



**Spirit™ Adjustable Positioning System™ (APS™)
Child Restraint Instructions**
Designed for Children with Special Health Care Needs
Model #2400



User Weight:
25 - 130 lbs
(11.3 - 59 kg.)

User Height:
Less than 66 in.
(less than 1.67 m)



WARNING!
**Read ALL instructions before
using this child restraint!**

**Failure to follow the warnings on the labels and in
the instructions can result in death or serious injury
to the user.**

ATTENTION

Your Spirit™ Adjustable Positioning System (APS)™ Child Restraint has been built to the highest standards of quality to ensure years of superior service. Please take the time to read this informative instruction guide and pay particular attention to the safety information provided.

Your child's safety is of the utmost importance, so we urge you to carefully and completely READ ALL the instructions.

The proper use of a child restraint, combined with careful driving, can lower a child's risk of injury or death in a crash. Please ensure that your child restraint is correctly installed by reading and following the instructions.

If you require additional assistance, please call Columbia Medical Customer Service at **(800) 454-6612**, or e-mail **info@columbiamedical.com**

Thank you for choosing Columbia Medical.

IMPORTANT

- Use this child restraint in the forward-facing position only.
- The recommended location for this child restraint is in the rear center seat.
- This child restraint must be used in forward facing vehicle seats only.
- Visit "www.safekidsworldwide.org" to find the nearest child restraint safety check point, or ask your local highway patrol office for assistance.

Table of Contents

Warnings	4-5
Important Safety Information	6
Vehicle Seating Positions	7
Child Restraint Features	8-9
Vehicle Seat Belt Compatibility	10-11
Installation: Lap-Shoulder Belt (ALR)	12
Installation: Lap-Shoulder Belt (ELR)	13
Installation: Lap Belt (ALR)	14
Installing Tether	15-16
Adjusting the Child Restraint	
Operating the Harness Buckle	17
Checking/Adjusting the Harness Height	17
Adjusting the Harness Fit	18
Adjusting the Chest Retainer Clip	19
Adjusting Padded Head Supports	19
Adjusting Seat Recline	19
Securing the User in the Child Restraint	20
Optional Accessories	
Swing-Away Supports	21
Seat Depth Extender	22
Swing-Away Abductor	22
Extensor Thrust Wedge	22
Buckle Guard	22
Memory Foam Padding	22
Care and Maintenance	
Cleaning the Cover	23
Removing the Cover	23
Refitting the Cover	23
Part Number List & Descriptions	24
Copy of Product Registration Card	25



WARNING
DEATH or SERIOUS INJURY can occur.

- **Use only with individuals who weigh between 25 and 130 lbs. (11.3 - 59 kg) and are less than 66 inches (1.67 m) in height.**
- **Read and follow all instructions** on this child restraint and in the written instructions located on the side of the child restraint.
- When using in a vehicle with airbags, **read vehicle owner's manual** for other warnings and additional precautions.
- Make sure that **all straps and harnesses** provided with this child restraint **fit snugly around the user**. A snug strap should not allow any slack and lies in a relatively straight line without sagging. The strap should also not press on the user's skin or push the user's body into an unnatural position.
- **Secure this child restraint with the vehicle's seat belt even when it is not occupied.**
- **Use this child restraint in the forward-facing position ONLY.** This child restraint is NOT designed for use in a rear-facing position.
- **Do not use this child restraint in the front seat** of a vehicle with a passenger air bag unless the air bag is turned off. Death or serious injury can occur. According to crash statistics, children are safer when properly restrained in the rear seat rather than in the front seat. Regardless of seating position, the Federal Government recommends that all children twelve or under ride in the rear seat.
- Do not use this child restraint with vehicle seats that face to the side or rear or with vehicle seats with backs that can fold forward in a crash or sudden stop. Check your vehicle manual or with your dealer if you are not sure.
- **Register your child restraint** by completing and returning the product registration card. Although child restraints undergo testing and evaluation, it is possible that a child restraint could be recalled for safety reasons. You must register this child restraint in order to be reached in the case of a recall. Send your name, address, e-mail (optional), the child restraint's model number, serial number and manufacturing date to Columbia Medical, 11724 Willake Street, Santa Fe Springs, CA 90670 USA, or call 1-800-454-6612.

For recall information, call the U.S. Government's Vehicle Safety Hotline at 1-888-327-4236 (TTY: 1-800-424-9153), or go to <http://www.NHTSA.gov>.



W A R N I N G
DEATH or SERIOUS INJURY can occur.

- Do not use this child restraint with your vehicle's lower anchor LATCH connector system. Use only the vehicle's seat belts for installation. Upper LATCH anchor points may be used to secure the tether.
- When using this child restraint in a vehicle with side air bags, refer to the vehicle owner's manual for installation instructions and precautions.
- Do not route the vehicle seat belt over the user while using this child restraint.
- When using a shoulder/lap safety belt, the shoulder belt strap must lie within the "Shoulder Belt Zone" as labeled on the upper left and right side of the child restraint. If this is not the case, then a top tether **MUST** be used.
- Do not use the harness independently of the seat. The harness assembly is for use only with the Spirit™ APS™ Child Restraint Model 2400.
- Secure this child restraint even when it is not occupied; in a crash, an unsecured child restraint may injure vehicle occupants.
- **Never leave a child unattended** in the vehicle even if they are secured in the child restraint. Children could be seriously or fatally injured from excessive exposure to extreme heat or cold.
- This child restraint conforms to all applicable Federal Motor Vehicle Safety Standards (FMVSS). This child restraint is certified for use only in motor vehicles. It is not certified for use in airplanes.

