

# Hercules Prime US left turning



## Instructions for Use

Hercules Prime US Special Needs Booster Seat

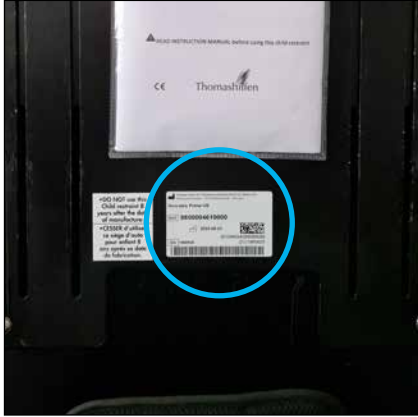
Use **ONLY** with disabled persons who weigh between 40 lbs and 176.4 lbs (18.1 - 80kg) **AND** whose height is between 51.1" and 70.9" (130 – 180cm).



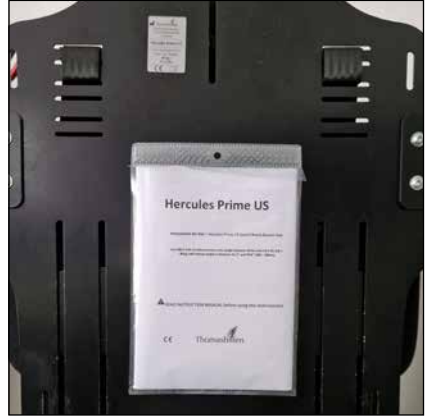
READ INSTRUCTION MANUAL before using this child restraint



# Hercules Prime US



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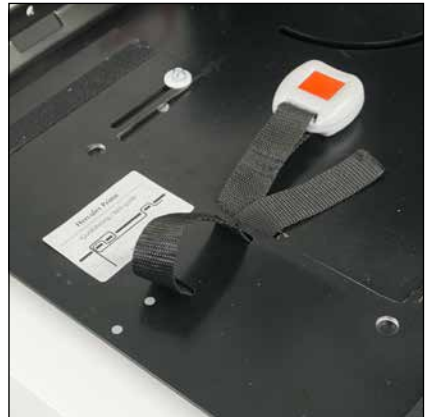
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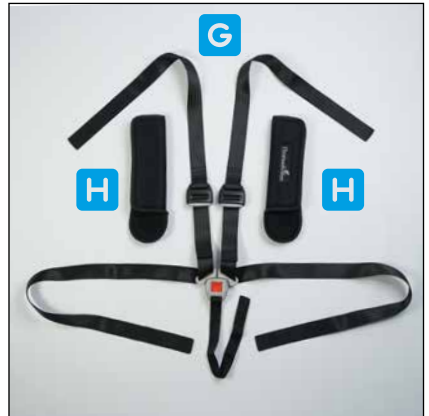
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**Welcome to the Thomashilfen family!**

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 Prime seat. Always keep manual here (Fig. 2).

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](mailto:info@thomashilfen.com)[www.thomashilfen.us](http://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. 1) 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](http://www.thomashilfen.us/registry)



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](http://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-booster-seats#installation-help-inspection>

## Intended Purpose

### Intended Use / Application Areas

Hercules Prime Special Needs Booster Seat is designed to safely transport and proper position disabled children, young people or adults who weigh between **40 and 176.4 lbs (18.1 - 80kg) AND whose height is between 51.1 and 70.9" (130 – 180cm)** in vehicles. The seat is always secured by using the vehicle's lap and shoulder seat belt. The 5-point positioning harness is designed to position and support the passenger in an upright sitting position only.

Hercules Prime 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


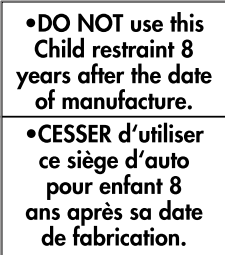


The special needs booster seat is for children, adolescents, and adults with structural and / or functional limitations or poor head and trunk control. In addition, for people who are mentally or neurologically impaired or perceptually impaired, for example dementia patients. It ensures a stable, physiological 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

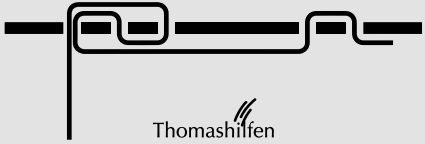

If used properly, risks can be eliminated during use.

