

Hercules Small US right turning



Instructions for Use

Hercules Small US Special Needs Booster Seat

Use **ONLY** with disabled persons who weigh between 40 lbs and 110.2 lbs (18.2 - 50 kg) **AND** whose height is between 43.4" and 59" (110.1 - 150 cm)

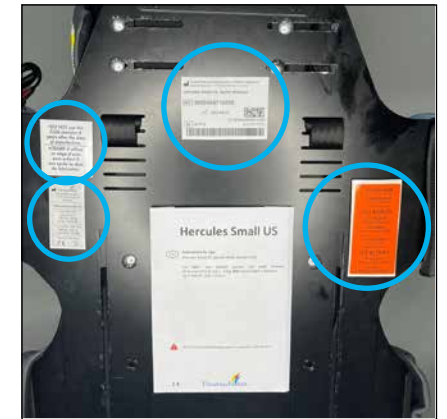


READ INSTRUCTION MANUAL before using this child restraint

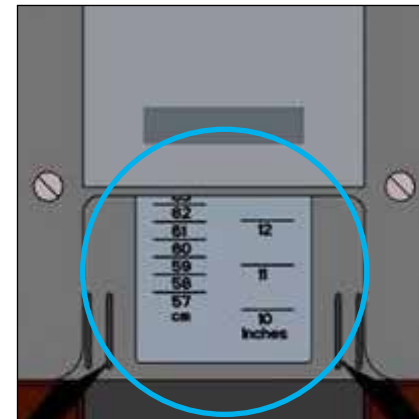




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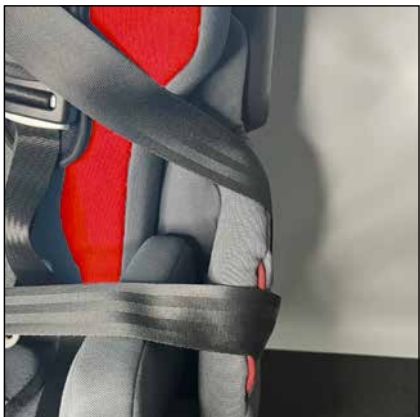
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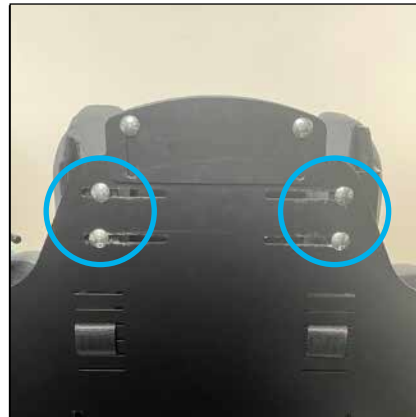
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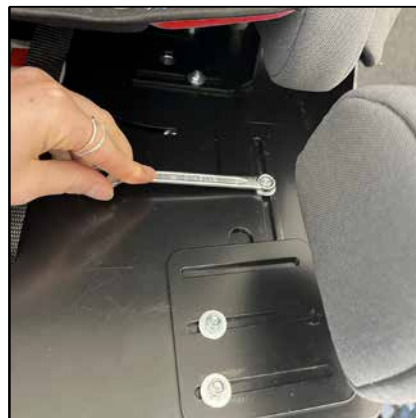
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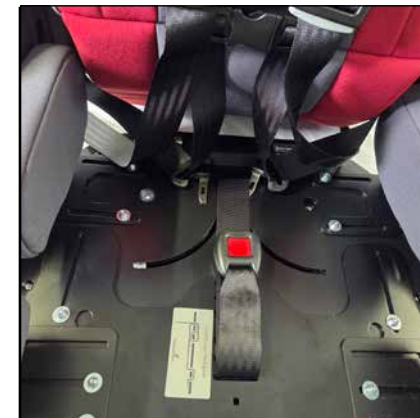
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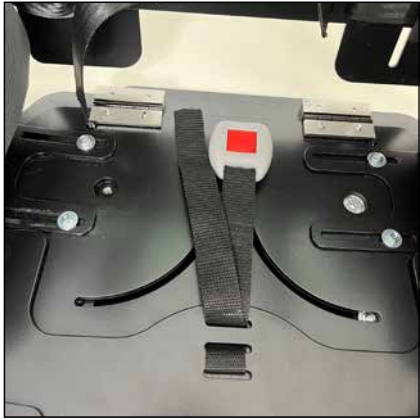
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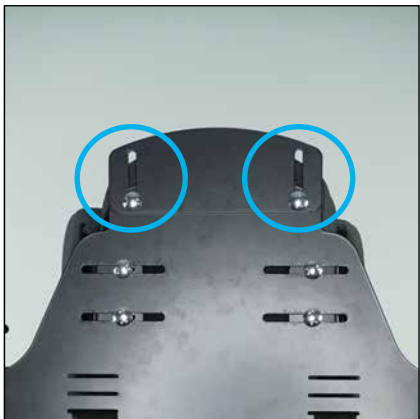
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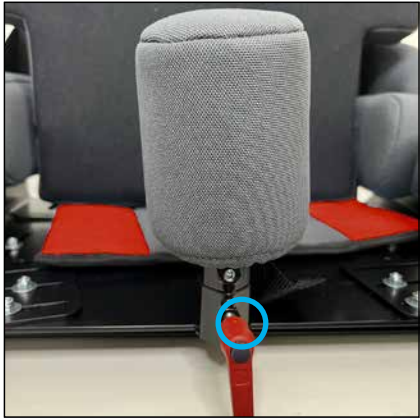
48a only armrest 48b with table



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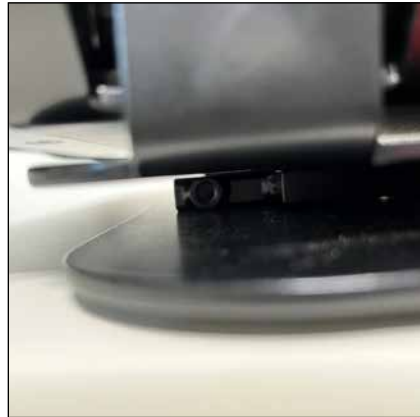
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Welcome to the Thomashilfen family!