IMPORTANT Safety Information

- This child restraint is designed to fit a wide range of individuals. To ensure a proper fit for the user, it is important that the child restraint be correctly set up and installed before using it for the first time.
 - Read the section on “*Vehicle Seat Belt Compatibility*” (pg. 10-11) to determine the type of seat belts that may be used with this child restraint.
 - No additional padding, other than what is provided with the child restraint, should be used behind or under the child restraint, or under or behind the user in the child restraint.
 - The child restraint harness should not be worn over heavy clothing such as thick jackets, coats or vests.
 - If your child restraint becomes badly worn or damaged, or is involved in a crash, regardless of speed and regardless of how minor, your child restraint may no longer be effective and should be **immediately** replaced.
 - The metal parts on the child restraint and/or vehicle seat belt can heat up if the vehicle is parked in the sun. To avoid injury to the occupant, always check that the metal parts are not too hot before putting the occupant in the seat. We recommend covering the seat with a blanket or towel, if you park your vehicle in the sun, to help keep the metal parts from heating up.
 - Do not leave loose objects in the passenger compartment of your vehicle. In the event of a crash, these objects can become projectiles and can cause serious injury or death.
 - Do not leave folding vehicle seats unlatched. In the event of a sudden stop, a loose seat back could prevent the child restraint from protecting the child as well as it should.
 - Do not, except as described in this booklet, attempt to disassemble any part of this child restraint or change the way its harness or the vehicle restraint belts are used.
 - Discontinue use of a child restraint if it has been involved in a crash to prevent injury due to deterioration or hidden damage.
 - Upholstery meets Fire-Retardant Code 302 for automobile upholstery.
-

Vehicle Seating Positions

- Do not place a child in a child restraint in the front seat of a vehicle with a passenger air bag unless the air bag is turned off. DEATH or SERIOUS INJURY can occur.
- This child restraint must **ONLY** be used in **forward-facing vehicle seats**.
- **Use this child restraint in the forward-facing position ONLY.**
- The recommended installation location for this child restraint is in the rear center seat.
- This child restraint **CANNOT** be used in rear-facing vehicle seats, such as those in some vans or buses.
- This child restraint **CANNOT** be used in side-facing vehicle seats, such as those in some vans and pick-up trucks.
- This child restraint **CANNOT** be used in flip-down vehicle seats, often referred to as “jump-seats”.