There are no known contraindications.

# Labels / Model Identification

Label	Meaning
 <p>Thomas Hilfen für Körperbehinderte GmbH &amp; Co. Medico KG Walkmühlenstraße 1 - 27432 Bremervörde - Germany</p> <p><b>Hercules Prime US, left turning</b></p> <p>REF <b>9800004611000</b></p> <p>2023-08-23</p> <p>(01)04034089091259 (21)1982866</p> <p>SN <b>1982866</b></p>	<p><b>Barcode label</b></p> <p>Position on the Product (Fig. 1)</p> <ul style="list-style-type: none"> <li>- Manufacturer</li> <li>- Product Name</li> <li>- Item Number short / long</li> <li>- Manufacture Date</li> <li>- Serial Number</li> </ul>
 <p><b>•DO NOT use this Child restraint 8 years after the date of manufacture.</b></p> <p><b>•CESSER d'utiliser ce siège d'auto pour enfant 8 ans après sa date de fabrication.</b></p>	<p><b>Sticker lifetime</b></p> <p>Position on the product (Fig. 1)</p> <p>Lifetime of the seat in English and French</p>
 <p>Thomashilfen Walkmühlenstraße 1 27432 Bremervörde Germany</p> <p><b>Hercules Prime US</b></p> <p>max. Nutzergewicht / max. user weight: <b>80 kg / 176.4 lbs</b></p> <p>CE</p>	<p><b>Type plate</b></p> <p>Position on the product (Fig. 2)</p> <ul style="list-style-type: none"> <li>• Manufacturer</li> <li>• Product Name</li> <li>• Max. user weight</li> <li>• CE marking</li> </ul> <p>Follow Instructions for Use</p>
 <p><b>Hercules Prime</b></p> <p>Festigkeitsnachweis durch Crashtest in Anlehnung an <b>ECE R 44/04</b> Test-Nr. 5220201001</p> <p>Proof of strength by crash test in accordance to <b>ECE R 44/04</b> Test-No. 5220201001</p>	<p><b>Crash test label</b></p> <p>Position on the product (Fig. 33)</p> <p>The product strength certificate in accordance with ECE R 44/04</p>

# Labels / Model Identification

Label	Meaning
<div data-bbox="112 292 560 592" style="border: 1px solid black; padding: 10px; text-align: center;"> <p><b>Hercules Prime</b></p> <hr/> <p>Gurtführung / Belt guide</p>  <p>Thomashilfen</p> </div>	<p><b>Belt guide</b>                  Position on the product (Fig. 3)                  Reference to the belts:</p> <ul style="list-style-type: none"> <li>• Shoulder straps (back plate top)</li> <li>• Lap belts (back plate bottom)</li> <li>• Crotch strap (seat plate)</li> </ul>
<div data-bbox="140 683 532 1018" style="border: 1px solid black; padding: 10px;"> <p><b>SEE INSTRUCTION MANUAL FOR COMPLETE INSTRUCTIONS AND WARNINGS</b></p> <p>This child restraint system conforms to all applicable Federal Motor Vehicle Safety Standards. <b>This Restraint is Not Certified for Use in Aircraft.</b> 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 STE, Unit 101, Sumner, WA, 98390, USA or call 1-886-870-2122 or register online at <a href="https://www.thomashilfen.us/registry">https://www.thomashilfen.us/registry</a></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 <a href="http://www.NHTSA.gov">http://www.NHTSA.gov</a>.</p> </div>	<p><b>Recall sticker USA</b>                  Position is under the product</p> <ul style="list-style-type: none"> <li>• Registration of the seat explained in English</li> </ul>
<div data-bbox="117 1150 554 1422" style="border: 1px solid black; padding: 10px;"> <p><b>WITH POSITIONING HARNESS SYSTEM (Booster Seat):</b></p> <p style="background-color: yellow; text-align: center;"><b>⚠ WARNING!</b> DEATH or SERIOUS INJURY can occur</p> <p>• Use <b>ONLY</b> with disabled persons who weigh between 18.1 - 80 kg (40 - 176,4 pounds) and 130 - 180 cm (51.1 - 70.9 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. • <b>ALWAYS</b> 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. • <b>NEVER</b> use a lap-only belt. • This booster seat is <b>NOT</b> certified for use in aircraft. • The bottom of the headrest <b>MUST</b> be even with the top of the disabled person's shoulders.</p>  </div>	<p><b>Warning label English</b>                  Position is on the side on the pelvic cushion</p> <ul style="list-style-type: none"> <li>• Max. User weight</li> <li>• Max. User height</li> <li>• Follow Instructions for Use</li> <li>• Direction of travel</li> </ul>