To make handling of your new child car seat safe, practical, and comfortable for both you and your child, please read all instructions and warnings before use.

PLEASE NOTE: User manual is stored in a transparent pocket at the backrest of Hercules Small seat. Always keep manual here (Fig. 1).

Should you have further questions or problems, please contact your specialist dealer or us directly. Our address:



Exomotion LLC dba Thomashilfen

14221 29th ST. E ste 101
 Sumner WA 98390
 Phone: 866-870-2122
 email: info@thomashilfen.com
 www.thomashilfen.us

We reserve the right to make technical changes. This can lead to differences between your product and how it is presented in brochures and other media.

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Registration information

Register your new car seat. Restraints could be recalled for safety reasons. You must register this restraint to be reached in a recall. Send your name, address, email address if available, and the restraint’s model name, manufacturing date and serial number (Fig. 2) to:

Thomashilfen NorthAmerica

14221 29th St E, #101 • Sumner, WA 98390 • USA

or call: 866 870 2122 (toll free)

or register online at: www.thomashilfen.us/registry-us



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 www.NHTSA.gov.

Please fill in the information below for future reference. The model number/ serial number and manufacturing date can be found on label on the backrest below storage pocket for instruction manual (Fig. 1).

Model/ Serial Number:

Manufacture Date:

Date of Purchase:

Contact a Child Passenger Safety (CPS) technician

You can find a CPS technician in your area at <https://www.nhtsa.gov/equipment/car-seats-and-boosters-seats#installation-help-inspection>

Intended Purpose

Intended Use / Application Areas

Hercules Small Special Needs Booster Seat is designed to safely transport and proper position disabled children, young people or adults who weigh between **40 and 110.2 lbs (18.2 - 50kg) AND whose height is between 43.4 and 59" (110.1 — 150cm)** in vehicles. The seat is always secured by using the vehicle’s lap and shoulder seat belt. The non load bearing positioning harness (5-point positioning harness) is designed to position and support the passenger in an upright sitting position only.

Hercules Small provides additional support to help the passenger sit securely, stabilizes head control, and offers secure seating for the hip area. The seat can be adjusted to the growth of the user or the physique of different users by adjusting the back height and/or seat depth. In addition, the product offers a wide range of accessories for customized seating and positioning options.

Any use that goes above and beyond this does not comply with the intended use.

Indication / Patient Target Group / Intended Users

The special needs booster seat is for children, adolescents, and adults with structural and / or functional limitations or poor head and trunk control. In addition, for people who are mentally or neurologically impaired or perceptually impaired. It ensures a stable, physiological position if a standard car seat is too small or not suited or if the vehicle’s own seat belt is not sufficient for an upright sitting position in the vehicle.

Risks Associated with Use and Contraindications

If used properly, risks can be eliminated during use. There are no known contraindications.

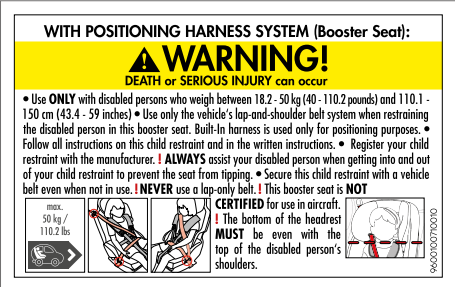
Labels / Model Identification

Label	Meaning
	<p>Barcode label</p> <p>Position on the product (Fig. 2)</p> <ul style="list-style-type: none"> - Manufacturer - Product Name - Item Number - Manufacture Date - Serial Number
	<p>Sticker lifetime</p> <p>Position on the product (Fig. 2)</p> <ul style="list-style-type: none"> - Lifetime of the seat in English and French
	<p>Type plate</p> <p>Position on the product (Fig. 2)</p> <ul style="list-style-type: none"> - Manufacturer - Product Name - User weight / user height - County of origin - CE marking - Follow Instructions for Use

Labels / Model Identification

Label	Meaning
	<p>Crash test label</p> <p>Position on the product (Fig. 2)</p> <ul style="list-style-type: none"> - The product strength certificate in accordance with ECE R 129/03
	<p>Scale back height</p> <p>Position on the product (Fig. 3)</p> <ul style="list-style-type: none"> - For easy adjustment of the back height
	<p>Belt guide</p> <p>Position on the product (Fig. 4)</p> <p>Reference to the belts:</p> <ul style="list-style-type: none"> - Shoulder straps (back plate top) - Lap belts (back plate bottom) - Crotch strap (seat plate)

Labels / Model Identification

Label	Meaning
<p>SEE INSTRUCTION MANUAL FOR COMPLETE INSTRUCTIONS AND WARNINGS</p> <p>This child restraint system conforms to all applicable Federal Motor Vehicle Safety Standards. This Restraint is Not Certified for Use in Aircraft. Child restraints could be recalled for safety reasons. You must register this restraint to be reached in a recall. Send your name, address, e-mail address if available, and the restraint's model number and manufacturing date to Thomashilfen North America, 14221 29 th ST.E, Unit 101, Sumner, WA. 98390, USA or call 1-866-870-2122 or register online at https://www.thomashilfen.us/registry-us</p> <p>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.</p> <p style="text-align: right;">9600100900000</p>	<p>Recall sticker USA</p> <p>Position on the product (Fig. 5) - Registration of the seat explained in English</p>
 <p>WITH POSITIONING HARNESS SYSTEM (Booster Seat):</p> <p>WARNING! DEATH or SERIOUS INJURY can occur</p> <p>• Use ONLY with disabled persons who weigh between 18.2 - 50 kg (40 - 110.2 pounds) and 110.1 - 150 cm (43.4 - 59 inches) • Use only the vehicle's lap-and-shoulder belt system when restraining the disabled person in this booster seat. Built-In harness is used only for positioning purposes. • Follow all instructions on this child restraint and in the written instructions. • Register your child restraint with the manufacturer. • ALWAYS assist your disabled person when getting into and out of your child restraint to prevent the seat from tipping. • Secure this child restraint with a vehicle belt even when not in use. • NEVER use a lap-only belt. • NOT CERTIFIED for use in aircraft. • The bottom of the headrest MUST be even with the top of the disabled person's shoulders.</p>	<p>Warning label English</p> <p>Position on the product (Fig. 6)</p> <ul style="list-style-type: none"> - User weight - User height - Follow Instructions for Use - Direction of travel

Warnings and Safety information

▲ WARNING! Death or SERIOUS INJURY can occur

WARNING - Read and understand all instructions and warnings in this manual, and those labeled on your child restraint carefully before first use. Failure to do so can result in the **SERIOUS INJURY** or **DEATH** of your child.