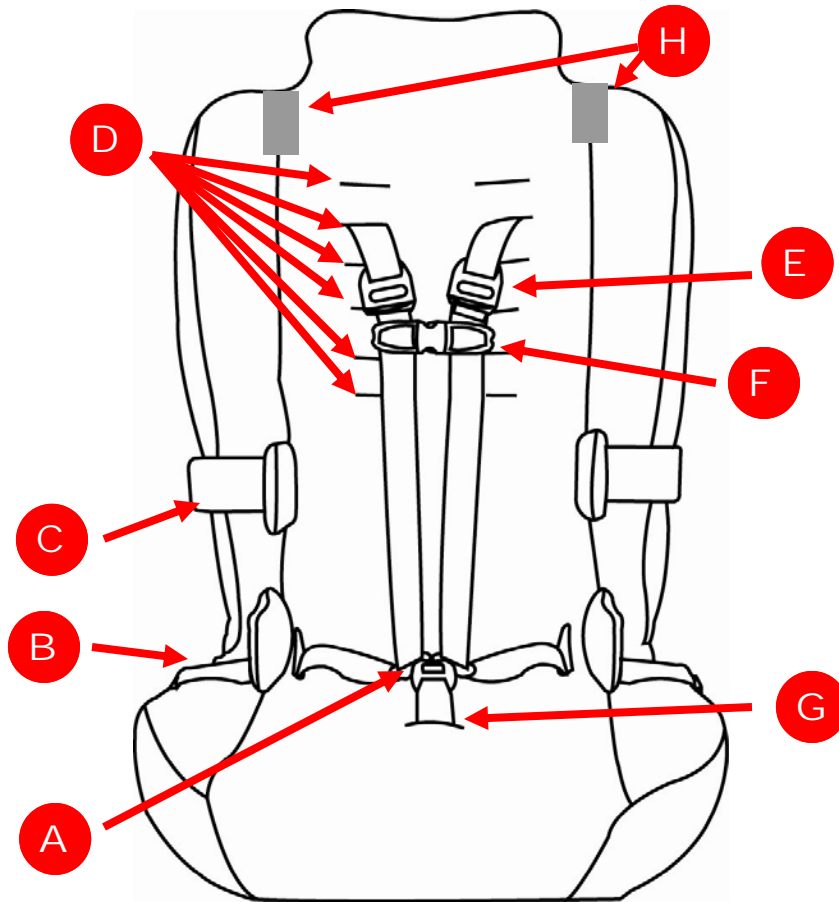
Vehicle
Rear View



Vehicle
Side View

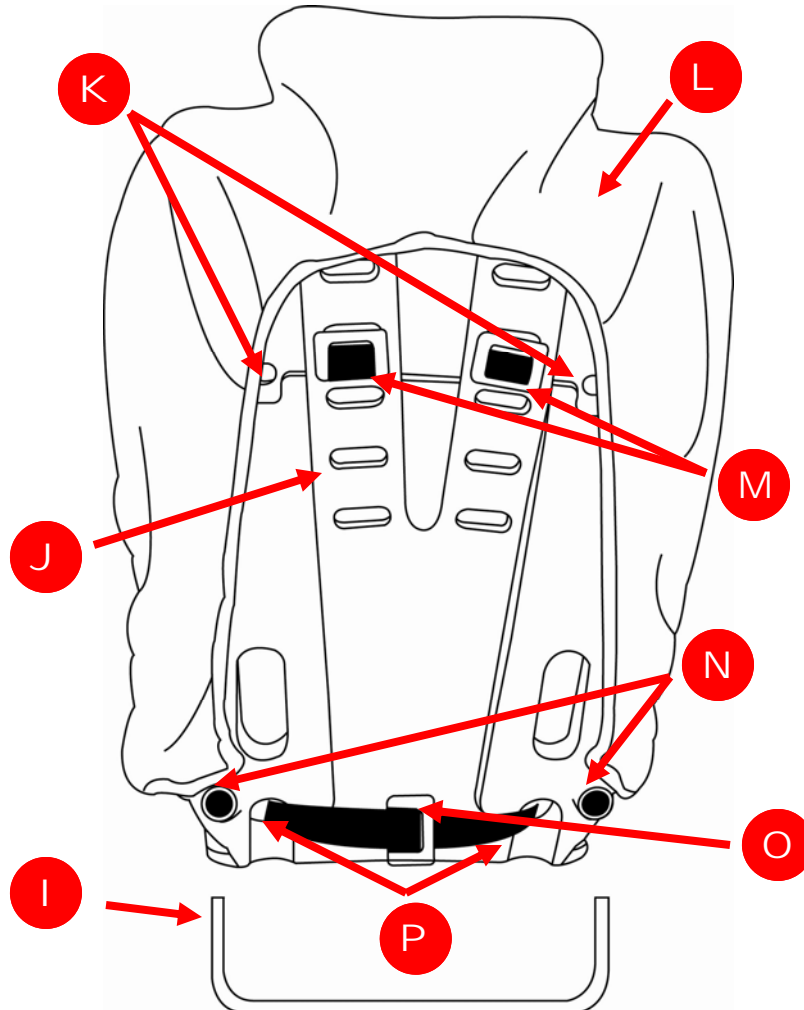
NOTE: According to research sponsored by the National Highway Traffic Safety Administration (NHTSA), children are significantly safer when properly restrained in the back seat, compared to the front seat.

Child Restraint Features



- A. Harness Buckle
 - B. Swing-Away Hip Supports (optional accessories)
 - C. Swing-Away Trunk Supports (optional accessories)
 - D. Shoulder Harness Slots (6 on each side)
 - E. Tension Adjuster
 - F. Chest Retainer Clip
 - G. Crotch Strap Slot (2 positions)
 - H. Shoulder Belt Path (as marked by labels)
-

Child Restraint Features



- I. Recline Bar
 - J. Shoulder Harness Slot (6 on each side)
 - K. Tether Slots (4 slots located underneath cover)
 - L. Cover
 - M. Harness Metal Bracket
 - N. Insertion Holes for Recline Bar
 - O. 3-bar Metal Bracket Fastener for Harness Assembly
 - P. Lower Side Harness/Vehicle Belt Slots
-

Vehicle Seat Belt Compatibility

Vehicle seats and safety belts differ from vehicle to vehicle. Always refer to your vehicle owner's manual or call the vehicle manufacturer for specific information about the use of child restraints in your vehicle. Some vehicles may have seating positions or seat belts which are not compatible with this Columbia Medical child restraint.

Below are the types of vehicle seat belt retractors. Refer to your vehicle owner's manual to determine the kind of retractors used in your vehicle and how to operate them.

- **ELR – Emergency Locking Retractor:** Allows the belt to be freely extended or rewound. It locks only when the vehicle slows, changes direction or stops suddenly.
- **ALR – Automatic Locking Retractor:** Allows belt to be pulled in one motion until fastened, then operates as a ratchet, winding in slack, preventing further extension (until completely rewound). In most belts, you will hear a faint clicking sound that indicates the belt is locked and ratcheting in.
- **Switchable**– Manually adjustable from ELR mode to ALR mode. For most, pull belt webbing all the way out of the retractor to activate the ALR mode. A slight "click" may be heard, but the belt will ratchet into retractor once switched into ALR mode. In some models, the retractors switch from ELR to ALR by pushing a button.

Vehicle Seat Belt Compatibility (continued)

Below are the vehicle seat belts that **CAN BE USED**:

- **Continuous-loop lap-shoulder belts with a sliding latch plate.**
This type of seat belt consists of continuous webbing that is bolted to the vehicle on one end and has a retractor on the other end. The latch plate (the “male” part of the seat belt buckle) slides freely along the webbing to form a lap belt and a shoulder belt when attached to the buckle. The lap/shoulder belt may need to be locked by pulling it completely out of the retractor, thereby switching it to automatic locking mode. Refer to your vehicle owner’s manual.
- **Combination lap-shoulder belts with a locking latch plate.**
This type of seat belt has a latch plate (the “male” part of the seat belt buckle) that locks into place to secure the child restraint.
- **Lap belts with automatic locking retractors (ALR).**
These lap belts automatically lock to whatever length they have been pulled to, after which they can only be reset by retracting the belt completely. However, a **TOP TETHER STRAP MUST BE USED** if the child restraint is installed with only a lap belt.
- **Lap belts with a locking latch plate.**
This type of seat belt stays locked after the seat belt is tightened by pulling the free end. However, a **TOP TETHER STRAP MUST BE USED** if the child restraint is installed with only a lap belt.