## 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](http://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 should 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 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 Prime US with children who weigh between 40 lbs and 176.4 lbs (18.1 - 80kg) AND whose height is between 51.1" and 70.9" (130 – 180cm)**

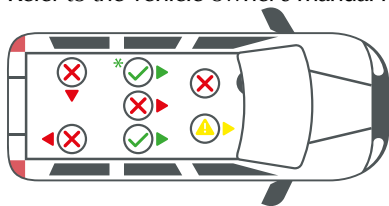
Discontinue use of this child restraint if it is older than EIGHT (8) YEARS after manufacture date.

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 Prime on the right 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.

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 in 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.

## 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. 2) The instructions for use must always be carried with the product.

### Standard Equipment

Seat with integrated seat depth adjustment; chest clip, backrest with integrated back height adjustment; continuous back angle adjustment with quick release lever; swivel function (right door only); tilting function up to 10°; breathable upholstery: head cushion, back cushion, pelvic cushion, seat cushion, crotch pad; 5-point belt including shoulder pads; upper belt guide (can be used on the right or left) and lower belt guides for lap and shoulder vehicle seat belt; mounting options for all accessories.

### 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.

**IMPORTANT:** You MUST attach the enclosed pelvic pads. Put the pelvic pads over the side guides with the padded side facing inwards. The pelvic pad is fixed to the outside and inside of the seat with hook and loop fasteners. (Fig. 9)

## Technical Data

### Hercules Prime US

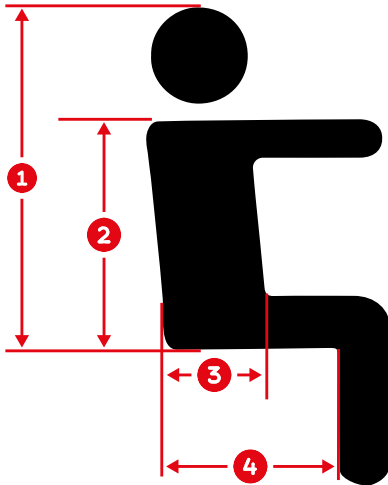
Seat depth	40 - 46 cm / 15.7 - 18.1"
Depth behind crotch strap	24 - 38 cm / 9.5 - 15"
Seat width	40 cm / 15.7"
Seat to head	63 - 76 cm / 24.8 - 29.9"
Back width (seat)	45 cm / 17.7"
Shoulder height	38 - 60 cm / 15 - 23.6"
Shoulder width with shoulder guide	42 - 51 cm / 16.5 - 20.1"
Back angle (max.)	120°
Seat tilt-in-space (with tilting base 10°)	0° / 2,5° / 5° / 7,5° / 10°
Lower leg length (with foot rest)	17 - 43 cm / 6.7 - 16.9"
Height of lateral trunk supports (upper edge)	26 - 36 cm / 10.2 - 14.2"
Distance lateral trunk supports (max.)	35 cm / 13.8"
Max. overall dimensions (w x h x d)	52 x 88 x 43 cm / 20.5 x 34.6 x 16.9"
Min. folded dimensions (w x h x d)	52 x 21 x 73 cm / 20.5 x 8.3 x 28.7"
Weight of seat	13.4 kg / 29.5 lbs
Body height user	130 - 180 cm / 51.1 - 70.9"
User weight	18.1 - 80 kg / 40 - 176.4 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): 24.8" (can be increased to 29.9")

Shoulder height: 15" (if increasing back height = decreasing shoulder height); (can be increased up to 23.6" and reduced up to 3" after back height adjustment if needed)

Seat depth: 15.7" (max 18.1", if increasing seat depth = increasing depth behind crotch strap)

Depth behind crotch strap: 15" (Can be reduced to 12.6" with the seat depth adjustment and can be reduced by 2.7" after seat depth adjustment if needed)

For adjustments and features refer to page 29 to 31.

