow the installation if it has been checked and approved by a CPST. A note in the model listings that follow indicates when such recommendations are stated in a model's Snug Kids guide or owner's manual; be sure to note details like CR mode and seating position/row.
- **Inspection after a crash:** After a crash, LATCH components should be inspected for damage; the dealer to repair or replace parts.

KEY: LATCH—Factory-installed tether anchor LA—Lower anchor OB—Outboard MY—Model year CR—Child restraint None—No LATCH

Vehicles with one or two TA points

MODEL	BODY	YEAR	SEATING POSITION	
			CENTER	OUTBOARD
200 SX	2-door	95-99	TA point	
240SX (S13)	Fastback & Coupe	89-98	N/A	(2) TA points
300ZX (Z32)	2+2 Coupe	91-96	N/A	(2) TA points
350Z	Sport Coupe	03-Mid-06	N/A	(2) TA points are 8-mm weld nuts on cargo floor; see "Tether anchor retrofit" bullet.
		Mid-06 to	N/A	(2) TA points are 8-mm weld nuts on cargo floor; see "Tether anchor retrofit" bullet.

• **Seatback Angle:** Some owner's manuals state to recline the seatback to access LAs. After attaching the CR's LA connectors, put seatback in its upright position to complete CR installation.

- Bullets that allow manufacturer to clarify OM information.

# Nissan's after a crash bullet

## Nissan

U.S. 800-647-7261 [www.nissanusa.com](http://www.nissanusa.com)

Canada 800-387-0122 [www.nissan.ca](http://www.nissan.ca)

**Bullet Section:** Follow the bulleted guidance here for all models of this brand (with any exceptions noted). Also, check model-specific details in the tables that follow.

- **Maximum child weight—LATCH system (CRs without a weight-limit label):**
  - MY14 and newer: 65 pounds (29.5 kg) minus the CR weight. See Appendix A for the weight of the CR being installed. If the child-plus-CR weight is greater than 65 lbs. (29.5 kg), use a seat belt (and tether, if appropriate) to install the CR.
  - MY13 and older: Follow weight given by the CR manufacturer.
- **Maximum child weight—factory-installed or retrofitted TA when used with the seat belt:** Follow weight given by the CR manufacturer.
- **Shoulder belt entanglement:** Nissan has not provided steps to reduce this risk.
- **Advanced air bag (AAB) suppression system:** AAB technology on the passenger side of some models CAN be affected by pressure/force against the front seatback or upward from under the front seat. Check the front passenger air bag status light. Owner's manuals for equipped vehicles warn against pushing/pulling on the seatback pocket or placing loads heavier than 2.2 lbs. (1kg) in the seatback pocket or on the seatback or headrest. Also, do not place items on or under the passenger seat that could interfere with the seat.
- **Tethering CRs to the seat belt:** Some CRs require a seat belt for installation. (However, see exceptions.)
- **Center position installation using LAs with nonstandard spacing:** MAY NOT borrow the inner LAs from standard outboard LATCH positions to install a CR in the center. Use the seat belt (and tether, if appropriate) instead.
- **Head restraints (HRs):** Nonadjustable HRs: Route a 2-point (single-strap) tether over the center of the HR and a 3-point (V-shaped) tether around either side. Adjustable HRs: HR may be moved upward (and, if removable, removed and securely stowed) to accommodate a CR. Replace a removed HR when the CR is uninstalled. Some models have specific HR information in the notes that follow.
- **Use of LATCH with belt-positioning boosters:** MAY attach a BPB to LAs and/or TA if doing so does not interfere with proper seat belt use and is allowed by the CR manufacturer.
- **Cargo covers:** DO NOT allow cargo covers or items in the cargo area to contact attached tethers. If the cover interferes with the tether, remove and store the cover while the tether is being used.
- **Seatback Angle:** Some owner's manuals state to recline the seatback to access LAs. After attaching the CR's LA connectors, put seatback in its upright position to complete CR installation.
- **Tether anchor retrofit:** Some pre-MY00 vehicles, including those listed with a TA point noted, may be retrofitted with TAs. See Chapter 6 for brand-/model-specific details from Nissan, as well as general advice for retrofitting vehicles with TAs.
- **Snug Kids™ safety seat fit guide:** Nissan lists CR models that fit well in each of its current models at [www.nissanusa.com/snugkids](http://www.nissanusa.com/snugkids). In Canada, go to [www.nissan.ca/en/owners/my-nissan/child-safety](http://www.nissan.ca/en/owners/my-nissan/child-safety). If the harness weight limit for the CR mode is 40 pounds or less, only LATCH installation is checked in vehicle positions that have LATCH.
- **Seating position limitations:** Some Nissan owner's manuals and Snug Kids guides recommend against certain CR installations in certain seating positions or rows. However, although installation in these situations might be relatively difficult or impossible (depending on the CR), Nissan will allow the installation if it has been checked and approved by a CPST. A note in the model listings that follow indicates when such recommendations are stated in a model's Snug Kids guide or owner's manual; be sure to note details like CR mode and seating position/row.