Vehicle seat belts that **CANNOT BE USED**:

- Seat belts with the top and/or bottom anchor attached to the vehicle door.
- Lap belts with an emergency locking retractor (ELR), which means that the lap belt will only lock in the event of a sudden stop or crash.
- Motorized seat belts that automatically surround the passenger when the door is closed.
- Combination lap and shoulder belts with a “sewn latch plate”. The lap belt is sewn to the side of the latch plate (the “male” part of the seat belt buckle), while the shoulder belt is sewn to the top of the latch plate. Each belt feeds into a separate emergency-locking retractor prohibiting proper control of the seat belt tension.

Installation: Lap-Shoulder Belt (ALR)

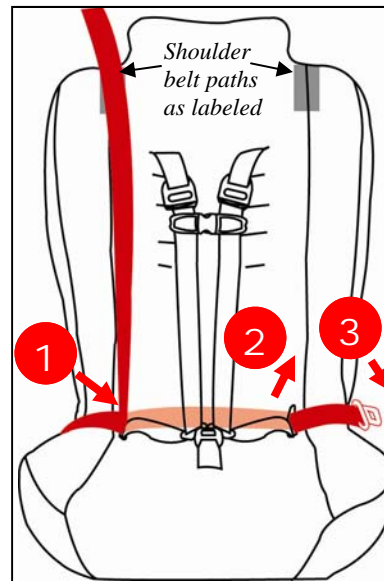
Follow these instructions when installing in a vehicle with seat belts that utilize an **Automatic Locking Retractor (ALR)** which, when extended all the way out, the seat belt activates the locking mechanism and retracts the belt without allowing any further lengthening or slack.

This is the **RECOMMENDED** method of installation.

1. Place the child restraint in a forward-facing position on the vehicle seat.
Note: If more than 3 inches of the child restraint base extends beyond the front edge of the vehicle seat (not including use of the recline bar), then the vehicle seat is too shallow to properly support the child restraint. **If this is the case, DO NOT INSTALL.**

2. Pull the seat belt out completely to engage the retractor. Do not allow the belt to retract.

- 1) Insert the latch plate (the “male” part of the seat belt buckle) into the outer lower side vehicle belt slot and route the belt around the back of the child restraint
- 2) Pull the seat belt out through the other lower side vehicle belt slot
- 3) Insert the latch plate (the “male” part of the seat belt buckle) into the vehicle’s seat belt buckle (see right)

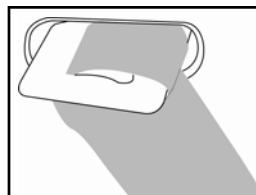


3. When routing the vehicle’s seat belt, make sure that the shoulder belt lies within the “Shoulder Belt Path” as labeled on the upper right and left sides of the child restraint. If not, then you **MUST** tether (see tether installation on pg. 15).
4. Place one knee in the child restraint and push down firmly. Starting from the buckle, pull on the shoulder belt portion of the webbing until it is tight.
5. Eliminate the slack by releasing the shoulder belt back into the retractor. You should hear a clicking noise as the webbing rewinds.
6. Pull on the shoulder belt to ensure that it is locked. If properly engaged, you should not be able to create any slack in the seat belt. Ensure that the child restraint is held down firmly into the vehicle seat.
7. The tightness of the installation should ensure that there is no more than 1-inch of movement of the child restraint. If there is more than 1-inch of movement, then the installation is incorrect and must be redone.

Installation: Lap-Shoulder Belt (ELR)

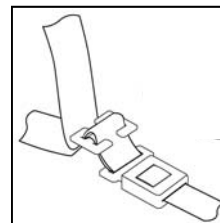
Follow these instructions when installing in a vehicle with seat belts that utilize an **Emergency Locking Retractor (ELR)** which allows free movement of the occupant and only locks in the event of an emergency situation, such as sudden breaking or collision. To install the child restraint using an ELR system, a **LOCKING CLIP** is required to maintain to proper belt tension **AND YOU MUST USE A TOP TETHER** (see pg. 15).

1. Lift the cover from the child restraint to reveal the tether slots. Insert each of the metal bracket ends of the tether strap into the right and left tether slots (insert from front to back). You will have to turn the bracket horizontally (as shown on right) then insert the bracket completely into the slot. The tether strap will wrap over the top of the child restraint frame and down the back. Reposition cover.



2. Place the child restraint in a forward-facing position on the vehicle seat. **Note:** If more than 3 inches of the child restraint base extends beyond the front edge of the vehicle seat (not including use of the recline bar), then the vehicle seat is too shallow to properly support the child restraint. **If this is the case, DO NOT INSTALL.**
3. Pull the seat belt out completely. Then,
 - 1) insert the latch plate (the “male” part of the seat belt buckle) into the outer lower side vehicle belt slot and route the belt around the back of the child restraint
 - 2) pull the seat belt out through the other lower side vehicle belt slot
 - 3) insert the latch plate (the “male” part of the seat belt buckle) into the vehicle’s seat belt buckle.

4. Place one knee in the child restraint and push down firmly while pulling on the shoulder belt to tighten and remove any slack from the lap portion of the belt.
5. With one hand, firmly hold the shoulder and lap portions of the seat belt together, immediately behind the latch. Then, release the seat belt latch from the buckle.



