

The UPI in Use (continued)

Push the lateral supports in to snugly fit the user and fasten the straps as described earlier. Be careful not to over tighten these straps as this may restrict breathing and cause discomfort.

Fasten the straps on the foot positioners and ensure that the user is firmly supported.

Identification

Each UPI is marked with a code number which should be used during all inquiries with Quest 88 limited. The number is located on the foil label on the base.

UPI Care and Maintenance

- * Keep castors free of dirt, hair and other loose fibres.
- * Do not attempt to move the UPI without releasing the brakes on all four castors.
- * Clean upholstery promptly after soiling. Avoid heavy brushing of upholstery with stiff bristles. Clean upholstery with a damp cloth and mild detergent.
- * Do not clean any part of the UPI with bleach or solvent cleaners.
- * Clean metal work with a slightly damp cloth.
- * Clean woodwork with standard domestic furniture polish.
- * Always store the UPI away from excessive moisture as this may lead to rust and corrosion.
- * Caution must be taken through use, transport and storage not to drop or knock the UPI. Do not store other equipment on top of the UPI or its accessories as this may cause damage.
- * Do not store the UPI where it may block access to doors, walkways or fire exits.
- * The tray is intended to support books, toys, meals etc. Do not place heavy objects on the tray.

MAXIMUM TRAY LOAD: 5kg

Intended Use

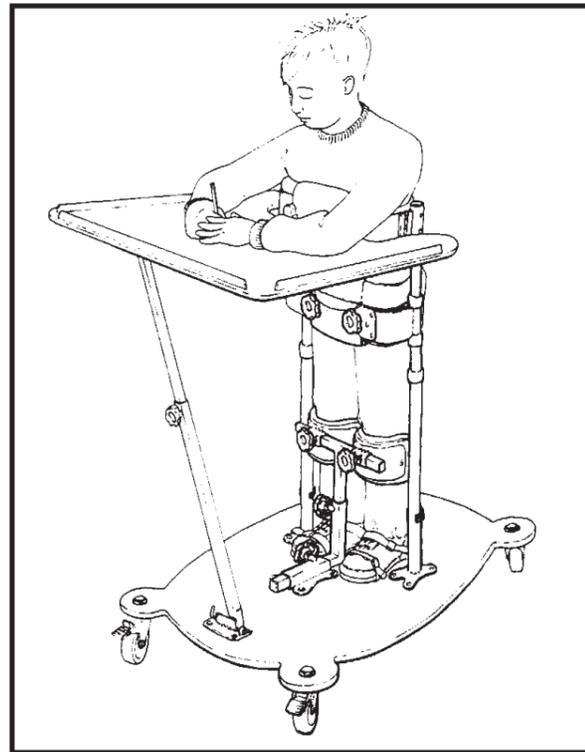
The UPI is intended to be used as part of a standing therapy programme. A level of supervision appropriate to the user's abilities should be applied at all times.

DO NOT EXCEED HEIGHT AND WEIGHT LIMITS SET OUT ON THE FRONT OF THESE INSTRUCTIONS.

The UPI is not intended to position a user at any angle other than vertical and should not be positioned at any reclined angle. Do not use the UPI on any inclined surface.

The UPI is not intended to be used as a lifting, transfer or mobility aid.

The UPI has been manufactured by Quest 88 Limited engineers. Any adjustments or alterations which are not listed in these instructions should not be made without the authorisation of a Quest 88 Limited representative. Any such adjustments will affect the UPI's warranty. Quest 88 Limited do not take any responsibility for any UPI which has been adapted or affected by actions not described in these instructions by any individual not authorised by Quest 88 Limited.



the UPI in use

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USER INSTRUCTIONS

UPI Vertical Stander

These are the user instructions for the UPI Vertical Stander. Please read them carefully before the UPI is used and store them in a safe place. Always refer to these instructions before adjusting the UPI or if you feel the UPI is not performing properly. It is important to familiarise yourself with the UPI. Please follow the procedures described below before setting up the UPI for a user.

