

Car Safety Seats: A Guide for Families 2011

One of the most important jobs you have as a parent is keeping your child safe when riding in a vehicle. Each year thousands of young children are killed or injured in car crashes. Proper use of car safety seats helps keep children safe. But with so many different car safety seats on the market, it's no wonder many parents find this overwhelming.

The type of seat your child needs depends on several things, including your child's size and the type of vehicle you have. The following information from the American Academy of Pediatrics (AAP) offers guidance on choosing the most appropriate car safety seat for your child.

Note: The chart on page 3 is a quick guide on where to start your search; however, it's important to read more about the features and how to use your car safety seat. Additional safety tips are on pages 14 to 16; a list of car safety seats is on pages 17 to 30.

Infants and toddlers—rear-facing

The AAP recommends that all infants should ride rear-facing starting with their first ride home from the hospital. All infants and toddlers should ride in a **Rear-Facing Car Safety Seat** until they are 2 years of age or until they reach the highest weight or height allowed by their car safety seat's manufacturer.

Types of rear-facing car safety seats

There are 3 types of rear-facing car safety seats: infantonly seats, convertible seats, and 3-in-1 seats.

When children reach the highest weight or length allowed by the manufacturer of their infant-only seat, they should continue to ride rear-facing in a convertible seat or 3-in-1 seat.

0
2
Ξ
glanc
ð
G
g
at
14
seats
Q.
5
5
ų į
Ŋ
5
f car s
4
of
S
lypes
2
$\mathbf{\Sigma}$

Age Group	Type of Seat	General Guidelines		Pages
Infants/toddlers	Infant seats and rear-facing convertible seats	All infants and toddlers should ride in a Rear-Facing Car Safety Seat until they are 2 years of age <u>or</u> until they reach the highest weight or height allowed by their car safety seat's manufacturer.	hey reach the	2-7
Toddlers/ preschoolers	Convertible seats and forward-facing seats with harnesses	All children 2 years or older, or those younger than 2 years who have outgrown the rear-facing weight or height limit for their car safety seat, should use a Forward-Facing Car Safety Seat with a harness for as long as possible, up to the high- est weight or height allowed by their car safety seat's manufacturer.	ght limit for up to the high-	7-10
School-aged children	Booster seats	All children whose weight or height is above the forward-facing limit for their car safety seat should use a Belt-Positioning Booster Seat until the vehicle seat belt fits properly, typically when they have reached 4 feet 9 inches in height and are between 8 and 12 years of age.	t-Positioning ght and are	11-12
Older children	Seat belts	When children are old enough and large enough to use the vehicle seat belt alone, they should always use Lap and Shoulder Seat Belts for optimal protection. All children younger than 13 years should be restrained in the Rear Seats of vehicles for optimal protection.	ap and	13



Figure 1. Infant-only car safety seat.

- 1. Infant-only seats
 - Are used for infants up to 22 to 35 pounds, depending on the model.
 - Are small and have carrying handles (and sometimes come as part of a stroller system).
 - May come with a base that can be left in the car. The seat clicks into and out of the base so you don't have to install the seat each time you use it. Parents can buy more than one base for additional vehicles.
 - Are used only for travel (not for positioning outside the vehicle).
- 2. Convertible seats (used rear-facing)
 - Can be used rear-facing, then "converted" to forward-facing for older children. This means the seat can be used longer by your child. They are bulkier than infant seats, however, and do not come with carrying handles or separate bases.
 - May have higher rear-facing weight (30-40 pounds) and height limits than infant-only seats, which make them ideal for bigger babies.
 - Usually have a 5-point harness that attaches at the shoulders, at the hips, and between the legs. Older convertible seats may have an overhead shield—a padded tray-like shield that swings down over the child.
- 3. 3-in-1 seats (used rear-facing)
 - Can be used rear-facing, forward-facing, or as a belt-positioning booster. This means the seat may be used longer by your child.

- Are often bigger in size so adequate space within the vehicle when rear-facing should be determined.
- Do not have the convenience of a carrying handle or a separate base; however, they may have higher rear-facing weight (35-40 pounds) and height limits than infant-only seats, which make them ideal for bigger babies.

Installation tips for rear-facing seats

When using a rear-facing seat, keep the following in mind:

- Place the harnesses in your rear-facing seat in slots that are at or below your baby's shoulders.
- Ensure that the harness is snug and that the harness clip is positioned at the mid-chest level.
- Make sure the car safety seat is installed tightly in the vehicle. If you can move the seat at the belt path more than an inch side to side or front to back, it's not tight enough.
- Never place a rear-facing car safety seat in the front seat of a vehicle that has an active front passenger air bag. If the air bag inflates, it will hit the back of the car safety seat, right where your baby's head is, and could cause serious injury or death.
- Be sure you know what kind of seat belts your vehicle has. Some seat belts need locking clips to keep the belt locked into position. Locking clips come with most new car safety seats. If you're not sure, check the owner's manual that came with your vehicle. Locking clips are not needed in most newer vehicles, and some seats have built-in lockoffs to lock the belt.
- If you are using a convertible or 3-in-1 seat in the rear-facing position, make sure the seat belt is routed through the correct belt path. Check the instructions that came with the car safety seat to be sure.
- If your vehicle was made after 2002, it may come with the LATCH system, which is used to secure car safety seats. See page 7 for information on using LATCH.
- Make sure the seat is at the correct angle so your infant's head does not flop forward. Many seats have angle indicators or adjusters that can help prevent this. If your seat does not have an angle adjuster, tilt the car safety seat back by putting a

rolled towel or other firm padding (such as a pool noodle) under the base near the point where the back and bottom of the vehicle seat meet.