If you have difficulty reading, please have them read to you. If the copy of the Instructions for Use is missing, you can download one from www.thomashilfen.us.

Certifications

This child restraint system conforms to all applicable Federal Motor Vehicle Safety Standards (FMVSS 213).

This child restraint is certified for use in passenger and multi-purpose passenger vehicles, buses and truck equipped with lap and shoulder belt systems **ONLY**.

THIS RESTRAINT IS NOT CERTIFIED FOR USE IN AIRCRAFT. Aircraft seat do not have lap and shoulder belt systems which are required for use with this booster seat.

Safety Instructions

Changes to the product are only permitted within the scope of the intended adjustment options.

All labels have to remain on the product and should not be tampered with.

Check at least every 3 months that the settings on the product still work for the user's current body measurements. If you need help, have a distributor, assistive technology professional or therapist adjust the settings.

Do regular checks to make sure that the booster seat is adjusted properly to your child's needs. Check that all the nuts, bolts and screws are tightened.

Be careful of the moving parts when adjusting or folding the product.

Never use the seat's straps to lift or carry the seat. Only lift up the product by its firmly welded or screwed parts.

The product only should be used by one user at a time.

The seat and the user always must be secured with the vehicle's lap and shoulder belt system. The user must always be positioned with the non load bearing positioning harness (5-point positioning harness). Make sure that the straps do not sag or twist.

Before each journey, check that the booster seat is properly secured.

Even when not occupied, this booster seat must be properly secured with the vehicle's lap and shoulder belt system. In the event of an accident, an unsecured seat can cause serious injury to the vehicle occupants.

⚠ WARNING! DO NOT recline Hercules backrest when booster is occupied.

Please note the safety standards which apply to your vehicle as outlined in the vehicle's Instructions for Use to ensure the safety of the user.

The Instructions for Use have to remain with the booster seat.

If there is a serious and unexpected accident with the product, please inform our company immediately and the responsible authorities.

WARNINGS

⚠ WARNING! Death or SERIOUS INJURY can occur

ONLY use Hercules Small US with children who weigh between 40 lbs and 110.2 lbs (18.2 - 50kg) AND whose height is between 43.4" and 59" (110.1 — 150cm)

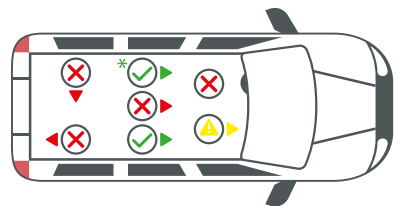
Discontinue use of this child restraint if it is older than **EIGHT (8) YEARS** after manufacture date.

Follow all labels on this child restraint and in these written instructions. **DO NOT INSTALL OR USE THIS CHILD RESTRAINT UNTIL YOU READ AND UNDERSTAND THE INSTRUCTIONS IN THIS MANUAL AND IN YOUR VEHICLE OWNER'S MANUAL.**

Vehicle Seat Location

You **MUST** use the vehicle lap-and-shoulder belt system when restraining the child in this booster seat.

Use this child restraint forward facing only. Side-facing or rear-facing seats **CANNOT** be used. Refer to the vehicle owner's manual for child restraint installation for your specific vehicle.



*IMPORTANT:

When placing Hercules Small on the left back seat, swivel function will not be available.

According to accident statistics, **CHILDREN ARE SAFER WHEN PROPERLY RESTRAINED IN REAR VEHICLE SEATING POSITIONS THAN IN THE FRONT SEATING POSITION.**

Air bag

NEVER PLACE THIS CHILD RESTRAINT IN A VEHICLE SEATING LOCATION THAT HAS AN ACTIVE AIRBAG. An inflating airbag may cause serious injury or death.

Refer to your vehicle owner's manual for information about airbags and child restraint installation.

This child restraint must **NOT** be used in homes, boats, buses, motorcycles, motor homes, or any other vehicles that have non-forward-facing seats, missing seat belts, or whose seat belts do not meet the requirements of this child restraint.

⚠ WARNING! DO NOT recline vehicle seat back more than 20° from vertical position.

Vehicle Seat Belt Systems

⚠ WARNING! Death or SERIOUS INJURY can occur

Always install this booster seat in vehicle seats with lap and shoulder belt systems. If your vehicle is equipped with inflatable seatbelt skip using upper belt guide.

NEVER USE this booster seat with lap belt only, motorized, door mounted or non-locking seat belts.

Refer to the vehicle owner's manual for vehicle seat belt use for child restraint systems.

⚠ WARNING! Death or SERIOUS INJURY can occur

DO NOT use this child restraint if it is damaged in any way or has missing parts.

DO NOT LEAVE A CHILD RESTRAINT UNSECURED IN YOUR VEHICLE.

PARTS OF THE CHILD RESTRAINT COULD BECOME HOT ENOUGH TO BURN THE CHILD IF LEFT IN THE SUN.

DO NOT, EXCEPT AS DESCRIBED IN THESE INSTRUCTIONS, MODIFY YOUR CHILD RESTRAINT, DISASSEMBLE ANY PART OR CHANGE THE WAY THE HARNESS OR VEHICLE SEAT BELTS ARE USED. This includes any accessories or parts by other manufacturers as non-tested accessories can affect the safety of the child restraint.

DO NOT USE A CHILD RESTRAINT THAT HAS BEEN IN AN ACCIDENT OF ANY KIND.

NEVER leave children alone in a vehicle under any circumstance.

DO NOT allow children to play with this child restraint.

NO CHILD RESTRAINT CAN GUARANTEE PROTECTION WHEN THE VEHICLE IS SERIOUSLY IMPACTED.