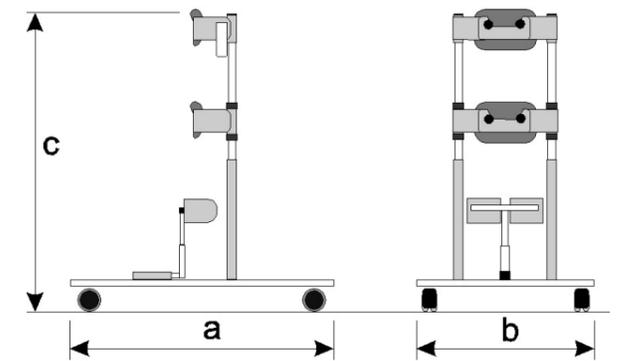
These instructions also include a guide to maintenance and general care. If followed the UPI will provide trouble free service. However, in the event of any deterioration in performance, take the UPI out of service **immediately** and contact Quest 88 limited.

UPI Vertical Stander

The UPI is a simple to use vertical stander. The base supports the height adjustable vertical frame, knee controller unit and foot positioners. The vertical section has independent pelvic and thoracic support height adjustment. The pelvic and thoracic supports have adjustable lateral supports and positioning straps.

A height and angle adjustable tray accessory can be attached to the vertical frame and is supported by a telescoping prop which connects the tray to the base.

The UPI comes in two sizes which have been designed to suit user weight as well as height. The weight and height limits on the size chart must be adhered to at all times to ensure user safety.

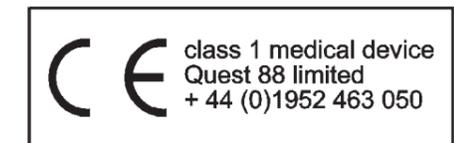


	infant	junior
length (a)	600	750
width (b)	500	600
axilla height (c)	420-650	650-900
max user weight	20 kg	40 kg
product weight	9 kg	12 kg

The UPI is ideally suited for children with balance impairment and/or low muscle tone, who can achieve a standing position but who are unable to maintain that position for any length of time. It should be used as part of a standing therapy routine to help with standing co-ordination and related skills.

Declaration of Conformity

Quest 88 Limited as manufacturer declares that the Upi Standing Frame and associated accessories conforms to the requirements of the 93/42/EEC Guidelines as a Class 1 medical device.



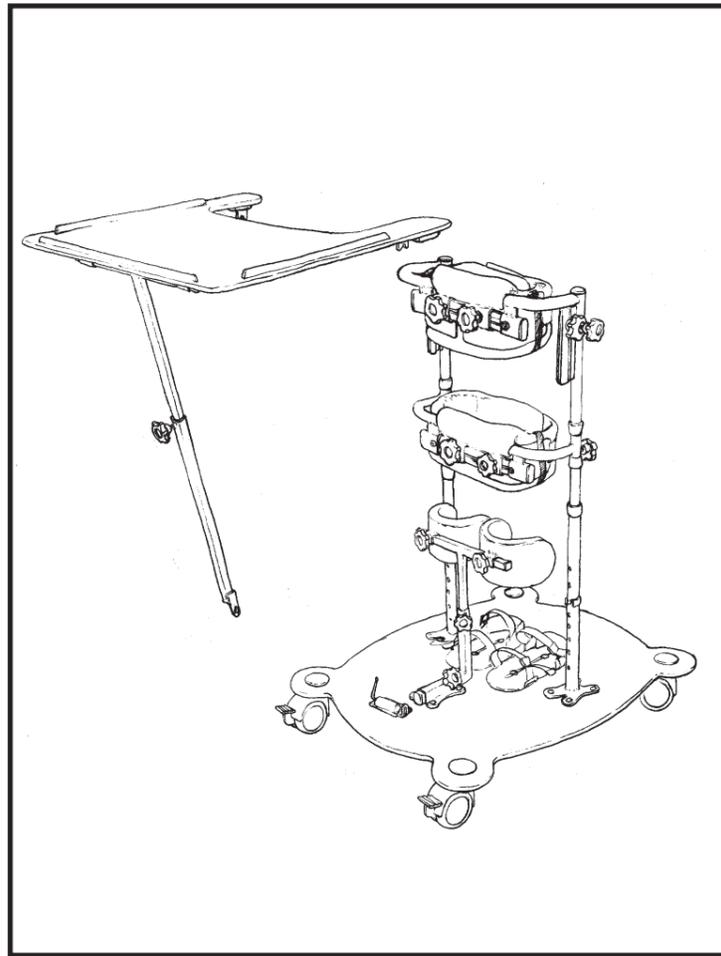
A level of supervision appropriate to the user's abilities should be applied at all times!