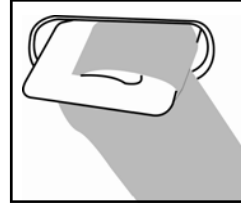
Installation of locking clip

6. Fold the webbing and thread it through the locking clip, as shown above, keeping the locking clip as close as possible to the latch plate (no further than 0.5-inch). Buckle the seat belt checking that the child restraint is tightly in place and continue to tether installation (pg. 15)
7. The tightness of the installation should ensure that there is no more than 1-inch of movement of the child restraint. If there is more than 1-inch of movement, then the installation is incorrect and must be redone.

Installation: Lap Belt (ALR)

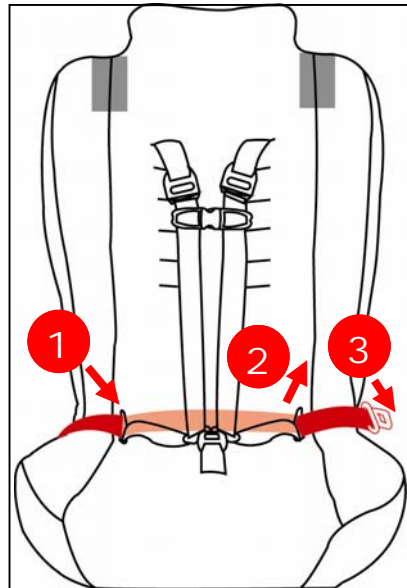
When installing the child restraint into a vehicle using only a lap belt, **YOU MUST USE A TOP TETHER STRAP** (see pg. 15) anchored to one of the anchor points in your vehicle. **Make sure to check the Vehicle Seat Belt Compatibility** (pg. 10) before installing the child restraint.

1. Lift the cover from the child restraint to reveal the tether slots. Insert each of the metal bracket ends of the tether strap into the right and left tether slots (insert from front to back). You will have to turn the bracket horizontally (as shown on right) then insert the bracket completely into the slot. The tether strap will wrap over the top of the child restraint frame and down the back. Reposition cover.



2. Place the child restraint in a forward-facing position on the vehicle seat. **Note:** If more than 3 inches of the child restraint base extends beyond the front edge of the vehicle seat (not including use of the recline bar), then the vehicle seat is too shallow to properly support the child restraint. **If this is the case, DO NOT INSTALL.**

3. Pull the lap belt out completely. Then,
 - 1) insert the latch plate (the “male” part of the seat belt buckle) into the outer lower side vehicle belt slot and route the belt around the back of the child restraint
 - 2) pull the seat belt out through the other lower side vehicle belt slot
 - 3) insert the latch plate (the “male” part of the seat belt buckle) into the vehicle’s seat belt buckle (see right)



4. Place one knee in the child restraint and push down firmly while pulling on the lap belt to tighten and removing all slack. Make sure that the child restraint is flat against the vehicle seat back and bottom. Continue to tether installation (pg. 15).
5. The tightness of the installation should ensure that there is no more than 1-inch of movement of the child restraint. If there is more than 1-inch of movement, then the installation is incorrect and must be redone.

Installing the Tether

The Spirit™ APS™ Child Restraint is designed to use a lap-shoulder belt equipped with an Automatic Locking Retractor (*see pg. 12*). However, when installed in a vehicle using a lap-belt only or a lap-shoulder belt with an Emergency Locking Retractor (*see pg. 13*), then the child restraint must be anchored to the vehicle's **TOP TETHER ANCHOR POINTS** designated by the symbol on the right.

All vehicles manufactured since 2002 are equipped with tether anchors located directly behind the rear seats. Check your vehicle owner's manual for location details.



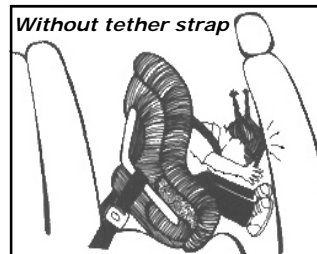
Anchor point symbol

For vehicles manufactured before 2002, a bolt-in tether must be used. Contact Columbia Medical customer service for more information.



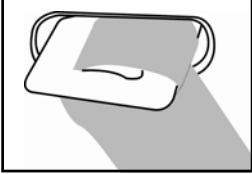
WARNING!
DEATH OR SERIOUS INJURY
can occur:

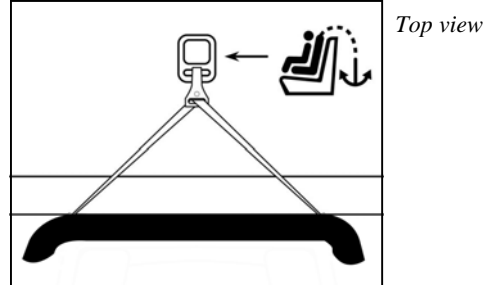
- An incorrectly installed child restraint may come loose during a crash which could result in serious injury or death to the user.
- **The tether hooks must be attached to the tether anchor points** designated as tether anchor points by the vehicle manufacturer. The icon shown above is used by vehicle manufacturers to identify the tether anchor points. Use of other locations is NOT approved or permitted.
- **For occupants over 80 lbs. (36 kg), BOTH tether hooks must be used.** Each hook must be attached to a separate tether anchor. A single tether anchor is not strong enough to support weights in excess of 80 lbs. (36 kg).