Your child restraint reclines to ensure proper installation into your vehicle. The child restraint must be installed so that surface area is in contact with your vehicle seat.

⚠ WARNING!

CHOKING HAZARD Small Parts

The **crotch pad with magnetic lock** is designed to prevent unintentional opening of the seatbelt buckle. **Some or all parts of the magnetic crotch pad may cause choking hazard if swallowed. Keep all parts away from child in a safe location to prevent choking.**

Product Description

Scope of Delivery

Your product is delivered with the standard equipment and comes preassembled. Any accessories ordered along with the product are included in the box and have to be assembled subsequently. A copy of the Instructions for Use is enclosed with the product.

To store your instructions for use, there is a pocket at the backrest of the booster seat. (Fig. 1) The instructions for use must always be carried with the product.

Standard Equipment

Back with integrated height adjustment; seat with integrated seat depth adjustment and seat width and swivel adjustment; continuous back angle adjustment with quick release lever; tilt 10°; breathable upholstery with flame-retardant cover fabric; head rest cushion, back cushion, pelvic cushion, leg guide, seat cushion, chest clip; crotch pad; 5-point belt including strap soft pads; belt guide for 3-point vehicle belt; side impact protectors; prepared mounting options for all accessories; removable covers, machine washable up to 105° F; tested according FMVSS 213

Booster Assembly

Carefully remove the transport protection and the packaging. Keep the packaging material and small parts out of the reach of children to prevent swallowing or choking.

The product is delivered in folded condition. Release the red eccentric levers on both sides of the seat to unfold the seat. (Fig. 8) Then repress the red eccentric levers on both sides of the seat when backrest is in upright position.

Technical Data

Hercules Small US

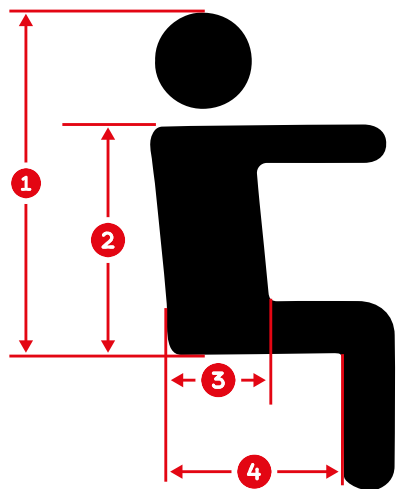
Seat depth	31 - 39 cm / 12.2 - 15.35"
Depth behind crotch strap	20 - 33 cm / 7.9 - 13"
Seat width	21 - 33 cm / 8.7 - 13"
Seat to head	57 - 80 cm / 22.4 - 31.5"
Back width (seat)	45 cm / 17.7"
Shoulder height	36 - 60 cm / 14.2 - 23.6"
Shoulder width	45 cm / 17.7"
Shoulder width with shoulder pad	37 cm / 14.6"
Back angle (max.)	90° - 145°
Seat tilt-in-space (with tilting base 10°)	0° / 2,5° / 5° / 7,5° / 10°
Lower leg length (with foot rest)	16 - 42 cm / 6.3 - 16.5"
Height lateral trunk supports (upper edge)	28 - 34 cm / 11 - 13.4"
Distance lateral trunk supports	20 - 33 cm / 7.9 - 13"
Max. overall dimensions (w x h x d)	55 x 85 x 34 cm / 21.7 x 33.5 x 13.4"
Min. folded dimensions (w x h x d)	55 x 23 x 60 cm / 21.7 x 9.1 x 23.6"
Weight of seat	11.6 kg / 25.6 lbs
Body size user	110.1 - 150 cm / 43.4 - 59"
User weight	18.2 - 50 kg / 40 - 110.2 lbs

Before installation in a vehicle, ensure that the measurements are correctly adjusted to the user.

Remark: The assembly / disassembly of accessories is done with standard tools.

- Allen key MM (SAE): size 3 (7/64) / size 4 (5/32) / size 5 (3/16)
- Open-ended wrench MM (SAE): size 8 (5/16) / size 10 (3/8) / size 13 (1/2)

Please determine user measurements:



- 1 Seat to head
- 2 Shoulder height
- 3 depth behind crotch strap
- 4 Seat depth

Needed Seat to head

Needed Shoulder height

Needed Seat depth

Needed depth behind crotch strap

Pre-set measurements when the product is delivered:

Seat to head (back height): 26.5" (can be reduced to 22.4" and increased to 31,5")

Shoulder Height: 18.9" (if the back height is decreased, the shoulder height will also decrease to a minimum of 14.2" and if the back height is increased, the shoulder height will also increase to a maximum of 23.6"); (can be reduced another up to 0,4" can be reduced another 0.4" by modifying the belt guide)

Seat depth: 12.2" (can be increased to 15.35")

Depth behind crotch strap: 10" (can be decreased to 7.9" and increased to 13". For adjustments and features refer to page 30 to 33.

⚠ WARNING! Death or SERIOUS INJURY can occur

You **MUST** use either lower anchor connection or stabilizing bow (if no lower anchors are available) to install Hercules Small in a vehicle for stability reasons **ONLY**.

Lower Anchors connection (479)

You **MUST** install Lower Anchors connection if lower anchors are available in your vehicle for stability reasons.

Guide the Lower Anchors connection fully into the rectangular receivers under the seat plate. (Fig. 9) Make sure direction is not upside down (Fig. 10)

Insert the 4 supplied Allen screws (2 on each side) into the rectangular receptacles under the seat plate and tighten the 4 Allen screws firmly using the allen key size 4. (Fig. 10)

Place Hercules Small onto the vehicle seat and push the Lower Anchors connection (with yellow release button) into the vehicle's lower anchors until you hear them **CLICK**. If Lower Anchors connection is securely attached to lower anchors of your vehicle, you will see a green bar next to yellow release button.

Check that Hercules Small connected safely to the vehicle by trying to pull it. The backrest of the Hercules Small must have as much contact with the backrest of the vehicle as possible.

Stabilizing bow (421) installation

Note: The stabilizing bow can also be used upside down, depending on the vehicle seat. To do this, mount the bracket with the bend end either up or down. (Fig. 11) Choose direction where you will get most of stability.