Before the UPI is Used

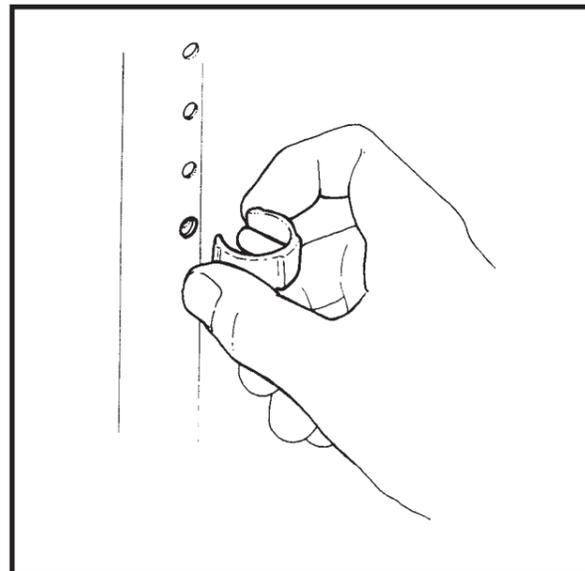
The UPI can be dismantled for transport and storage. Before use it must be correctly assembled. There are three main components to the UPI; the mobile base, the hip/thoracic support section and the tray accessory. It is essential that time and consideration is taken whilst setting up the UPI to ensure safe and easy use.

Assembling the UPI

The hip/thoracic support section slides into the vertical tubes on the base. There is an array of holes on each of the vertical tubes on the base. These provide the height adjustment of the thoracic pad by fitting a circle pin clip through the same height hole on each tube and into the locator holes on the ends of the hip/thoracic support section. To position the vertical frame, pull the circle pin clips out of the vertical tubes and position the hip/thoracic support section so that the 'U' shapes of the thoracic and pelvic supports are open to the back of the UPI. (The front is marked by the prop locator bolt). Slide the support section into the vertical tubes and push the circle pin clips into place (see section **Setting Axilla Height**)

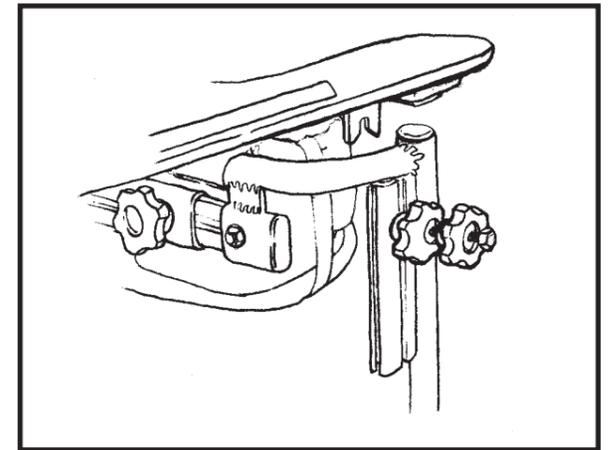


the UPI stander and components



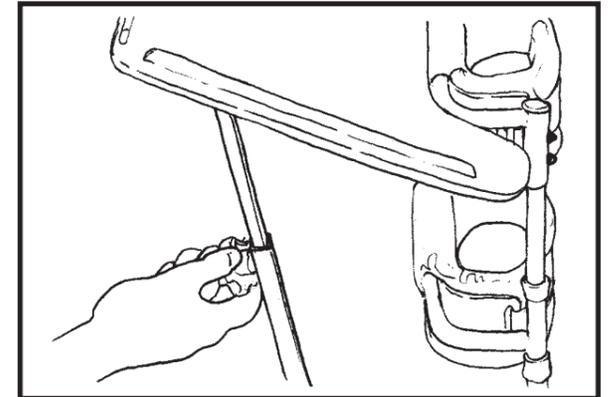
using the circle pins

To attach the tray, first of all attach the telescopic prop to the locator bolt on the front of the UPI base by pulling the small arm on the side of the locator bolt and hooking it over the catch at the end of the bolt. Position the hole on the end of the telescopic prop in the locating slot and release the small arm so that the locator pin slides through the prop hole.



locating the notched plate on the tray anchor

Undo the small knob on the painted section of the prop and lift the tray so that the profiled cutaway fits around the thoracic support. Underneath each side of the tray is a notched plate which locates on the anchor points on each side of the thoracic support. The height of the anchor points can be set by undoing the inner knob so that the anchor points can slide up and down the channel they are attached to. Once at the desired height, tighten the inner knobs to maintain the position.



angling the tray

To attach the tray to the vertical frame, undo the outer knobs on the anchor points. The notched plate on the underside of the tray fit between the inner and outer knobs on the anchor points. Once the notched plates are in position, tighten the outer knobs to hold the tray in place.