**⚠ 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 Prime in a vehicle for stability reasons **ONLY**.

**Lower anchor connections (419) installation**

Guide the Lower Anchors connection fully into the rectangular receivers under the seat plate. (Fig. 52) Make sure direction is not upside down (Fig. 53)

Put in the 4 allen set screws supplied (2 on each side) into the rectangular receivers under the seat plate and fully tighten the 4 allen set screws with the key size 4. (Fig. 53)

**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. 54) Choose direction where you will get most of stability.

Guide the Stabilizing bow into the rectangular receivers under the seat plate. (Fig. 52)

Put in the 4 allen set screws supplied (2 on each side) into the rectangular using an allen key size 4 receivers under the seat plate so that the Stabilizing bow can still be moved slightly. (Fig. 53)

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 Prime so it flushes vehicle's seat back.

Now fully tighten 4 allen set screws so to keep Stabilizing bow in this position. (Fig. 53)

**Accessory installation**

We recommend to install accessories like headrest (404), shoulder guides (427), chest clip (423), upper belt guide (425), Lateral trunk supports (405, 429), upper body guides (406, 428), bracket for abduction block (412) and leg guides (415) before installation in a vehicle.

For accessory installation refer to page 31 to 35.

**⚠ 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 Prime in a vehicle for stability reasons **ONLY**.

**Installation in the vehicle**

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

With **Lower anchor connections (419)**: Place Hercules Prime 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. 55)

Check that Hercules Prime 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. 54) Choose direction where you will get most of stability.

Place Hercules Prime 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. 8)

Adjust Hercules Prime backrest angle to match that of the vehicle seat. (Fig. 56)

Then repress the red eccentric levers on both sides of the Hercules prime. (Fig. 8)

Thread the shoulder portion of vehicle's lap and shoulder belt through the upper belt guide. (Fig. 4)

Guide both sides of vehicle lap belt through lower belt guides. The diagonal portion is not guided through lower belt guide. (Fig. 5 and 6)

Buckle vehicle seat belt into place. Ensure it is secure by gently pulling on it. (Fig. 7)

**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:  
[www.thomashilfen.us/hercules-prime-installation](http://www.thomashilfen.us/hercules-prime-installation)



## Securing a child in the booster seat

1. To loosen 5-point positioning harness press grey harness adjuster pull chest strap towards you. Repeat this for the other side. (Fig. 22)
2. Unbuckle positioning harness by pressing red buckle release button (Fig. 26) 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. 57) 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. 58)
7. Thread the shoulder portion of vehicle's lap and shoulder belt through the upper belt guide. (Fig. 59)
8. Guide both sides of vehicle lap belt through lower belt guides. The diagonal portion is not guided through lower belt guide. (Fig. 60 + 61) 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. 62)

**The lap belt portion MUST be guided through both lower belt guides. (Fig. 63)  
ENSURE that seat buckle is on the outside of lower belt guide. (Fig. 64)**

## Adjustment Options / Features

### Unfolding booster seat

Release the red eccentric levers on both sides of the seat to fold the seat open. (Fig. 8) 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 pad is fixed to the outside and inside of the sheet metal with hook and loop fasteners. (Fig. 9)

### 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 prime. (Fig. 8)

### Back height adjustment

Loosen the back cushion at the bottom of the back panels and pull the cushion end forward towards the seat. Pull the back padding so that 4 nuts can be reached. (Fig. 10)

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. 11)

The correct backrest height is reached when upper belt guide is approx.  $\frac{3}{4}$  inch/ 2 cm above the user's shoulder. (Fig. 12)

Tighten the four screws again and attach the backrest pad. (Fig. 10 + 11)

### Back angle adjustment

Release the red eccentric levers on both sides of the seat to change backrest angle. (Fig. 8) Adjust Hercules Prime backrest to match that of the vehicle seat. (Fig. 56) Then repress the red eccentric levers on both sides of the Hercules prime. (Fig. 8)

### Upper belt guide, additional

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

Depending on the position of the Hercules Prime 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. 13). 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. 14)

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

## Seat depth adjustment

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

Detach the 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. 15) Hold the nuts above the seat plate with an open-ended wrench (size 8). (Fig. 16) Slide the upper seat plate to the desired depth. Then tighten all the 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. 17) It is best to place the Hercules Prime US seat on the back plate and loosen the seat depth screw connection. The two screws can be reached from below. (Fig. 15) The nuts can be found on the seat depth plate. (Fig. 16) 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. 18)

Crotch strap position for tall users (Fig. 19)

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.