• Still having trouble? There may be a certified child passenger safety (CPS) technician in your area who can help. If you need installation help, see page 15 for information on how to locate a CPS technician.

Common questions

- Q: What if my baby's feet touch the back of the vehicle seat?
- A: Your child can bend his legs easily and will be comfortable in a convertible seat. Injuries to the legs are rare for children facing the rear.
- Q: What do I do if my baby slouches down or to the side in his car safety seat?
- A: Blanket rolls may be placed on both sides of the infant and a small diaper or blanket between the crotch strap and the infant. Do not place padding under or behind the infant or use any sort of car safety seat insert unless it came with the seat or was made by the manufacturer of the seat.
- Q: Can I adjust the straps when my baby is wearing thicker clothing, like in the winter?
- A: Yes, but make sure the harnesses are still snug. Also remember to tighten the straps again after the thicker clothes are no longer needed. Ideally, dress your baby in thinner layers instead of a bulky coat or snowsuit, and tuck a blanket around your baby over the buckled harness straps if needed.

Q: Are rear-facing convertible seats OK to use for preemies?

A: Premature infants should be tested while still in the hospital to make sure they can ride safely in a reclined position. Babies who need to lie flat during travel should ride in a crash-tested car bed. Very small infants who can ride safely in a reclined position usually fit better in infant-only seats; however, if you need to use a convertible seat, choose one without a tray-shield harness. The shields often are too big and too far from the body to fit correctly and the child's face could hit the shield in a crash.



Figure 2. Car safety seat with a small cloth between crotch strap and infant, retainer clip positioned at the midpoint of the infant's chest, and blanket rolls on both sides of the infant.

Q: What is LATCH?

LATCH (Lower Anchors and Tethers for Children) is an attachment system for car safety seats. Lower anchors can be used instead of the seat belt to install the seat and may be easier to use in some cars. The top tether improves the safety provided by the seat and is important to use for all forward-facing seats. Read the vehicle owner's manual and the car safety seat instructions for weight limits for lower anchors and top tethers.

Vehicles with the LATCH system have anchors located in the back seat. Car safety seats that come with LATCH have attachments that fasten to these anchors. Nearly all passenger vehicles and all car safety seats made on or after September 1, 2002, come with LATCH. However, unless both your vehicle and the car safety seat have the lower anchor system, you will still need to use seat belts to install the car safety seat.

Toddlers and preschoolers forward-facing

All children 2 years or older, or those younger than 2 years who have outgrown the rear-facing weight or height limit for their car safety seat, should use a Forward-Facing Car Safety Seat with a harness for as

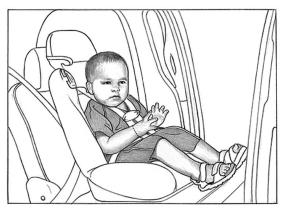


Figure 3. Forward-facing car safety seat.

long as possible, up to the highest weight or height allowed by their car safety seat's manufacturer. It is best for children to ride in a seat with a harness as long as possible, at least to 4 years of age. If your child outgrows his seat before reaching 4 years of age, consider using a seat with a harness approved for higher weights and heights.

Types of car safety restraints

There are 5 types of car safety restraints that can be used forward-facing.

- 1. Convertible seats—Seats that "convert" from rear-facing to forward-facing seats. These include 3-in-1 seats.
- Forward-facing only—These seats can be used forward-facing with a harness for children who weigh up to 40 to 80 pounds (depending on the model).
- Combination seat with harness—These seats can be used forward-facing with a harness for children who weigh up to 40 to 80 pounds (depending on the model) or without the harness as a booster (up to 80-100 pounds).
- Built-in seats—Some vehicles come with forwardfacing seats built in. Weight and height limits vary. Read your vehicle owner's manual or contact the manufacturer for details about how to use these seats.
- 5. Travel vests—These can be worn by children between 20 and 168 pounds and can be an alternative to traditional forward-facing seats. They are useful for when a vehicle has lap-only seat belts in the rear or for children whose weight has exceeded that allowed by car safety seats. These vests may require use of a top tether.

Installation tips for forward-facing seats

Make sure the car safety seat is installed tightly in the vehicle and that the harness fits the child snugly.

To switch a convertible or 3-in-1 seat from rear-facing to forward-facing

- Move the shoulder straps to the slots that are at or above your child's shoulders. On some convertible seats, the top harness slots must be used when facing forward. Check the instructions that came with the seat to be sure.
- You may have to adjust the recline angle of the seat. Check the instructions to be sure.
- Make sure the seat belt runs through the forwardfacing belt path. When making these changes, always follow the car safety seat instructions.
- If your vehicle was made after 2002, it should come with the LATCH system, which is used to secure car safety seats. See "What is LATCH?" on page 7.

A tether is a strap that attaches to the top of a car safety seat and to an anchor point in your vehicle (see your vehicle owner's manual to find where the tether anchors are in your vehicle). Tethers give important extra protection by keeping the car safety seat and the child's head from moving too far forward in a crash or sudden stop. All new cars, minivans, and light trucks have been required to have tether anchors since September 2000. New forward-facing car safety seats come with tethers. Check the car safety seat instructions and vehicle owner's manual for information about the top weight limit and locations of the tether anchors.

Common questions

- Q: What if I drive more children than can be buckled safely in the back seat?
- A: It's best to avoid this, especially if your vehicle has air bags in the front seat. All children younger than 13 years should ride in the back seat. If absolutely necessary, a child in a forward-facing car safety seat with a harness may be the best choice to ride in front. Just be sure the vehicle seat is moved as far back away from the dashboard (and the air bag) as possible.