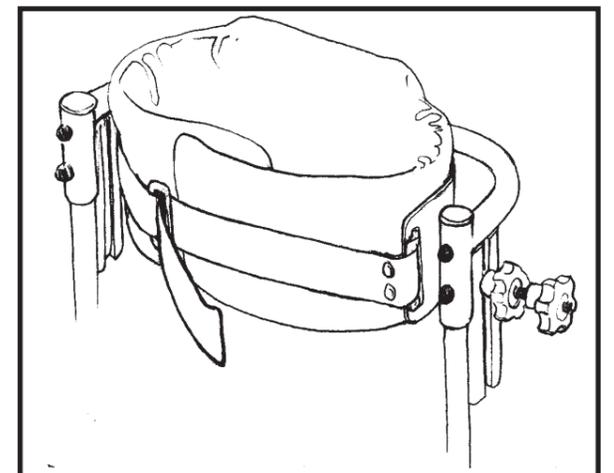
The tray can be angled by extending the prop. Undo the small knob on the painted section of the tube and lift the front of the tray to the desired angle. Ensure that the knob has been tightened before using the UPI.

The UPI in Use

Lock the castor brakes before transferring to the Upi. Once the axilla and pelvic heights and knee and foot positioning have been set and the lateral pads brought out to their maximum widths, the UPI is ready to be used.

Ensure that the equipment the user is transferring from and to are both secure and that there are no obstructions around them to hamper the transfer.

Using an appropriate transfer technique, bring the user to standing and 'walk' them into the thorax and pelvis supports. Lift arms over the thoracic support so that they can be supported either on the tray or an appropriate work surface.



fastening lateral pad straps

Foot Positioner Positioning

The position of the foot positioners establishes the stability of the rest of the body while standing. A correct standing posture stacks the weight of the body in a column and distributes it through a neutrally positioned ankle into the foot. If the foot is flat on a surface and the ankle is extended or flexed, then pressure points may develop in other areas of support e.g. at the knees, sacrum or axillas.

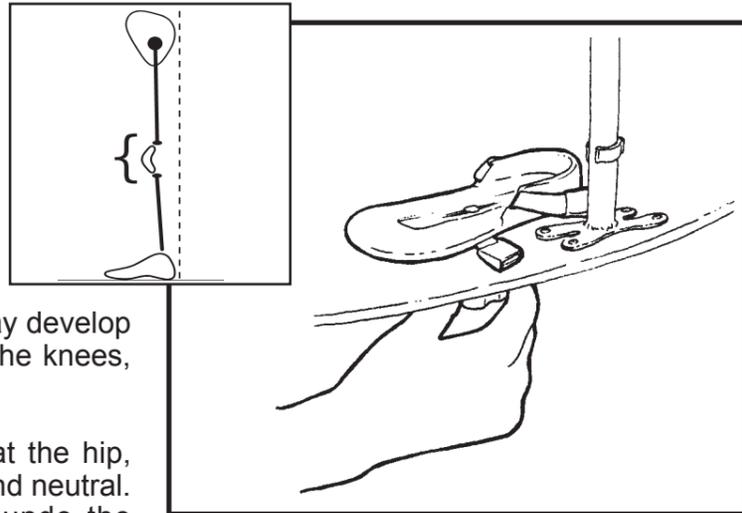
Adjust the foot positioners so that the hip, knee and ankle joints are in line and neutral. To adjust the foot positioners, undo the two knobs on the underside of the wooden footplate and move the foot positioners into the desired position. Ensure the knobs are tightened firmly before the UPI is used. The foot positioners have two points of adjustment, the strap over the foot and the heel strap. Tension the strap over the foot by loosening the velcro strap, pulling it to the desired length through the D ring and folding it back on itself to hold the position. The heel straps are adjusted once the user's feet are in the positioners. Before transferring the user onto the standing frame, open up the heel straps. Slide the user's feet into the positioners and fasten the heel strap around their heel, ensuring that the foot is firmly heel in place.