## 5-point positioning belt

**Note:** The 5-point positioning belt is **ONLY** used to hold the user in a correct seating position. **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. 20) Then pass them through the belt guides in the back plate at a height suitable for the user. (Fig. 21) 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. 22)

## 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. 23)

## 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 (Fig. 27 H).

Now the belt connector can be threaded onto the belt of the 5-point positioning belt. (Fig. 50) The shoulder belt pad is again positioned on the belt above the belt connector. Then the belt end of the 5-point positioning belt 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. 3).

**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".

## Headrest cushion

The head pad is held in place by four hook and loop fastener strips. These are fed through the slot in the backrest padding and attached to the back of the backrest padding. (Fig. 24)

## 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 Prime 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 Prime, pull the red pull-catch (Fig. 25) and turn the seat towards the open vehicle door. When turning back, make sure that the pull-catch audibly clicks into place.

## Tilting function

**Note:** Tilt adjustments MUST be done when booster seat is not occupied!

The tilting function allows Hercules Prime US to be tilted backwards in 2.5°-steps from 0° to 10°. To set the desired tilt, loosen the two screws with an allen key size 4 located in the upright rows of holes. Change the tilt and fix the tilt plate back in place with the screws with an allen key size 4. (Fig. 27)

## **Upholstery sets and strapping**

### **Back cushion**

The "back" cushion set consists of 4 parts. (Fig. 28)

A = head cushion

B = Back cushion

C = 2x side cover

### **Seat cushion**

The "seat" upholstery set consists of 4 parts. (Fig. 29)

D = Seat cushion

E = 2x pelvic pads

F = Crotch pad

### **Seat belt**

Set of harnesses (Fig. 30)

G = 5-point positioning belt

H = 2x shoulder belt pads

## Accessories

You can also find detailed assembly instructions in videos on the Internet:

[www.thomashilfen.us/hercules-prime-installation](http://www.thomashilfen.us/hercules-prime-installation)



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

### Lower Anchors connection (419)

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. Make sure direction is not upside down (Fig. 53)

Put in the 4 allen set screws supplied (2 on each side) into the rectangular receivers under the seat plate and fully tighten the 4 allen set screws using an allen key size 4. (Fig. 53)

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

### Stabilizing bow (421)

**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. 54)**

The stabilizing bow is pushed into the mounts under the seat plate from behind. (Fig. 52) Loosely screw the enclosed 4 threaded pins with an allen key size 4 (2 on each side) into the receptacle so that the stabilizing bow can still be moved. (Fig. 53)

Determine the required position of the stabilizing bow: To do this, place the seat in the vehicle and guide the stabilizing bow between the seat surface and the backrest

of the vehicle seat. The backrest of the Hercules Prime 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 with an allen key size 4. (Fig. 53).

### **Leveling and Protection Cushion (513)**

Place the cushion under the Hercules Prime US booster seat onto the vehicle seat. (Fig. 31) 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 Prime 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 Prime 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.

### **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.

## Headrest (404)

Fitting tip: To fit the headrest, hold the upholstery slot in the backrest upholstery (A) open with a spacer. (Fig. 32)

When mounting the headrest, the threaded rod must be at the bottom. Insert the threaded rod through the upholstery and screw the headrest to the backrest plate at the rear. (Fig. 33)

To adjust the headrest, loosen the screw with an allen key size 4 that holds the headrest. Then the height of the headrest is adjusted to the user and tightened again. (Fig. 23) Make sure that the back of the user's head is centered on the headrest.

The headrest is attached to a ball joint. The headrest can be finely adjusted by loosening the screws with an allen key size 4 under the upholstery of headrest. The headrest must be removed for this fine adjustment.