- Q: What do I need to know if my child will be driven by someone else, such as for child care or school?
- A: If your child is being driven by someone else, make sure
 - The car safety seat your child will be using fits properly in the vehicle used for transport.
 - The car safety seat being used is appropriate for the age and size of your child.
 - The person in charge of transporting your child knows how to install and use the car safety seat correctly.

Child care programs and schools should have written guidelines for transporting children. These guidelines should include the following:

- All drivers must have a valid driver's license. In some states, school bus drivers need to have a special type of license.
- Staff-to-child ratios for transport should meet or exceed those required for the classroom.
- Every child should be supervised during transport, either by school staff or a parent volunteer, so the driver can focus on driving.
- School staff, teachers, and drivers should know what do to in an emergency, know how to properly use car safety seats and seat belts, and be aware of other safety requirements.

Q: Should my child ride in a car safety seat on an airplane?

A: Most infant, convertible, and forward-facing seats can be used on airplanes, but booster seats and travel vests cannot. The Federal Aviation Administration (FAA) and the AAP recommend that when flying, children should be securely fastened in certified child restraints until 4 years of age, and then should be secured with the airplane seat belts. This will help keep them safe during takeoff and landing or in case of turbulence. Check the label on your car safety seat or call the car safety seat manufacturer before you travel to see if your seat is certified for use on an airplane. You can also consider using a restraint made only for use on airplanes and approved by the FAA.

School-aged children booster seats

Booster seats are for older children who have outgrown their forward-facing car safety seats. All children whose weight or height is above the forwardfacing limit for their car safety seat should use a **Belt-Positioning Booster Seat** until the vehicle seat belt fits properly, typically when they have reached 4 feet 9 inches in height and are between 8 and 12 years of age. The owner's manual that comes with your car safety seat will tell you the height and weight limits for the seat. As a general guideline, a child has outgrown his forward-facing seat when any one of the following is true:

- He reaches the top weight or height allowed for his seat with a harness. (These limits are listed on the seat and also included in the instruction booklet.)
- His shoulders are above the top harness slots.
- His ears have reached the top of the seat.

Types of booster seats

Booster seats are designed to raise the child up so that the lap and shoulder seat belts fit properly. High-back and backless booster seats are available. They do not come with harness straps but are used with the lap and shoulder seat belts in your vehicle, the same way an adult rides. Booster seats should be used until your child can correctly fit in lap and shoulder seat belts. Booster seats typically include a plastic clip or guide to help ensure the correct use of the vehicle lap and shoulder belts. See the instruction

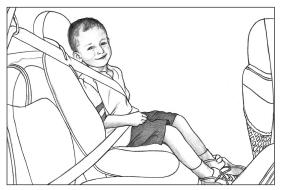


Figure 4. Belt-positioning booster seat.

booklet that came with the booster seat for directions on how to use the guide or clip.

Installation tips for booster seats

Booster seats must be used with a lap and shoulder belt. When using a booster seat, make sure

- The lap belt lies low and snug across your child's upper thighs.
- The shoulder belt crosses the middle of your child's chest and shoulder.

Common questions

- Q: What if my car only has lap belts in the back seat?
- A: Lap belts work fine with infant-only, convertible, and forward-facing seats. If your car only has lap belts, use a forward-facing car safety seat with a harness and higher weight limits. Other options are
 - Check to see if shoulder belts can be installed in your vehicle.
 - Use a travel vest (some can be used with lap belts).
 - Consider buying another car with lap and shoulder belts in the back seat.

Q: Is there a difference between high-back and backless boosters?

A: Both types of boosters are designed to raise your child so the seat belts fit properly and both will reduce your child's risk of injury in a crash. Highback boosters are useful in vehicles that do not have head rests or have low seat backs. Many seats that look like high-back boosters are actually combination seats. They come with harnesses that can be used for smaller children and can then be removed for older children. Backless boosters are usually less expensive and are easier to move from vehicle to vehicle. Backless boosters can be safely used in vehicles with headrests and high seat backs.

Older children—seat belts

Seat belts are made for adults. Your child should stay in a booster seat until adult seat belts fit correctly (usually when the child reaches about 4 feet 9 inches in height and is between 8 and 12 years of age). When children are old enough and large enough to use the vehicle seat belt alone, they should always use **Lap and Shoulder Seat Belts** for optimal protection.

<u>Using a seat belt</u>

- 1. An adult seat belt fits correctly when
 - The shoulder belt lies across the middle of the chest and shoulder, not the neck or throat.
 - The lap belt is low and snug across the upper thighs, not the belly.
 - Your child is tall enough to sit against the vehicle seat back with her knees bent without slouching and can stay in this position comfortably throughout the trip.
- 2. Other points to keep in mind when using seat belts include
 - Make sure your child does not tuck the shoulder belt under her arm or behind her back. This leaves the upper body unprotected, putting your child at risk of severe injury in a crash or with sudden braking.
 - Never allow anyone to "share" seat belts. All passengers must have their own car safety seats or seat belts.

Common Questions

- Q: I've seen products that say they can help make the seat belt fit better. Should we get one of these?
- A: No, these products should not be used. In fact, they may actually interfere with proper seat belt fit by causing the lap belt to ride too high on the stomach and making the shoulder belt too loose. They can even damage the seat belt. This rule applies to car safety seats too; do not use any extra products unless they came with the seat. There are no federal safety standards for these products and until there are, the AAP does not recommend they be used. As long as children are riding in the correct restraint for their size, they should not need to use any additional devices.