Guide the Stabilizing bow into the rectangular receivers under the seat plate. (Fig. 9)

Insert the 4 supplied Allen screws (2 on each side) into the rectangular sockets using the allen key size 4 under the seat plate so that the stabilizing bar can still move slightly. (Fig. 11)

Determine the required length of the stabilizing bow: To do this, place the booster onto the vehicle seat and guide the stabilizing bow between the seat surface and the backrest of the vehicle seat. Adjust backrest of the Hercules Small so it flushes vehicle's seat back.

Now fully tighten 4 allen set screws so to keep Stabilizing bow in this position. (Fig. 11)

Accessory installation

We recommend to install accessories like additional head pad (494), shoulder pad (483), chest clip (423), upper belt guide (425), armrests (489), Lateral trunk supports (486, 487) and Abduction block (488) before installation in a vehicle.

For accessory installation refer to page 34 to 38.

⚠ **WARNING! Death or SERIOUS INJURY can occur**

You **MUST** use either lower anchor connection or stabilizing bow (if no lower anchors are available) to install Hercules Small in a vehicle for stability reasons **ONLY**.

Installation in the vehicle

Note: Installation in the vehicle is easier if you unfold the folded Hercules Small US after placing the booster onto the vehicle seat.

With Lower anchor connections (479): Place Hercules Small onto the vehicle seat and push the lower Anchors connection (with yellow release button) into the vehicle's lower anchors until you hear them **CLICK**. If Lower Anchors connection is securely attached to lower anchors of your vehicle, you will see a green bar next to yellow release button. (Fig. 12)

Check that Hercules Small connected safely to the vehicle by trying to pull it.

OR with **Stabilizing bow (421) installation**

Note: The stabilizing bow can also be used upside down, depending on the vehicle seat. To do this, mount the bracket with the bend end either up or down. (Fig. 11) Choose direction where you will get most of stability.

Place Hercules Small onto the vehicle seat and guide the stabilizing bow between the seat surface and the backrest of the vehicle seat.

Release the red eccentric levers on both sides of the seat to unfold the seat. (Fig. 7)

Adjust Hercules Small backrest angle to match that of the vehicle seat. (Fig. 13) Then repress the red eccentric levers on both sides of the Hercules Small. (Fig. 7)

Thread the shoulder portion of vehicle's lap and shoulder belt through the upper belt guide. (Fig. 14)

Place both sides of the vehicle lap belt on the lower belt guides. (Fig. 15 + 16)

Buckle vehicle seat belt into place. Ensure it is secure by gently pulling on it. (Fig. 17)

WARNING: If the booster seat is used on a front seat with an airbag, the airbag must be deactivated.

You can also find video instructions on our website:

<https://www.thomashilfen.us/hercules-small-installation>



Securing a child in the booster seat

1. To loosen 5-point positioning harness press red harness adjuster pull chest strap towards you. Repeat this for the other side. (Fig. 18)
2. Unbuckle positioning harness by pressing red buckle release button (Fig. 19) and by pulling the buckle clips out. Move harness straps to the side.
3. Place child in the booster seat with child's back flat against back of the backrest.
4. Adjust headrest height so that bottom will be even or just above (3/4 inch) top of child's shoulders.
5. Place harness straps over child's shoulders and insert buckle clips until they 'click' into place. (Fig. 19) **ENSURE** that harness clips and buckle are properly fastened by gently tugging on each. **ENSURE** that the straps are not twisted.
6. Tighten positioning harness by gently pulling the harness adjuster straps until all slack is removed. **ENSURE** straps are flat and snug against child's shoulders and thighs. (Fig. 20)
7. Thread the shoulder portion of vehicle's lap and shoulder belt through the upper belt guide. (Fig. 14)
8. Guide both sides of vehicle lap belt over the lower belt guides. The diagonal portion is not guided over the lower belt guide. (Fig. 21 + 22) **ENSURE** that shoulder belt lies across child's shoulder and chest, and **NOT** touching child's face or neck.
9. Buckle vehicle seat belt into place and ensure it is secure by gently pulling on it. (Fig. 17)

The lap belt portion MUST be routed on both lower belt guides. (Fig. 23) ENSURE that seat buckle is on the outside of lower belt guide. (Fig. 17)

Adjustment Options / Features

Unfolding booster seat

Release the red eccentric levers on both sides of the seat to fold the seat open. (Fig. 7) Then secure the seat in the desired position. Attach the enclosed pelvic pads. Put the pelvic pads over the side guides with the padded side facing inwards. The pelvic pads that are attached to the back are fixed to the outside and inside of the sheet metal with hook and loop fasteners. (Fig. 8)

Folding booster seat

Release the red eccentric levers on both sides of the seat to fold the seat together. Then secure the seat in the folded position by repressing red eccentric levers on both sides of the Hercules Small. (Fig. 7)

Back height adjustment

Using an Allen key (size 4) and an open-ended wrench (size 10) to loosen the four screws enough so that the backrest plate can be moved up and down. (Fig. 24)

The correct backrest height is reached when upper belt guide is approx. $\frac{3}{4}$ inch/ 2 cm above the user's shoulder. (Fig. 25)

Tighten the four screws again and attach the backrest pad. (Fig. 24)

Back angle adjustment

Release the red eccentric levers on both sides of the seat to change backrest angle. (Fig. 7) Adjust Hercules Small backrest to match that of the vehicle seat. (Fig. 13) Then repress the red eccentric levers on both sides of the Hercules Small. (Fig. 7)

Back extension (head area) (495)

The back extension in the head area provides an enlarged area for the user's head to rest against.

First, pull the back cushion off the top of the back plate.

Use the two holes in the back plate and an open-ended wrench size 10 to screw the back extension to the back plate. (Fig. 47) The slots in the back extension offer the possibility to adjust the height individually to the user. Tighten the nuts firmly.

To mount the backrest cushion, it is necessary to adjust the available length of the backrest cushion. To do this, loosen the lower end of the backrest cushion under the seat cushion. Now the back cushion is pulled back over the top of the extension of the back plate. Now the lower end of the back pad is fastened again under the seat pad on the Velcro strap.

Headrest adjustment

The headrest is used to support and position the head and provides optimum protection for the user. The two sides can be adjusted independently in height and width.