- Bullets that allow manufacturer to clarify OM information.

KEY: LATCH—Factory-installed tether anchor, LA—Lower anchor, OB—Outboard, MY—Model year, CR—Child restraint, TA point

### Vehicles with one row—Nissan

MODEL	BODY	YEAR	SECOND ROW		NOTES
			CENTER	OUTBOARD	
200 SX	2-door	95-99	TA point	(2) TA points	(3) TA points are 8-mm weld nuts on rear filler panel; see "Tether anchor retrofit" bullet.
240SX (S13)	Fastback & Coupe	89-98	N/A	(2) TA points	(2) TA points are 8-mm weld nuts on cargo floor; see "Tether anchor retrofit" bullet.
300ZX (Z32)	2+2 Coupe	91-96	N/A	(2) TA points	(2) TA points are 8-mm weld nuts on cargo floor; see "Tether anchor retrofit" bullet.
350Z	Sport Coupe	03-Mid-06	N/A	N/A	Front Seat: TA on luggage area floor. Passenger-Side Air Bag: No on-off switch; do NOT transport children 12 and under unless an air bag on-off switch is installed and set to "off."
		Mid-06 to			Front Seat: TA on luggage area floor. Passenger-Side Air Bag: No on-off switch. Rear-facing CRs MAY NOT be installed; forward-facing CRs may be installed using a seat belt and tether with seat moved to the

• **Inspection after a crash: After a crash, LATCH components should be inspected for damage; see dealer to repair or replace parts.**

# Nissan's Snug Kids bullet

## Nissan

U.S. 800-647-7261 [www.nissanusa.com](http://www.nissanusa.com)

Canada 800-387-0122 [www.nissan.ca](http://www.nissan.ca)

**Bullet Section:** Follow the bulleted guidance here for all models of this brand (with any exceptions noted). Also, check model-specific details in the tables that follow.