Accessories: Tray Tray Positioning

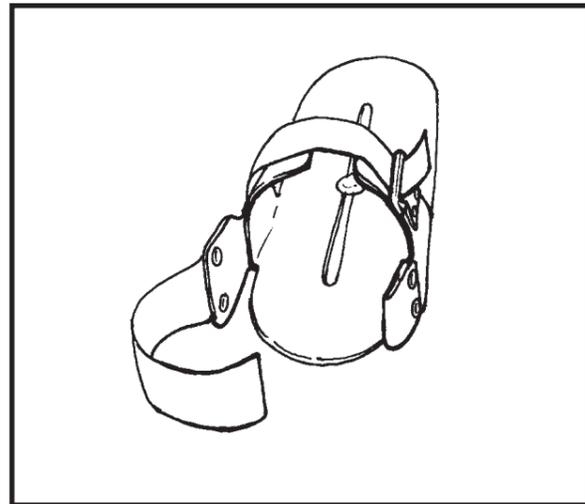
Once the user is in a vertical position, the tray can be used to provide a surface for activities and additional thoracic and shoulder support. The tray is height and angle adjustable.

Trays are often used to support users' elbows, which in turn can provide control for the shoulder girdle. Overall tray height should be set to provide a comfortable work/support surface.

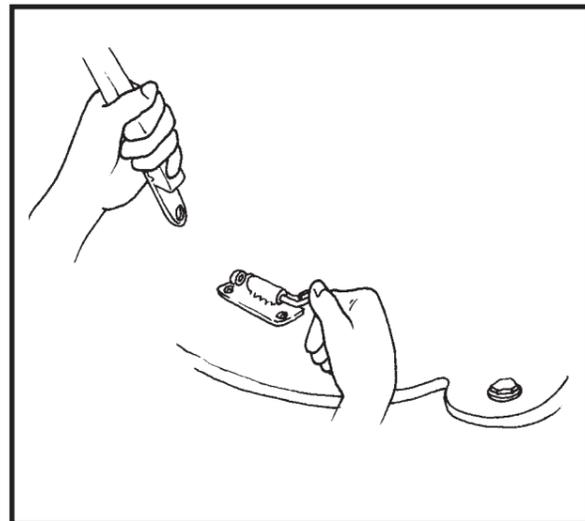
The tray is supported at three points. Two anchor points attach the tray to the hip/thoracic support section. The telescopic prop at the front of the tray provides stability and angle adjustment.



positioning the foot



fastening the straps on the foot positioners



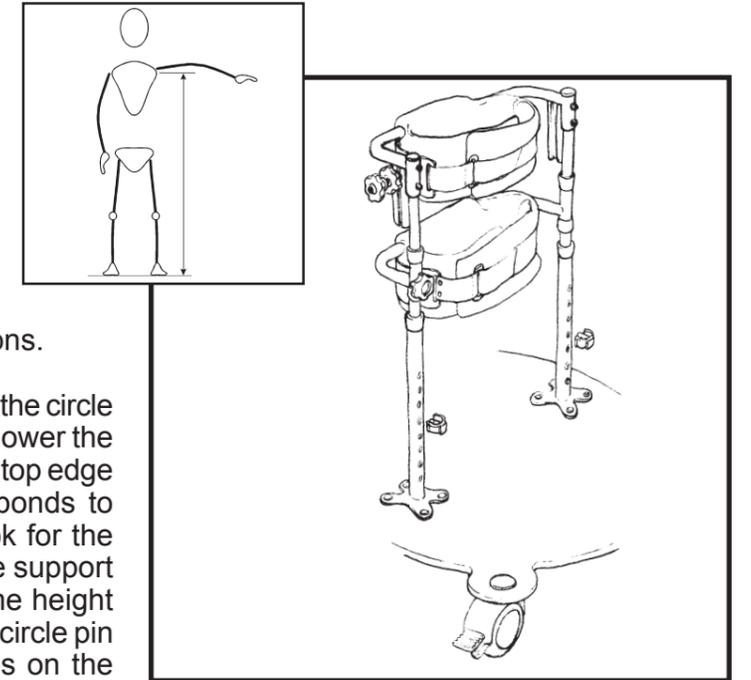
attaching the telescopic prop

Setting up the UPI for a User

Setting Axilla Height

The primary measurement for setting up the UPI is axilla (arm pit) height. This height corresponds to the top edge of the lateral pads on the thoracic support. Measure the user from foot to axilla, subtract 3 to 5cm for comfort and ensure that this measurement falls between the limits given on the front of these instructions.