Loosen the backrest upholstery at the top of the backrest plate to gain access to the screw connection of the headrest (Fig. 26).

Loosen the screw connection with an open-ended wrench (size 10). Adjust the position of the headrest to the user and fix the screw connection again. (Fig. 27)

Pull the backrest cushion over the top of the backrest plate.

Headrest extension (sides) (496)

This side extension of the headrest protects users who are sensitive to sensory overload while driving.

Likewise, the extension is suitable for users who need greater support on the sides. The extension can be adjusted individually for each side

To install the extension, first pull the cushion off the headrest (Fig. 45).

Mount the extension in the slots and tighten the screws with the allen key size 4 and the open-ended wrench size 10. (Fig. 46)

Now mount the cushion back onto the headrest. For the correct fit, stick the supplied Velcro strip onto the headrest and attach the cushion to it.

Remove the original Velcro strip from the headrest to avoid damaging your vehicle.

Seat depth adjustment

Note: Change the setting outside the car to allow for sufficient space.

Note: Adjust tilt angle before tighten 2 screws for seat depth adjustment.

Detach the two seat cushion from the seat plate to gain access to the nuts on the seat. Loosen the seat depth adjustment screws under the seat with an Allen key (size 3). (Fig. 28) Hold the nuts above the seat plate with an open-ended wrench (size 8). (Fig. 29) Slide the upper seat plate to the desired depth. Then tighten the two screws and attach the seat cushion to the hook and loop fasteners on the seat plate.

Crotch strap adjustment

Note: Change the setting outside the car to allow for sufficient space.

The crotch strap can be used in two positions on the seat. Loosen the belt buckle and remove the crotch pad and the seat cushion from the seat plate. (Fig. 30) It is best to place the Hercules Small US seat on the back plate and loosen the seat depth screw connection. The two screws can be reached from below. (Fig. 28) The nuts can be found on the seat depth plate. (Fig. 29) Pull the seat depth plate out as far as possible. Now you can adjust the position of the crotch strap. Please make sure that it is threaded correctly, refer to the illustration on the seat depth plate.

Crotch strap position for small users (Fig. 31)

Crotch strap position for tall users (Fig. 32)

Now set the desired seat depth again and tighten the two screws. Thread the harness buckle through the seat pad and the harness buckle pad. Finally, thread the lower end of the harness shield pad through the seat pad in the same way as the crotch strap.

Adjusting the hip guide

The two pelvic guides provide support and positioning in the pelvic area. They can be adjusted independently of each other.

Lift the seat cushion at the back to gain access to the pelvic guide screw connection. (Fig. 26)

Loosen the two screw connections on each side with an Allen key (size 3) (from below) and an open-ended wrench (size 8) (on the seat plate). (Fig. 33 + 34)

Set the desired width and tighten the screws again.

The seat cushion can simply be put back again.

Adjusting the leg guides

The two leg guides provide support and positioning in the thigh area. They can be adjusted independently of each other.

The screw connection is located underneath the seat plate. If the seat depth is the smallest, the seat depth must first be pulled out to gain access to the screw connection of the leg guide. If the seat depth is not set in the smallest position, there is direct access to the screw connection below the seat plate.

Use an Allen key (size 3) to loosen the two screw connections on each side and adjust the width as desired. Now retighten the screws. Check that the seat cushion is correctly seated.

5-point positioning belt

Note: The 5-point positioning belt is **ONLY** used to hold the user in a correct seating position. It is a non load bearing positioning harness. **ALWAYS** secure the user in the booster seat with vehicle's lap and shoulder belt.

Adjusting the height of the shoulder straps

Loosen the shoulder straps behind the back padding. (Fig. 35) Then pass them through the belt guides in the back plate at a height suitable for the user. (Fig. 35) Please ensure that the straps are threaded correctly into the back plate, an illustration for this is located directly on the back plate. (Fig. 3)

Changing the strap length (shoulder straps)

Pull on the loose straps to shorten and tighten the straps. To lengthen the straps, press grey harness adjuster pull chest strap towards you. Repeat this for the other side. (Fig. 18)

Changing the belt length (lap belt)

If the adjustment on belt straps is not sufficient, you can also adjust the pelvic belt in the lower area of the backrest plate. To do this, loosen the threaded belt and adjust it to the desired length. Make sure that the end of the strap protrudes at least 5 cm / 2" from the slot in the backrest plate. (Fig. 36)

Chest clip

First detach the back pad bonnet from the back plates to gain free access to the threaded shoulder strap. To insert the belt connector, unthread the shoulder belts from the back plate and remove the shoulder belt pad. Now the belt connector can be threaded onto the belt of the non load bearing positioning harness (5-point positioning harness). (Fig. 61) The shoulder belt pad is again positioned on the belt above the belt connector. Then the belt end of the non load bearing positioning harness (5-point positioning harness) is threaded back into the back plate. Please make sure that the belt is not twisted and threaded onto the back plate according to the illustration (Fig. 62).

Tip: First completely assemble the chest clip on one side before you loosen the second side.

Belt buckle

To open, press on the red buckle release button and pull out the two belt clips. To close the belt, insert the belt buckle clips individually into the belt buckle until they click into place with an audible "click".

Swivel function

Note: If the vehicle seat does not have a straight support surface for the booster seat, the accessory "leveling and protection cushion" (513) is strongly recommended. The seat surface of the Hercules Small must rest on an area as large as possible, especially when using the swivel function. The swivel function allows the carer to turn the unbuckled seat to the left vehicle door **ONLY** to facilitate getting the child in and out of the vehicle much easier.

To swivel the Hercules Small, press the red release lever (Fig. 37) and turn the seat towards the open vehicle door. When turning back, make sure that the release lever audibly clicks into place.

Note: When using Hercules Small on the right back seat swivel function is **NOT** available.

Tilting function

Note: Tilt adjustments **MUST** be done when booster seat is not occupied and during seat depth adjustment (see page 31!)

The tilting function allows Hercules Small US to be tilted backwards in 2.5°-steps from 0° to 10°. To set the desired tilt, loosen the two screws located in the upright rows of holes. Change the tilt angle and put the screws back and tighten with wing nuts.