Shopping for car safety seats

When shopping for a car safety seat, keep the following tips in mind:

- No one seat is the "best" or "safest." The best seat is the one that fits your child's size, is correctly installed, fits well in your vehicle, and is used properly every time you drive.
- Don't decide by price alone. A higher price does not mean the seat is safer or easier to use.
- Avoid used seats if you don't know the seat's history. Never use a car safety seat that
 - Is too old. Look on the label for the date it was made. Check with the manufacturer to find out how long it recommends using the seat.
 - Has any visible cracks on it.
 - Does not have a label with the date of manufacture and model number. Without these, you cannot check to see if the seat has been recalled.
 - Does not come with instructions. You need them to know how to use the seat.
 - Is missing parts. Used car safety seats often come without important parts. Check with the manufacturer to make sure you can get the right parts.
 - Was recalled. You can find out by calling the manufacturer or by contacting the National Highway Traffic Safety Administration (NHTSA) Vehicle Safety Hotline at 888/327-4236. You can also visit the NHTSA Web site at www.safercar.gov.
- Do not use seats that have been in a moderate or severe crash. Seats that were in a minor crash may still be safe to use, but some car safety seat manufacturers recommend replacing the seat after any crash, even a minor one. The NHTSA considers a crash minor if all of the following are true:
 - The vehicle could be driven away from the crash.
 - The vehicle door closest to the car safety seat was not damaged.
 - No one in the vehicle was injured.
 - The air bags did not go off.
 - You can't see any damage to the car safety seat.

If you are unsure, call the manufacturer of the seat. See "Manufacturer phone numbers and Web sites" on page 31 for manufacturer contact information.

About air bags

<u>Front air bags</u>

All new cars come with front air bags. When used with seat belts, air bags work very well to protect teenagers and adults. However, air bags can be very dangerous to children, particularly those riding in rearfacing car safety seats, and to preschool and young school-aged children who are not properly restrained. If your vehicle has a front passenger air bag, infants in rear-facing seats must ride in the back seat. Even in a relatively low-speed crash, the air bag can inflate, strike the car safety seat, and cause serious brain injury and death.

Vehicles with no back seat or a back seat that is not made for passengers are not the best choice for traveling with small children. However, the air bag can be turned off in some of these vehicles if the front seat is needed for a child passenger. See your vehicle owner's manual for more information.

Side air bags improve safety for adults in side-impact crashes. Read your vehicle owner's manual for more information about the air bags in your vehicle. Read your car safety seat manual and the vehicle owner's manual for guidance on placing the seat next to a side air bag.

If you need installation help

If you have questions or need help installing your car safety seat, find a certified CPS technician. Lists of certified CPS technicians and child seat fitting stations are available on the following Web sites:

NHTSA

www.nhtsa.gov (or call NHTSA Vehicle Safety Hotline at 888/327-4236)

SeatCheck

www.seatcheck.org (or call 866/SEATCHECK [866/732-8243])

National Child Passenger Safety Certified Technicians http://cert.safekids.org/ (or call 877/366-8154) This site provides information in Spanish and also provides a list of CPS technicians with enhanced training in protection of children with special needs.

Important reminders

- 1. Be a good role model. Make sure you always wear your seat belt. This will help your child form a lifelong habit of buckling up.
- Never leave your child alone in or around cars. Any of the following can happen when a child is left alone in or around a vehicle:
 - He can die of heat stroke because temperatures can reach deadly levels in minutes.
 - He can be strangled by power windows, retracting seat belts, sunroofs, or accessories.
 - He can knock the vehicle into gear, setting it in motion.
 - He can be backed over when the vehicle backs up.
 - He can become trapped in the trunk of the vehicle.
- 3. Always read and follow the manufacturer's instructions. If you do not have the manufacturer's instructions for your car safety seat, write or call the company's customer service department. They will ask you for the model number, name of seat, and date of manufacture. The manufacturer's address and phone number are on the label on the seat. Also be sure to follow the instructions in your vehicle owner's manual about using car safety seats. Some manufacturers' instructions may be available on their Web sites.

The NHTSA has put together the car safety seat Ease of Use Ratings to educate parents and caregivers about car safety seat features and to assist them in finding the appropriate seat for their needs. You can view this list at www.nhtsa.gov/Safety/Ease-of-Use.

Although the American Academy of Pediatrics (AAP) is not a testing or standard-setting organization, this guide sets forth the AAP recommendations based on the peer-reviewed literature available at the time of its publication, and sets forth some of the factors that parents should consider before selecting and using a car safety seat.

The appearance of the name American Academy of Pediatrics does not constitute a guarantee or endorsement of the products listed or the claims made. Phone numbers and Web site addresses are as current as possible, but may change at any time.

The information contained in this publication should not be used as a substitute for the medical care and advice of your pediatrician. There may be variations in treatment that your pediatrician may recommend based on individual facts and circumstances.

Prices are approximate and may vary.