To set axilla height on the UPI pull out the circle pin clips on the vertical tubes. Lift or lower the support section until the height of the top edge of the thoracic lateral pads corresponds to the user's axilla measurement. Look for the alignment of the locator holes on the support section with the nearest pair of same height holes on the vertical tubes. Push the circle pin clips through the same height holes on the vertical tubes and into the support section's locator holes.



setting axilla height

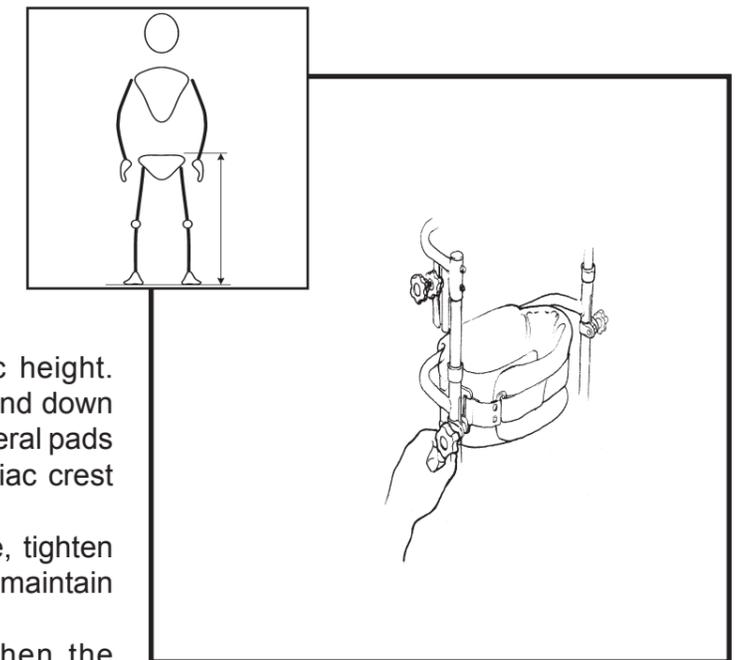
DO NOT EXCEED THE UPI'S WEIGHT OR HEIGHT LIMITS.

Pelvic Height

Once axilla height is correct, pelvic height can be set. Take the user's measurement from foot to the top of the iliac crest (the bony prominence at the top of the pelvis). The pelvic support is held in position with two handwheels on the sides of the support. Undo the handwheels before attempting to adjust pelvic height. Gently slide the pelvic support up and down so that the top edge of the pelvic lateral pads corresponds with the user's foot/ilic crest measurement.

Once the pelvic support is in place, tighten the handwheels on the support to maintain the position.

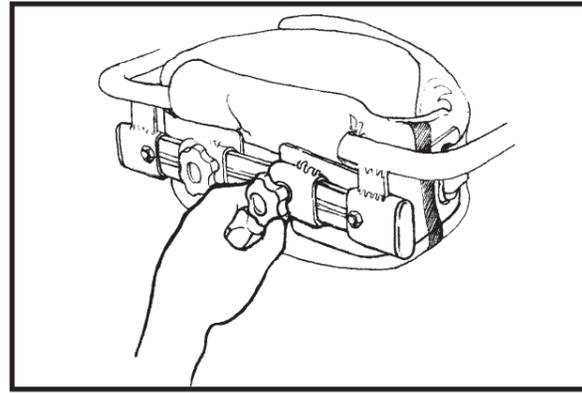
Adjust the pelvic height only when the circle clip pins are in position on the vertical frame.