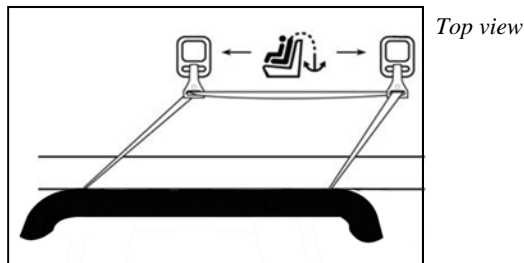
Installing the Tether (continued)

Note: The tether is a REQUIRED option and MUST be ordered separately. Please check vehicle owner's manual on tether anchor capacity. **Vehicle owner's manual supersedes instructions and recommendations below.**

1. As noted in the child restraint installation section of these instructions (pg. 13-14), lift the cover from the child restraint to reveal the tether slots. Insert each of the metal bracket ends of the tether strap into the right and left tether slots (insert from front to back). You will have to turn the bracket horizontally (*as shown on right*) then insert the bracket completely into the slot. The tether strap will wrap over the top of the child restraint frame and down the back. Reposition cover.
- 
2. After the child restraint has been installed using the vehicle's seat belts (see pg. 13-14), attach the tether hook(s) to the vehicle's tether anchor(s). The primary tether anchor to use will be located immediately behind the child restraint.
 - **For individuals LESS than 80 lbs. (36 kg):** attach **ONE tether hook** to the tether anchor immediately behind the child restraint.



- **For individuals GREATER than 80 lbs. (36 kg):** use **TWO tether hooks**, attaching one tether hook to the tether anchor immediately behind the child restraint AND the other tether hook to the closest adjacent tether anchor.



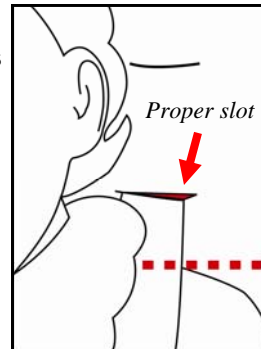
Adjusting the Child Restraint

Operating the Harness Buckle

1. To release, press the red button on the harness buckle.
2. To close, insert one metal latch into the harness buckle until it clicks. Repeat for the other metal latch.
3. Always make sure BOTH latches are properly fastened in the harness buckle when securing a user.
4. NEVER lubricate the harness buckle

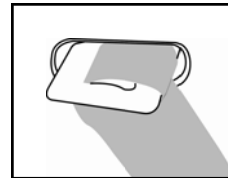
Checking the Harness Height

1. Place the user in the child restraint and properly secure the harness (as outlined above).
2. Check the position of the harness relative to the shoulder of the user.
 - Harness straps should be inserted in the nearest slot *at or above* the user's shoulder.
 - If the height of the user's shoulder is above the harness, it will be necessary to adjust the harness height.
 - If the harness height is correct, the child restraint can be used with no further adjustment.



Adjusting the Harness Height

1. Place the user in the child restraint and identify the closest harness slot at or above the user's shoulder. Remove the user from the child restraint.
2. Locate the metal bracket securing the top of the harness, along the back side of the restraint, and pull to expose 3" - 4" of the strap.
3. Turn the metal bracket horizontally so that it fits through the slot (*as shown right*) and push it all the way through, including the cover. Reposition harness to correct slot.
4. Reverse the process to reinstall, ensuring the metal bracket is flat against the back of the child restraint.



Adjusting the Child Restraint (continued)

Adjusting the Harness Fit

1. With the user in the child restraint, check the location of the buckle. When pulled upright, the buckle should be positioned at the level of the user's hips, not over the stomach area. Adjust the harness to fit the clothes the child is wearing. Remove bulky coats and/or jackets before putting the child in child restraint.
2. If necessary, the position of the buckle can be changed by relocating it to the other slot.
 - Locate the metal bracket on the under side of the child restraint that secures the bottom-end of the buckle strap.
 - Turn the metal bracket horizontally so that it fits through the slot and push it up all the way through, including the cover. Re-position buckle strap to correct slot.
 - Reverse the process to reinstall, ensuring the metal bracket is flat against the underside of the child restraint once finished.
3. The shoulder straps can be independently adjusted by pressing the grey button on the tension adjuster (see "E" on pg. 8) then adding or removing slack in the webbing.

Note: The tension adjuster should be positioned just below the user's collar bone. If the tension adjuster is either too low or too high relative to the user's collar bone, then the shoulder harness can be shortened/lengthened by increasing or decreasing the amount of webbing through the 3-bar metal bracket on the back side of the child restraint.



4. A snug strap **SHOULD NOT** allow any slack . It lies in a relatively straight line without sagging or pressing on the user's skin or body causing an unnatural position.

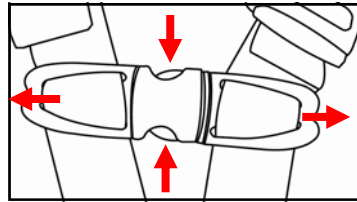
Adjusting the Child Restraint (continued)

Adjusting the Chest Retainer Clip

The chest retainer clip keeps the shoulder straps of the harness from sliding down off the shoulders.

Note: The correct height for the chest retainer clip is at the middle of the chest - level with the armpit.

1. The chest retainer clip is fastened by fitting the two halves together. The chest retainer clip is properly secured only when a click is heard.
2. Place the chest retainer clip in the proper location (level with the armpit) by sliding it up or down the harness straps.
3. To unfasten the chest retainer clip, simply squeeze the top and bottom tabs in the center, then pull the two halves apart.



Adjusting Padded Head Supports

The Spirit™ APS™ Child Restraint comes standard with adjustable soft-padded head supports.