Infant-only seats (Manufacturers' names are boldfaced.)	faced.)			
Name	Harness Type	Rear-Facing Weight Limits	Height Limits	Price
Baby Trend EZ-Loc, EZ-Flex Loc, Flex-Loc, Latch-Loc, Fixed Back, Adjustable Back	5-point	5-30 pounds	Up to 30"	\$79.99-\$129.99
Britax Chaperone	5-point	4-30 pounds	Up to 32"	\$229.99
Chicco KeyFit Infant Car Seat, only sold as a travel system	5-point	4-22 pounds	Up to 30"	\$300
Chicco KeyFit 30 Infant Car Seat	5-point	4-30 pounds	Up to 30"	\$180-\$190
Combi Navette 22, available only through Child Source	5-point	Birth-22 pounds	Up to 29"	\$65
Combi Shuttle 33	5-point	Birth-33 pounds	Up to 33"	\$170-\$180
Combi Shuttle 35	5-point	Birth-35 pounds	Up to 33"	\$199
Cosco Comfy Carry	5-point	4-22 pounds	Up to 29"	\$59
CYBEX Aton	5-point	4-30 pounds	Up to 30"	\$189.95
Dream on Me/Mia Moda Certo Infant Car Seat	5-point	4-22 pounds	Up to 29"	\$119-\$139
Eddie Bauer Deluxe Infant Car Seat	5-point	5-22 pounds	19"-29"	\$100
Eventlo Discovery 5	5-point	5-22 pounds	19"-29"	\$50-\$60

С
0
n
-
• H
±
<u> </u>
<u></u>
0
S
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
seat
Ξ
Ŷ
نب
G
يتبه

Name	Harness Type	уре	Rear-Facing Weight Limits	Height Limits	Price
Evenflo Embrace	5-point	S	5-22 pounds	19"-29"	\$80-\$100
Eventio Secure Ride 35	5-point	5	5-35 pounds	19"-32"	\$150
The First Years Via	5-point	Δ	4-22 pounds	Up to 30"	\$139.99
The First Years Via 35	5-point		4-35 pounds	Up to 30"	\$169.99
Graco SnugRide	5-point		5-22 pounds	Up to 29"	\$89-\$109
Graco SnugRide 30	5-point	1 6	4-30 pounds	Up to 30"	\$119-\$139
Graco SnugRide 35	5-point	D	5-35 pounds	Up to 32"	\$149-\$169
Maxi-Cosi Mico Infant Car Seat	5-point		5-22 pounds	19"-29"	\$170
Orbit Baby Infant Car Seat and Car Seat Base G2	5-point		4-22 pounds	19"-29"	\$400
Peg Perego Primo Viaggio SIP 30/30	5-point		5-30 pounds	Up to 30"	\$249-\$299
Safety 1st Comfy Carry	5-point		4-22 pounds	Up to 29"	\$69
Safety 1st Comfy Carry Elite	5-point		4-22 pounds	Up to 29"	\$75

Infant-only seats, continued	ntínued					
Name		Harness Type		Rear-Facing Weight Limits	Height Limits	Price
Safety 1st Designer		5-point	5-22 pounds	spui	19"-29"	\$65-\$80
Safety 1st OnBoard 35		5-point	4-35 pounds	Inds	Up to 32"	\$99
Safety 1st OnBoard 35 Air		5-point	> 4-35 pounds	Inds	Up to 32"	\$159-\$179
teutonia USA t-tario 35		5-point	5-35 pounds	Inds	Up to 32"	\$225
Convertible seats _{Name}	Harness Type	Rear-Facing Wei <mark>ght Li</mark> mits Height Limits	Limits,	Forward-Facing Weight Limits, Height Limits	ring Weight ht Limits	Price
Britax Advocate 70 CS	5-point	5-40 pounds, up to 49"		20-70 pounds, up to 49"	p to 49"	\$369.99
Britax Boulevard 70	5-point	5-40 pounds, up to 49"		20-70 pounds, up to 49"	p to 49"	\$309.99
Britax Boulevard 70 CS	5-point	5-40 pounds, up to 49"		20-70 pounds, up to 49"	p to 49"	\$329.99
Britax Marathon 70	5-point	5-40 pounds, up to 49"		20-70 pounds, up to 49"	p to 49"	\$279.99
<b>Britax</b> Marathon Classic (ONLY sold at Target)	5-point	5-35 pounds, up to 49"		20-65 pounds, up to 49"	p to 49"	\$199.99

Name	Harness Type	Rear-Facing Weight Limits, Height Limits	Forward-Facing Weight Limits, Height Limits	Price
<b>Britax</b> Roundabout 50 Classic (ONLY sold at Target)	5-point	5-35 pounds, up to 49'	20-50 pounds, up to 40"	\$159.99
Britax Roundabout 55	5-point	5-40 pounds, up to 46"	20-55 pounds, up to 46"	\$199.99
Combi Coccoro	5-point	5-33 pounds	2040 pounds	\$200
Combi Zeus Turn	5-point	5-22 pounds	20-40 pounds	\$300
Combi Zeus 360	5-point	5-33 pounds	20-40 pounds	\$330
Cosco Scenera	5-point	5-35 pounds, 19"-36"	22-40 pounds, 34"-43"	\$50
Cosco Scenera 40RF	5-point	5-40 pounds, 19"-40"	22-40 pounds, 34"-43"	\$50-\$60
<b>Evenflo</b> Momentum 65	5-point	5-40 pounds AND top of head is at least 1" below the top of the child restraint headrest	20-65 pounds, less than 50"	\$160-\$190
<b>Evenflo</b> Titan Elite	5-point	5-35 pounds At least 19" AND top of head is at least 1" below the top of the child restraint seat back	20-50 pounds, less than 47"	\$50-\$100