- **Maximum child weight—LATCH system (CRs without a weight-limit label):**
  - MY14 and newer: 65 pounds (29.5 kg) minus the CR weight. See Appendix A for the weight of the CR being installed. If the child-plus-CR weight is greater than 65 lbs. (29.5 kg), use a seat belt (and tether, if appropriate) to install the CR.
  - MY13 and older: Follow weight given by the CR manufacturer.
- **Maximum child weight—factory-installed or retrofitted TA when used with the seat belt:** Follow weight given by the CR manufacturer.
- **Shoulder belt entanglement:** Nissan has not provided steps to reduce this risk.
- **Advanced air bag (AAB) suppression system:** AAB technology on the passenger side of some models CAN be affected by pressure/force against the front seatback or upward from under the front seat. Check the front passenger air bag status light. Owner's manuals for equipped vehicles warn against pushing/pulling on the seatback pocket or placing loads heavier than 2.2 lbs. (1kg) in the seatback pocket or on the seatback or headrest. Also, do not place items behind or under the passenger seat that press into the seat.
- **Tethering CRs to a seat belt:** MAY NOT use a seat belt from the row behind a CR as a TA. (However, see MY97-99 Quest notes for an exception.)
- **Center position installation using LAs with nonstandard spacing:** MAY NOT borrow the inner LAs from standard outboard LATCH positions to install a CR in the center. Use the seat belt (and tether, if appropriate) instead.
- **Head restraints (HRs): Nonadjustable HRs:** Route a 2-point (single-strap) tether around the center of the HR and a 3-point tether around either side. A 3-point tether may be moved upward and removed and replaced with a 2-point tether when the CR manufacturer's instructions accommodate a 2-point tether. CR-specific HR instructions apply.
- **Use of LATCH with CPST:** MAY attach a CPST to a CR. CPST does not interfere with LATCH installation if allowed by the CR manufacturer.
- **Cargo covers:** DO NOT use cargo covers or items in the cargo area that contact attached tethers. If the cover interferes with the tether, remove and store the cover while the tether is being used.
- **Seatback Angle:** Some owner's manuals state to recline the seatback to access LAs. After attaching the CR to the LAs, put seatback in its upright position to complete CR installation.
- **Tether anchor retrofit:** Some pre-MY00 vehicles, including those listed with a TA point noted, may be retrofitted with TAs. See Chapter 6 for brand-/model-specific details from Nissan, as well as general advice for retrofitting vehicles with TAs.
- **Seating position limitations:** Some Nissan owner's manuals and Snug Kids guides recommend against certain CR installations in certain seating positions or rows. However, although installation in these situations might be relatively difficult or impossible (depending on the CR), Nissan will allow the installation if it has been checked and approved by a CPST. A note in the model listings that follow indicates when such recommendations are stated in a model's Snug Kids guide or owner's manual; be sure to note details like CR mode and seating position/row.



• **Snug Kids™ safety seat fit guide:** Nissan lists CR models that fit well in each of its current models at [www.nissanusa.com/snugkids](http://www.nissanusa.com/snugkids). In Canada, go to [www.nissan.ca/en/owners/my-nissan/child-safety](http://www.nissan.ca/en/owners/my-nissan/child-safety). If the harness weight limit for the CR mode is 40 pounds or less, only LATCH installation is checked in vehicle positions that have LATCH.

**KEY:** LATCH—Factory-installed lower & tether anchors TA—Factory-installed TA None—No LATCH available (factory-installed/retrofit) TA

### Vehicles with one or two rows—Nissan

MODEL	BODY	YEAR	SECOND ROW	
			CENTER	OUTBOARD
200 SX	2-door	95-99	TA point	(2)
240SX (S13)	Fastback & Coupe	89-98	N/A	(2)
300ZX (Z32)	2+2 Coupe	91-96	N/A	(2) TA points
350Z	Sport Coupe	03-Mid-06	N/A	N/A
		Mid-06 to	N/A	N/A

**Front Seat:** TA on luggage area floor.  
**Passenger-Side Air Bag:** No on-off switch; do NOT transport children 12 and under unless an air bag on-off switch is installed and set to "off."  
**Front Seat:** TA on luggage area floor.  
**Passenger-Side Air Bag:** No on-off switch. Rear-facing CRs MAY NOT be installed; forward-facing CRs may be installed using a seat belt and tether with seat moved to the

- Bullets that address a program or situation specific to that manufacturer/brand.

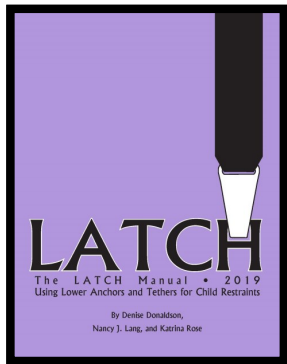


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## **SRN SUPPORT**

Newsletter articles and other resources.



## **LATCH GALLERY**

A place to share photos of interesting lower and tether anchor situations.



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