Upholstery sets and strapping

Back cushion

The "back" cushion set consists of 4 parts. (Fig. 39)

A = head cushion

B = Back cushion

C = 2x side impact protection cover

D = 2x folding joint cover

Seat cushion

The "seat" upholstery set consists of 4 parts. (Fig. 40)

E = Seat cushion

F = 2x pelvic pads

G = 2x leg guide cushion

H = Crotch pad

Seat belt

Set of harnesses

J = 5-point positioning belt

K = 2x shoulder belt pads

Accessories

You can also find detailed assembly instructions in videos on the Internet:
<https://www.thomashilfen.us/hercules-small-installation>



⚠ WARNING! Death or SERIOUS INJURY can occur

Lower Anchors connection (479)

You **MUST** install lower anchors connection if lower anchors are available in your vehicle for stability reasons.

Guide the lower anchors connection fully into the rectangular receivers under the seat plate. (Fig. 9) Make sure direction is not upside down (Fig. 10)

Insert the 4 supplied Allen screws (2 on each side) into the rectangular receptacles under the seat plate and tighten the 4 allen screws firmly using the allen key size 4. (Fig. 10)

Place Hercules Small onto the vehicle seat and push the lower anchors connection (with yellow release button) into the vehicle's lower anchors until you hear them **CLICK**. If Lower Anchors connection is securely attached to lower anchors of your vehicle, you will see a green bar next to yellow release button.

Check that Hercules Small connected safely to the vehicle by trying to pull it. The backrest of the Hercules Small must have as much contact with the backrest of the vehicle as possible.

Stabilizing bow (421) installation

Note: The stabilizing bow can also be used upside down, depending on the vehicle seat. To do this, mount the bracket with the bend end either up or down. (Fig. 11) Choose direction where you will get most of stability.

Guide the Stabilizing bow into the rectangular receivers under the seat plate. (Fig. 9)

Insert the 4 supplied Allen screws (2 on each side) into the rectangular sockets using the allen key size 4 under the seat plate so that the stabilizing bar can still move slightly. (Fig. 11)

Determine the required length of the stabilizing bow: To do this, place the booster onto the vehicle seat and guide the stabilizing bow between the seat surface and the backrest of the vehicle seat. Adjust backrest of the Hercules Small so it flushes vehicle's seat back.

Now fully tighten 4 allen set screws so to keep Stabilizing bow in this position. (Fig. 11) of the vehicle seat. The backrest of the Hercules Small US must have as much contact as possible with the backrest of the vehicle.

Mark the desired position at the junction of the stabilizing bow and the mounts under the seat plate and fully tighten the 4 allen set screws. (Fig. 10).

Leveling and Protection Cushion (513)

Place the cushion under the Hercules Small US booster seat onto the vehicle seat. (Fig. 42) It is used to compensate for the shape of the vehicle seat. In some car seat models, there is little direct contact surface for the Hercules Small US, which can cause damage to the car seat, especially when the seat is swiveling. To minimize this risk, the cushion compensates for the shape of the seat.

Caution: Using the cushion may increase the overall height of the Hercules Small US. There should be a distance of at least 5 cm / 2" between the top of head and the roof of the vehicle to ensure that users can still sit comfortably.

Lateral trunk supports, rigid (486)/ swing-away (487)

The Lateral trunk supports support for the upper body that can be individually adjusted to the user in height and width. The two pads are adjusted independently of each other, thus enabling optimum adaptation to the user.

The Lateral trunk supports are mounted in the two slots of the back plate. (Fig. 43)

To mount the pads, first loosen the back pad at the top of the back plate. (Fig. 26) Mount the Lateral trunk supports on the front of the back plate. (Fig. 44) Insert the screws from behind through the back plate and the bracket. Install the nuts from the front. Tighten the nuts firmly with the allen key size 4 and the open-ended wrench size 10. Now the back pad can be pulled over the back plate again.

Attention: Lateral trunk supports and upper body guides cannot be used at the same time!

Additional head pad (494)

The additional head cushion provides a reduction in the size of the headrest. The filling can be adjusted individually in the 3 chambers (center and both sides) by removing filling material. When shipped, the pillow reduces the width of the headrest by a total of 3.9". Use the zipper on the back of the pad for this purpose.

To assemble, loosen the back cushion at the top of the back plate. Now pull the elastic band of the pad over the top of the back pad. Now pull the back cushion over the top of the back plate.

Shoulder pad (483)

The shoulder pads provide support in the shoulder area. The shoulder pad reduces the shoulder width by 1,6" per side. The two elastic straps are pulled over the side impact protection. One band is placed on the back and one band on the side.

Armrests (489)

Note: When used with table (491), you need to mount table's plug in fastener to armrest first. (Fig.41)

The armrests provide a support surface for each arm of the user. The armrests are mounted in the two slots in the back plate. (Fig. 48). Insert the screw through the back plate and the bracket from behind. The nuts are mounted from the front. The armrests can be adjusted in height. Tighten the nuts firmly using the allen key size 4 and the open-ended wrench size 10. For easy positioning of the user, the armrests can be swiveled upward. (Fig. 49) When the user is safely positioned, the armrests are swiveled down again.

Table (only in conjunction with the armrests) (491)

The table provides continuous, large-area support for the forearms.

First mount the armrests. Now position the table on the armrests. (Fig. 50). Connect the table to the armrest on each side using the plug-in fastener. (Fig. 51) The position of the table can now be adjusted using the lower straps. (Fig. 52) Then pull the elastic straps at the bottom of the front end of the table over the armrests on both sides.

Abduction block (488)

The abduction block supports the positioning of the legs and prevents them from crossing. The holder for the abduction block is positioned on the top of the seat depth plate and screwed from below. (Fig. 53) The abduction block is guided into the holder with the square tube and locked with the tommy screw. (Fig. 54)

If height adjustment is required, the set screw can be loosened with an Allen key (size 3). (Fig. 55) Now the square tube can be extended downwards. The set screw is tightened again. This provides you with a larger height adjustment range.