# Convertible seats, continued

Name	Harness Type	Rear-Facing Weight Limits, Height Limits	Forward-Facing Weight Limits, Height Limits	Price
<b>Evenflo</b> Tribute 5	5-point	5-35 pounds At least 19" AND top of head is at least 1" below the top of the child restraint seat back	20-40 pounds, less than 40"	\$45-\$60
<b>Eventlo</b> Thiumph Advance 65 LX, DLX, or Premier	5-point	5-40 pounds At least 19" AND top of tead is at least 1" below the top of the child restraint seat back	20-65 pounds, less than 50"	\$140-\$180
The First Years True Fit 630	5-point	5-22 pounds without upper seat back installed 5-35 pounds with upper seat back installed	23-65 pounds up to 50"	\$189.99
<b>The First Years</b> True Fit Redine C650	5-point	5-22 pounds without upper seat back installed 5-35 pounds with upper seat back installed	23-65 pounds, up to 50"	\$199.99
The First Years True Fit Rebound C670	5-point	5-22 pounds without upper seat back installed 5-35 pounds with upper seat back installed	23-65 pounds, up to 50"	\$239.99
Graco ComfortSport	5-point	5-30 pounds	20-40 pounds, up to 40"	\$79-\$99
Graco My Ride 65	5-point	5-40 pounds	20-65 pounds, up to 50"	\$149

Convertible seats, continued

Name	Harness Type	Rear-Facing Weight Limits, Height Limits	Forward-Facing Weight Limits, Height Limits	Price
Maxi-Cosi Priori	5-point	5-35 pounds, 19"-36"	22-40 pounds, 34"-43"	\$200-\$230
Orbit Baby Toddler Seat	5-point	15-35 pounds	20-50 pounds, up to 49"	\$360
Recaro ProRIDE	5-point	5-35 pounds	20-70 pounds, up to 50"	\$279.99
Safety 1st Complete Air 65	5-point	5-40 pounds, 19"-40"	22-65 pounds, 34"-52"	\$180
Safety 1st onSide Air	5-point	5-40 pounds, 19"-40"	22-40 pounds, 34"-43"	\$100
Sunshine Kids Radian65SL Car Seat	5-point	5-40 pounds	20-65 pounds, up to 53" Up to 65 pounds with lower anchors	\$229.99
Sunshine Kids Radian80SL Car Seat	5-point	5-45 pounds	20-80 pounds, up to 53" Up to 80 pounds with lower anchors	\$269.99
Sunshine Kids RadianXTSL Car Seat	5-point	5-45 pounds	20-80 pounds, up to 53" Up to 80 pounds with lower anchors	\$299.99
<b>Tripleplay Products/Lilly Gold</b> 5-n-1 Sit'n Stroll	5-point	5–30 pounds	20-40 pounds	\$249.95

# Convertible seats, continued

3-in-1 Seats (can be used re	3-in-1 Seats (can be used rear-facing, forward-facing, or as a belt positioning booster.)	positioning booster.)		
Name	Rear-Facing Weight Limits, Height Limits	Forward-Facing Weight Limits, Height Limits	Booster Weight Limits, Height Limits	Price
Eddie Bauer Deluxe	5-35 pounds, 19"-36"	22-40 pounds, 34"-43"	40-80 pounds, 43"-52"	\$120-\$130
Eddie Bauer Deluxe 3-in-1 Convertible Car Seat	5-35 pounds, 19"-36"	22 <b>-50 po</b> unds, 34"-45"	40-100 pounds, 43"-52"	\$170-\$180
Eventlo Symphony 65	5-40 pounds, AND top of head is at least 1" 20-65 pounds, 50" or less below the top of the child restraint headrest	20-65 pounds, 50" or less	40-100 pounds, less than 57"	\$200
Graco Smart Seat	$5-40$ pounds, AND top of head is greater than $1^{"}$ from top of seat	20-65 pounds Maximum height 50"	30-100 pounds Maximum height 57"	\$299-\$329
Safety 1st All-in-One, Alpha Omega	5-35 pounds, 19"-36"	22-50 pounds, 35"-45"	40-80 pounds, 43"-52"	\$120-\$130
Safety 1st Alpha Omega Elite	5-35 pounds, 19"-36"	22-50 pounds, 34"-45"	40-100 pounds, 34"-52"	\$160

Name	Weight Limits, Height Limits With Harness	ו Harness	Weight Limits, Height Limits as Booster	Price
<b>Britax</b> Frontier 85 Harness2-Booster	2 years of age and 25-85 pounds, 30"-57"	S	40-120 pounds, 42"-65"	\$279.99
Cosco High Back Booster	22-40 pounds, 34"-43"	F	40-80 pounds, 43"-52"	\$50
Cosco Ventura	22-40 pounds, 34"-43"		40-80 pounds, 43"-52"	\$60
Eddie Bauer Adjustable High Back Booster	22-40 pounds, 34"-43"	N	40-100 pounds, 43"-48"	\$99
Eddie Bauer Deluxe High Back Booster	22-40 pounds, 34"-43"	1	40-100 pounds, 43"-52"	\$120
<b>Evenflo</b> Express, Chase	20-40 pounds At least 29" AND shoulders below top harness slots	slots	40-100 pounds 43.5"-54" AND ears below top of child restraint headrest	\$50-\$70
<b>Evenflo</b> Generations 65	20-65 pounds	F	40-100 pounds 44"-57" AND ears below top of child restraint headrest	\$100
<b>Evenflo</b> Maestro	20-50 pounds	_	40-100 pounds 44"-57" AND ears below top of child restraint headrest	\$80
<b>Graco</b> Nautilus	20-65 pounds 27"-52" if shoulders are below top harness slots	s	High back: 30-100 pounds, 38"-57" Backless: 40-100 pounds, 40"-57"	\$179.99

Combination Seats (can be used with 5-point harness or as belt-positioning booster.)