## Shoulder guides (427)

The shoulder guide provides further support on both sides in the shoulder area of the upper body. One mounting slot is available in the backrest plate on each side. Loosen the backrest padding at the top to gain access. (Fig. 34)

Mount the shoulder guide to the backrest plate on each side from behind with two screws each with an allen key size 4 and the open-ended wrench size 10. (Fig. 35) For individual adjustment of the shoulder width, move the shoulder guides to the desired position. Now tighten the two screws with an allen key size 4 and the open-ended wrench size 10 and attach the backrest pad.

## Lateral trunk supports, rigid (429)/ swing-away (405)

For mounting the lateral trunk supports, 2 slots are available in the backrest plate on each side. These slots are covered by the side covers. (Fig. 36)

Push the lateral trunk support through the slot of the side cover onto the backrest plate to mount the lateral trunk support to the inner slot. (Fig. 37)

If you want to use the outer slot, then remove the side cover and mount the lateral trunk support directly on the backrest plate. (Fig. 38)

Insert the screws from behind through the back plate and the bracket. Install the nuts from the front. Tighten the nuts firmly with an allen key size 4 and the open-ended wrench size 10. Now the back pad can be pulled over the back plate again.

Then attach the side cover back onto the backrest plate and over the holder of the lateral trunk support.

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

**Upper body guide rigid (428) / swing-away (406)**

There are 2 slots in the backrest plate on each side for mounting the upper body guide. These slots are covered by the side cover. (Fig. 38)

Slide the upper body guide through the slot of the side cover onto the backrest plate to mount the upper body guide in the inner slot. (Fig. 39)

If you want to use the outer slot, remove the side cover and mount the upper body guide directly on the backrest plate (Fig. 40).

Insert the screws from behind through the back plate and the bracket. Install the nuts from the front. Tighten the nuts firmly with an allen key size 4 and the open-ended wrench size 10. Now the back pad can be pulled over the back plate again.

Then, put the side cover back on the backrest plate and over the upper body guide holder.

**Abduction block (412)**

The bracket for the abduction block is positioned on the upper side of the seat depth plate and screwed from below with the allen key size 3. (Fig. 41)

The abduction block is guided into the bracket with the square tube and locked at the desired height with the toggle screw. (Fig. 42)

**Leg guides (415)**

The leg guides are screwed to the left and right from below into the pre-drilled holes provided on the seat depth plate (2 screws each). (Fig. 43) Use an Allen key (size 3) to loosen the screw connection and adjust the width as desired. Now retighten the screws. Check that the seat cushion is correctly seated.

They guide the thighs and give the user more support in the thigh area.

**Footrest, foldable (417)**

The footrest is inserted from the front into the receptacle under the seat plate. (Fig. 44) Adjust the depth of the footrest to the seat in the vehicle. Screw the footrest to the sides under the seat plate using the 2 set screws supplied and an allen key size 4 (1 screw per side). (Fig. 45)

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. 46)

Choose the height of the lower crossbar so that it supports the Hercules Prime US seat securely in the vehicle's footwell. The height can be adjusted using the side screws. (Fig. 47)

If the footrest is not at the right height for the user, loosen the footrest set screws on

both sides. Adjust the height to suit the user and tighten the set screws again. (Fig. 48)  
Make sure that both Allen screws are on the footrest.

The folded footplate is held by a magnet. This makes it easier to get in and out of the seat. (Fig. 49)

### **Stand (422)**

The stand is inserted from the front into the receptacle under the seat plate. (Fig. 44)  
Adjust the depth of the stand to the seat in the vehicle. Screw the stand to the sides under the seat plate using the 2 set screws (1 screw per side) supplied. (Fig. 45)

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. 46)

Choose the height of the lower crossbar so that it supports the Hercules Prime US seat securely in the vehicle's footwell. The height can be adjusted using the side screws. (Fig. 47)

### **Upper belt guide, additional (425)**

A second upper belt guide (Fig. 51) can be fitted for flexible use (right and left vehicle back seat location). The vehicle's 3-point safety belt can be used on the right or left side of the car seat without having to switch the upper belt guide. For more information on mounting, see 'Adjustment options – Upper belt guide'.

## 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](http://www.thomashilfen.us). To receive the correct spare parts or for possible technical recalls, we normally require the serial number. (See page 16 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 Prime US meets the requirements of FMVSS 213 and has a proof of strength certificate in accordance with the UN standard ECE R 44/04 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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