Footrest, foldable (481)

The footrest provides support for the user's feet. The footrest is folded up for getting in and out. A magnet secures this position of the footrest. (Fig. 56)

The footrest is pushed from the front into the receptacle under the seat plate. (Fig. 57) Adjust the depth of the footrest to the seat in the vehicle. Screw the footrest laterally under the seat plate with the enclosed 2 grub screws (1 per side) using the allen key size 4. (Fig. 58)

Use the red eccentric levers on both sides to adjust the desired angle. Make sure that the eccentric levers point downwards after adjustment. (Fig. 59)

Select the height of the lower cross connection so that it supports the Hercules Small securely in the footwell of the vehicle. The height can be adjusted using the side screws. (Fig. 60) Make sure that the two Allen screws are present on the footrest.

If the footrest is not at the appropriate height for the user, loosen the set screws on the footrest on both sides. Adjust to the appropriate height for the user and retighten the set screws.

Stand (480)

The stand is inserted from the front into the receptacle under the seat plate. (Fig. 57) Adjust the depth of the stand to the seat in the vehicle. Screw the stand to the sides under the seat plate with the 2 supplied grub screws (1 screw per side) using allen key size 4. (Fig. 58) With the red eccentric levers on both sides the desired angle can be adjusted. Make sure that the eccentric levers point downwards after adjustment. (Fig. 59)

Choose the height of the lower crossbar so that it supports the Hercules Small US seat securely in the vehicle's footwell. The height can be adjusted using the side screws. (Fig. 60)

Upper belt guide, additional (492)

Changing vehicle seat location from right (standard) to left side

Depending on the position of the Hercules Small booster seat in the vehicle, the upper red belt guide may be required on the other side of the seat.

First unscrew the black angle from the back plate using the size 13 open-end wrench and the size 5 Allen key (Fig. 63). Mount the bracket on the other side of the back plate.

Now loosen the upper belt guide on the black bracket and correct the position of the upper belt guide to ensure optimum belt routing in the vehicle. (Fig. 64)

Incontinence seat cover

The incontinence seat cover is placed on the seat cushion (Fig. 65), then the small hook straps are attached to the back of the back cushion. The long strap is passed around the backrest and fastened in the plastic buckle. The seat cushion is now pushed forward and fastened under the seat cushion with the front hook strap.

It is possible to insert other commercially available absorbent pads into the incontinence seat pad to increase the absorption capacity if required.

Front cover

Detach the seat cushion from the front edge of the seat and attach the Velcro strip of the front cushion to the front part of the base. The front cushion is folded down to the front and upholsters the front edge. (Fig. 66)

Crotch pad with magnetic lock (434)

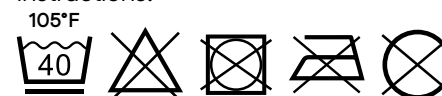
⚠ WARNING!
CHOKING HAZARD Small Parts

It is designed to prevent unintentional opening of the seatbelt buckle. **Some or all parts of the magnetic crotch pad may cause choking hazard if swallowed. Keep all parts away from child in a safe location to prevent choking.**

Cleaning, Care Instructions, and Disinfection on a Daily Basis

Padding

The padding can be easily removed in a few simple steps and washed separately. The padding consists of a fabric cover and sometimes fillers made of foam. Check if the padding has a zipper or a hook and loop fastener. If it does, open the padding and remove the foam filler before washing the cover. Please also note the following care instructions.



We would like to point out that even high-quality materials can fade as a result of long and intense exposure to sunlight or frequent washing.

Hook and Loop Fasteners

To keep the hook and loop fasteners working well, clean them now and then with a brush. Always close or cover the hook and loop fasteners before washing.

Plastic Parts

The plastic parts on the product can be cleaned and disinfected with standard soap (neutral soap).

Metal Parts

The metal parts on the product can be cleaned and disinfected with standard soap (neutral soap).

Disinfection

Clean the padding, plastic parts, and metal parts before disinfecting.

Wipe all the plastic and metal parts on the product with disinfectant. Only water-based products should be used.

Spare Parts

Only original spare parts should be used for repairs. A list of the spare parts is available at www.thomashilfen.us. To receive the correct spare parts or for possible technical recalls, we normally require the serial number. (See page 18 to 21 Labels)

Removal / installation of spare parts should only be done by qualified staff! In the event of returns, please make sure the product is securely packaged for transportation.

Storage

Store the product in a safe place when it is not being used. Do not lay or put any heavy objects on the product while it is being stored. Protect the product from weather like rain, intense sunlight, and frost. If the product is wet, wipe the metal and plastic parts dry and let the padding dry before storing the product.

Disposal

If the product is no longer usable due to its condition or it has reached the end of its service life, it can be recycled at the local waste disposal company. Please refer to the local guidelines for recycling and disposal.

Technical standards and CE marking

Hercules Small US meets the requirements of FMVSS 213 and has a proof of strength certificate in accordance with the UN standard ECE R 129 and is provided with a CE marking.

Warranty

Limited 2-years warranty

This child restraint is warranted against defective materials and workmanship for two years from the date of original purchase. Thomashilfen will, at its option, provide replacement parts for this product or replace this product. Thomashilfen reserves the right to discontinue or change fabrics, parts, models or products, or to make substitutions.

WARRANTY LIMITATIONS

This warranty does not include damages which arise from negligence, misuse, or use not in accordance with this instruction manual. The use of non-Thomashilfen branded covers, inserts, toys, accessories or tightening devices is not approved by Thomashilfen. Their use could cause this child restraint to fail federal safety standards or perform worse in a crash. Their use automatically voids the Thomashilfen warranty.

LIMITATIONS OF DAMAGES

The warranty and remedies as set forth above are exclusive and in lieu of all others, oral or written, express or implied. In no event will Thomashilfen or the retailer selling this product be liable to you for any damages, including incidental or consequential damages, or loss of use arising out of the use or inability to use this product.

PLEASE REGISTER THIS CHILD RESTRAINT WITHIN 30 DAYS OF PURCHASE TO EXPEDITE WARRANTY CLAIMS AND TO VERIFY ORIGINAL DATE OF PURCHASE.

Period of Use

The product has a period of use of up to 8 years if used correctly as per the information in this manual.

The period of use does not apply to wear parts like padding, covers, etc.

Distributor



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