Name	Weight Limits, Height Limits With Harness	Weight Limits, Height Limits as Booster	Price
<b>Graco</b> Nautilus Elite	20-65 pounds 27"-52" if shoulders are below top harness slots	High back: 30-100 pounds, 38"-57" Backless: 40-100 pounds, 40"-57"	\$199.99
Kiddy World Plus	20-40 pounds, up to 40" with protection shield	40-110 pounds, up to 60"	\$269.99
KIDSEmbrace Toddler/Booster Car Seat	22-65 pounds, 29"-52"	30-100 pounds 38"-57"	\$159.99
Recaro ProSPORT	20-90 pounds, 27"-50"	30-120 pounds 37"-59"	\$279.99
Safety 1st Go Hybrid Booster	22-65 pounds, 34"-52"	40-100 pounds 43"-57"	\$199.99
<b>Safety 1st</b> Rumi Air Booster or Essential Air	22-65 pounds, 34"-52"	40-100 pounds 43"-57"	\$179
Safety 1st Summit	22-40 pounds, 34"-43"	40-100 pounds 43"-52"	\$99.99
Safety 1st Vantage, Surveyor	22-40 pounds, 34"-43"	40-100 pounds 45"-52"	\$80

Combination seats, continued

eats
dler so
y todo
luo gu
-facir
orward
facing

Name	Harness Type	Weight Limits	Height Limits	Price
firstSEAT Revolution	5-point	22-60 pounds	Up to 50"	\$299
		6		
Belt-positioning booster	oster seats			
Name	Type	Weight Limits	Height Limits	Price
<b>Britax</b> Parkway SG	High back converts to backless	40-120 pounds (high back and backless)	38"-63" (high back and backless)	\$119.99
Britax Parkway SGL	High back converts to backless	40-120 pounds with lower anchors (high back and backless)	38"-63" (high back and backless)	\$149.99
Chicco KeyFit Strada Booster	High back converts to backless	High back. <u>33–1</u> 00 pounds Backless: 40–100 pounds	High back: 38"-57" Backless: 38"-57"	\$150
Clek Olli Booster Seat	Backless	40-120 pounds	40"-57"	\$79.99-\$99.99
Clek Oobr Booster Seat	High back converts to backless	High back: 33-100 pounds Backless: 40-100 pounds	High back: 38"-57" Backless: 40"-57"	\$274.99-\$299.99
<b>Clek</b> Ozzi Booster Seat	Backless	40-120 pounds	40"-57"	\$69.99

Belt-positioning booster seats, continued	er seats, continued			
Name	Type	Weight Limits	Height Limits	Price
<b>Combi</b> Kobuk Air Thru	High back	33-125 pounds	33"-57"	\$80
Cosco Ambassador, High Rise	Backless	30-100 pounds	34"-57"	\$18
Cosco Complete Voyager	High back	40-80 pounds	43"-52"	\$20-\$25
Cosco Protek	High back	30-100 pounds	34"-57"	\$30-\$50
Cosco Pronto!	High back	30-100 pounds	34"-57"	\$35
Cosco Disney Pronto!	Backless	40-100 pounds	43"-57"	\$24
CYBEX Solution X-fix	High back	33-100 pounds	38"-60"	\$199.95
<b>Evenflo</b> Big Kid, Big Kid Amp	Backless	40-100 pounds	40"-57" and whose ears below top of \$15-\$25 vehicle seat headrest	\$15-\$25
<b>Eventlo</b> Big Kid	High back converts to backless	High back: 30-100 pounds Backless: 40-100 pounds	High back: 38"–57" Backless: 40"–57" AND ears below top of vehicle seat back	\$30-\$60
<b>Evenflo</b> Maestro Booster	High back	40-100 pounds	44"-57" AND ears below top of child \$30-\$40 restraint headrest	\$30-\$40

continued
seats,
booster
itioning
Belt-pos

Name	Type	Weight Limits	Height Limits	Price
The First Years B505 Compass Booster	High back	30-100 pounds	38"-57"	\$59.99
The First Years B540 Compass Booster	High back	30-100 pounds	38"-57"	\$79.99
The First Years Pathway B570 Booster	High back	30-100 pounds	38"-57"	\$99.99
Graco TurboBooster	Backless	40-100 pounds	40"-57"	\$24.99-\$29.99
<b>Graco</b> TurboBooster	High back converts to backless	High back: 30-100 pounds Backless: 40-100 pounds	High back: 38"–57" Backless: 40"–57"	\$49.99-\$69.99
Harmony Baby Armor Youth Booster Seat	High back converts to backless	30-110 pounds (high back and backless)	34"-57" (high back and backless)	\$79.99
Harmony Cruz Youth Booster Seat	Backless	30-110 pounds	34"-57"	\$18.99
Harmony Dreamtime Comfort Booster Seat	High back converts to backless	30-110 pounds (high back and backless)	34"–57" (high back and backless)	\$49.99
Harmony LiteRiderYouth Booster Seat	Backless	30-100 pounds	34"-57"	\$13.50
<b>Harmony</b> SECURE Comfort Deluxe Booster Seat	Backless	30-110 pounds	34"-57"	\$19.99
Jeffco Fibres Grizzly Bear	High back	40-100 pounds	33"-57"	\$119
Jeffco Fibres Polar Bear	High back	30-100 pounds	33"-57"	\$129

Name	Type	Weight Limits	Height Limits	Price
Jeffco Fibres Teddy Bear	High back	30-80 pounds	33"-57"	\$109
Maxi:Cosi Rodi	High back	30-100 pounds	34"-57"	\$130-\$140
Maxi-Cosi Rodi XR	High back	30-100 pounds	34"-57"	\$160
ProRider Booster Car Seat	Backless	33-80 pounds	60" or less	\$17.95 (online ordering only)
Recaro ProBooster	High back	30-120 pounds	37"-61"	\$129.99
Recaro VIVO	High back	30-100 pounds	37"-59"	\$89.99
Safety 1st Boost Air	High back	30-100 pounds	34"-57"	62\$
Sunshine Kids Monterey Booster Seat	High back converts to backless	30-120 pounds Up to 120 pounds with lower anchors	Up to 63" ors	\$139.99
Sunshine Kids SantaFe Booster	Backless	30-120 pounds with lower anchors	38"-63"	\$69.95