1. Locate the plastic buckle and squeeze the top and bottom tabs, then pull buckle apart.
2. Adjust the height of the head support by inserting each end of the black strap into any of the unused harness slots that correspond to the vertical position of the user's head. Snap buckle to close.
3. To adjust the strap, pull on loose end until desired fit is achieved.

Adjusting Seat Recline

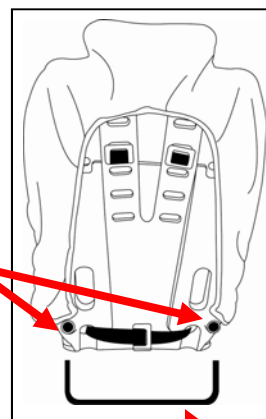
The child restraint can be adjusted to a reclined position using the optional recline bar.

1. Locate the holes in the lower rear of the child restraint (see right).
2. Insert the ends of the recline bar into the holes.

Insertion holes for recline bar

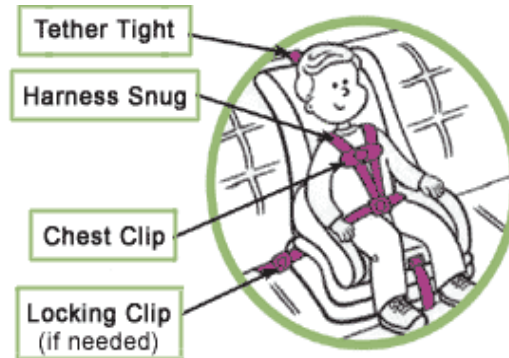
Note: The bottom of the child restraint should be flat on the vehicle seat when installed.

3. Place and secure the child restraint into the vehicle as outlined in pages 10 through 16.



Recline bar

Securing the User in the Child Restraint



Once the child restraint has been properly fitted and installed in the vehicle, follow these instructions to secure the user in the child restraint. Remove bulky coats and/or jackets before putting the child in child restraint.

1. Open the harness and move the harness straps to the side of the child restraint.
2. Place the user in the restraint with his/her back positioned against the back rest in as upright a position as possible.
3. Verify that the harness straps are located in the slots above, but closest to the top of the user's shoulders.
4. If the harness straps are not in the appropriate position, move them according to the instructions provided in **Adjusting the Harness Height** (page 17).
5. Place the harness shoulder straps over each of the user's shoulders, making sure that the straps are not twisted or binding on any object.
6. Fasten the metal latch on each shoulder strap securely into the buckle.
7. Fasten the plastic chest retainer clip and position it in the middle of the user's chest - aligned with the armpits of the user.
8. Check to ensure the harness fit is snug. A proper fit means that you should not be able to pinch the webbing. If needed, adjust the harness fit as noted in **Checking the Harness Fit** (page 17).
9. To remove the user from the child restraint, follow the preceding steps in reverse.

Optional Accessories

The Spirit™ APS™ Child Restraint can be fitted with optional accessories designed to provide a customized fit for each user. Consult your therapist for proper fit.

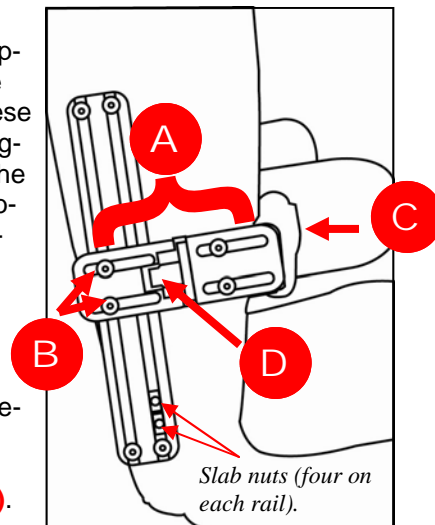
For information on how to install your child restraint's accessories, **consult the instructions that are included with each accessory.**

See page 24 for the complete list of part numbers.

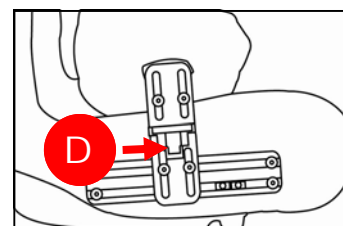
Swing-Away Supports

The child restraint is designed to be easily fitted with swing-away lateral hip and trunk supports that can be adjusted to provide customized support for the user.

1. When ordered with trunk and hip supports, the Spirit APS comes with the mounting rails already installed. These rails are used for mounting the swing-away supports. Locate the rails on the child restraint by pulling back the fabric flaps on each side of the child restraint.



2. To mount the swing-away arm onto the rail, locate the slab nuts already inserted in the mounting rail (2 on each track). Slide the arm into the desired position, making sure that the slab nuts are aligned with the open grooves on the latch mechanism (A). To lock the arm in position, use an Allen wrench to screw the bolt (with washer) through the latch mechanism and into the slab nuts (B). You can use slab nuts on either track depending on the desired positioning of the swing-away support.



3. To adjust the lateral support depth (how close the supports are to the user's body), simply loosen the bolts (C) on the face of the arm, then slide the bracket in or out. Tighten the bolt to lock it in place. Wrap the fabric sleeve around the arm to protect the user from the metal edges.
4. To "swing away" the supports, just press on the latch trigger (D).

Optional Accessories (continued)



Seat Depth Extender

The Spirit™ APS™ Child Restraint can be ordered with a seat depth extender and arrives already assembled. However, a seat depth extender can also be ordered separately and easily installed.