Belt-positioning booster seats, continued

Name	Weight Limits, Age Limits	Price
E-2-ON 103Z Adjustable Vest (rear zipper closure)	20-168 pounds, ages 2-adult \$	\$120
E-Z-ON 203 Adjustable Vest (mini push button front closure)	20-100 pounds, ages 2-smaller-sized children (XSmall, Small)	\$120
E.2.ON 203/225 All-in-One LATCH Vest	20-100 pounds, ages 2-smaller-sized children (XSmall, Small, Medium)	\$145
E.Z.ON 86Y Harness	100-168 pounds \$	\$60-80
E-2-ON Kid-YC Harness	Up to 100 pounds \$	\$65
E-2-ON 1012 Non-adjustable Vest (rear zipper closure)	20-168 pounds, ages 2-adult \$	\$120-\$140
E-Z-ON 101 Push Button Non-adjustable Vest	101 Mini Push Button: 20-65 pounds 101 Standard Push Button: larger children-adult up to 168 pounds	\$120-\$140
Safety Angel Booster Harness	30-100 pounds, must be used with a booster seat	\$48
Safe Traffic Systems RideSafer Travel Vest	Small vest: 35-60 pounds, 3-6 years Large vest: 50-80 pounds, 5-10 years	\$124 (SM) \$129 (LG)

# Built-in (integrated) seats

Built-in or integrated child safety seats are available on selected models from some motor vehicle manufacturers. Check with the vehicle manufacturers for specifics.

**Travel vests** 

### teutonia USA (Newell Rubbermaid) Sunshine Kids Juvenile Products riplePlay Products, www.safetyangel.com vww.teutoniausa.com www.safety1st.com LLC/LillyGold 800/829-1625 800/345-4109 877/431-1678 888/336-7909 www.skjp.com 800/544-1108 Safety Angel Safety 1st

ww.lillygold.com

Safe Traffic System, Inc www.safetrafficsystem.com

73/509-0530

Recaro North America Peg Perego USA, Inc. 800/671-1701 ww.recarokids.com www.pegperego.com www.orbitbaby.com ww.maxi-cosi.com ww.prorider.com ProRider, Inc. 300/873-2276 377/672-2229 300/642-3123 300/951-4113 **Orbit Baby** 

**Maxi-Cosi** 

Manufacturer phone numbers and Web sites

Graco Children's Products Inc. Harmony Juvenile Products www.harmonyjuvenile.com effco Fibres (formerly Newell Rubbermaid) www.gracobaby.com ww.kidsembraœ.com aRoche Brothers) vww.jeffcofibres.com /ww.kiddyusa.com www.firstseat.com 408/607-6294 300/345-4109 877/306-1001 00/225-7352 IDSEmbrace 578/577-5309 366/947-3287 KiddyUSA instSEAT

For more information on the seats listed in this guide, please contact the individual manufacturers. 5-Z-ON Products Inc. of Florida CYBEX (Regal Lager, Inc. vww.djgusa.com/eddiebauer Dream on Me/Mia Moda ww.miamodainc.com vww.regallager.com www.evenflo.com /ww.ezonpro.com The First Years 00/593-5522 800/233-5921 800/323-6598 '32-748-1300 800/544-1108 388/899-2229 **Eddie Bauer** listributor) Evenflo

www.babytrend.com 800/328-7363 **Baby Trend** 

www.chiccousa.com 877/4244226 Chicco Clek

www.clekinc.com Combi vww.combi-intl.com 800/544-1108 Cosco, Inc.

31

www.britaxusa.com 888/4274829

Britax

248/284-2462

800/992-6624

vww.coscojuvenile.com

ww.learningcurve.com

# Aller A. A.M. Vorales

The American Academy of Pediatrics (AAP) is an organization of 60,000 primary care pediatricians, pediatric medical subspecialists, and pediatric surgical specialists dedicated to the health, safety, and well-being of all infants, children, adolescents, and young adults.

As part of that commitment, the AAP publishes a number of books for parents. All are richly illustrated and written in straightforward language. All are based on sound medicine and commonsense advice from the nation's top pediatricians. Having these on your bookshelf is like having a pediatrician on call 24 hours a day, 7 days a week!

### Caring for Your Baby and Young Child: Birth to Age 5

Finally! The "instruction manual" for children! Every aspect of basic child care is covered in this top selling bookinfant care, nutrition, discipline, safety, caregiving, emergencies, common illnesses, immunizations, environmental hazards, and so much more. **CB0057/Spanish CB0046** 

To order this book-and many more-go to www.HealthyChildren.org/bookstore. HealthyChildren.org is the official AAP Web site for parents. Visit today for reliable.



pediatrician-approved children's health and safety information!

bealthy children.org

Figures 1, 3, and 4 by Wendy Wray.

Figure 2 from American Academy of Pediatrics Committee on Injury, Violence, and Poison Prevention and the Committee on Fetus and Newborn. Safe transportation of preterm and low birth weight infants at hospital discharge. *Pediatrics.* 2009;123;1424-1429.

Copyright © 2011 American Academy of Pediatrics All rights reserved. HE50275-11

# American Academy of Pediatrics



DEDICATED TO THE HEALTH OF ALL CHILDREN™

5-22/Rev0111