Swing-Away Abductor

The swing-away abductor is used to separate the knees to improve hip alignment and stabilize seating posture.



Extensor Thrust Wedge

Changes the seat to back angle by increasing the front height.



Buckle Guard

Prevents a user from inadvertently releasing the harness.

Memory Foam Padding (not pictured)

Provides an extra layer of support and comfort for the user.

Care and Maintenance

Cleaning the Cover

The child restraint cover and support pad covers can be washed for regular cleaning. It is recommended that these items NOT be washed with other items.

- Hand wash or machine wash on “Gentle” cycle with a mild detergent (e.g. Woolite).
- Use warm water.
- Do not use bleach.
- Tumble dry low.
- Do not iron.
- To clean the harness straps, use a sponge, warm water and mild detergent. Do not use abrasive cleansers.
- To clean the buckle, use a damp cloth and mild detergent. Do not use abrasive cleansers.
- Do not disassemble the harness.

Removing the Cover

1. Remove the soft support pads (if present) by releasing the lanyards from the underside of the cover.
2. Open the chest retainer clip and release the metal latches from the buckle.
3. Remove harness completely by first locating the metal bracket securing the top of the harness along the back side of the child restraint. Pull it away to expose 3 to 4 inches (76.2 to 101.5 mm) of the webbing.
4. Turn the metal bracket so the short side will fit through the slot in the back of the child restraint and push it through the slot and the cover (from back to front).
5. Push those same metal brackets through the lower side harness slots (from front to back). The harness assembly should slide out the back of the child restraint. Make sure not to disassemble the 3-bar metal bracket that fastens the harness assembly together.
6. Remove the cover by lifting the edges of the cover over the shell of the child restraint.

Refitting the Cover

- The cover, harness and pads can be reinstalled by the following the preceding instructions in reverse.
-

Part Number List and Descriptions

Model No.	Description
2400	Child restraint (25-130 lbs. capacity). Available in Blue or Walnut.
2425	4-inch Seat Depth Extender
2410	Pressure reducing viscoelastic foam support seat/back insert
2415	Swing-Away Abductor for mounting directly on Model #2400 child restraint (available in Blue or Walnut)
2419	Swing-Away Abductor for mounting with Model #2425 Seat Depth Extender (available in Blue or Walnut)
2471-H	Swing-Away Hip Support Assembly with 2" x 2", 2" x 4" brackets
2473-H	Swing-Away Hip Support Assembly with 2" x 3", 2" x 3" brackets
2477-T	Swing-Away Hip Support Assembly with 2" x 2", 2" x 7" brackets
2474-T	Swing-Away Hip Support Assembly with 2" x 4", 2" x 4" brackets
2473-T	Swing-Away Trunk Support Assembly with 2" x 3", 2" x 3" brackets
2472-T	Swing-Away Trunk Support Assembly with 2" x 2", 2" x 3" brackets
2471-T	Swing-Away Trunk Support Assembly with 2" x 2", 2" x 2" brackets
2481	Hip Support Pad. Available in S, M, L. Pad dimensions are: S (3" x 6"), M (4" x 8"), L (4" x 12")
2482	Trunk Support Pad. Available in S, M, L. Pad dimensions are: S (3" x 3"), M (3" x 5"), L (4" x 6")
2401	Replacement head support (available in Blue or Walnut)
2455	3-inch Extensor Thrust Wedge
2403	Replacement 5-point Harness Assembly
2408	Replacement Recline Bar
2402	Replacement Seat Cover (available in Blue or Walnut)
2407	Replacement Shoulder Strap Pads (pair - available in Blue or Walnut)
2404	Replacement Crotch Strap Pad (available in Blue or Walnut)
2400P-01	Tether Strap
2417	Replacement 3-bar slide adjuster

Copy of Product Registration Card

FOR YOUR SAFETY

Please promptly fill out and return the attached card.

Although positioning restraint systems undergo testing and evaluation, it is possible that a restraint could be recalled.

In case of a recall, we can reach you only if we have your name and address, so please fill in the registration form to be on our recall list.

In order to properly register your positioning restraint system, you will need to provide the model number, serial number and date of manufacture. This information is printed on the registration card.

Please fill this card out and mail it NOW.

The card is already addressed and the postage is paid.

Registration Card

Please tear at perforation and mail this portion.

Please complete the following:

Name: _____

Address: _____

City: _____ State/Province: _____ Zip/Postal Code: _____

Country: _____

E-mail (optional): _____



Child Restraint System

**Serial Number Sticker
Placed HERE**

Date of Manufacture: ____/____/____
(year/month/day)

Manufactured in Santa Fe Springs, CA USA
C0000-11-24

For Notes by User



For Notes by User



Solutions for Daily Living

11724 Willake Street
Santa Fe Springs, CA 90670
Toll Free: (800) 454-6612
Direct: (562) 282-0244
Fax: (310) 305-1718
Email: info@columbiamedical.com
Website: www.columbiamedical.com
© 2010 Columbia Medical Mfg., LLC

COLUMBIA MEDICAL MFG. LLC warrants this product to be free of defects in material and workmanship. Our obligation under this warranty is limited to repair or replacement of any part or entire unit at our option for a period of one year from date of delivery to the original purchaser. The warranty does not include cost of inconvenience, property damage, misuse, abuse, crash or similar incidents. The warranty will not apply if product has been tampered with or repaired by unauthorized individuals.

C0240-00-30

Rev. A (Updated: 5/10)