setting pelvic support height

Lateral Pad Adjustment

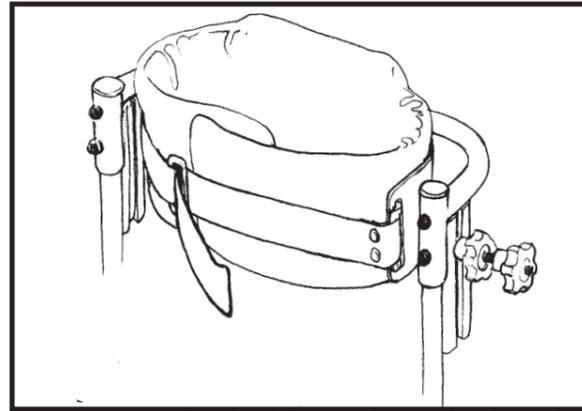
The adjustment of lateral pads is best achieved once the user is on the UPI. In order to make positioning easier it is suggested that the lateral pads are brought out to their maximum width settings. To do this, undo the knobs on each set of lateral pads and gently pull them apart. Once the user is in place, push the pads into position so that they fit snugly against the user's thorax and pelvis and tighten the knobs.



setting lateral pads

Using Hip/Thoracic Strapping

Once the lateral pads have been adjusted, the strapping on the hip and thoracic supports can be positioned to firmly control posture. Wrap the padding around the user, folding the flap with the fluffy Velcro over the flap with the rough Velcro 'hook'. The safety straps can then be fitted through the 'D' rings attached to the lateral supports and folded back on themselves to be fixed in position. On the hip support, the safety strap should fit across the lower half of the buttocks.



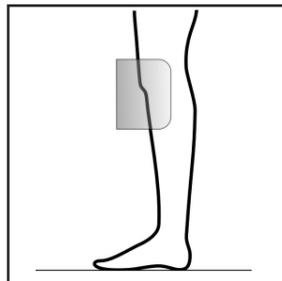
using the hip and thoracic strapping

Knee Cup Positioning

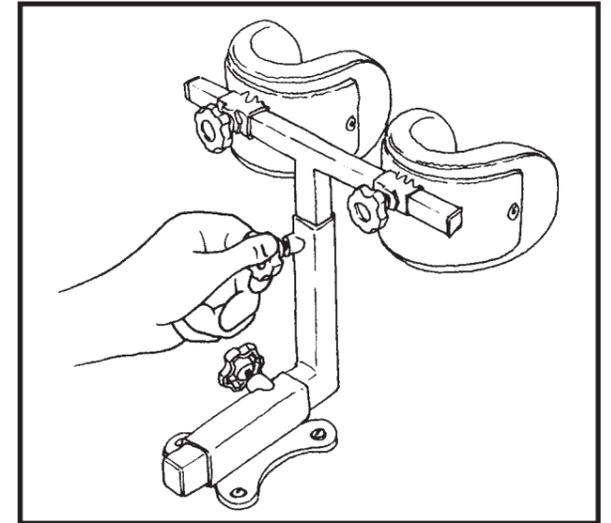
The position of the knee cups is essential to keep legs straight and correctly abducted. It is also essential that knee cups support the whole knee to avoid excessive loading or stress in a single part of the joint. Aim to support the tibial tuberosity (bony ridge below the knee) and the whole patella (knee cap). Abduction refers to the angle between the thighs which governs the position of the knees and the stability of the pelvis while standing. Adducted knees (held together) can be straightened, to provide a more stable and comfortable standing position, by abducting them with the knee cups.

Knee Cup Height

Knee cup height should be set so that the top edge of the knee cup is at the same height as the top of the patella (knee cap). Measure the height from foot to top of patella for the user.



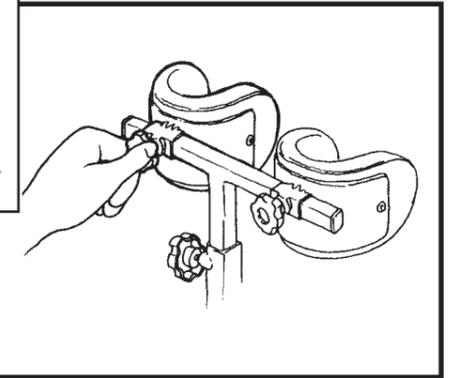
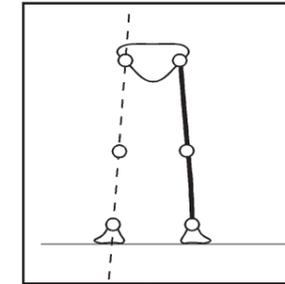
Release the small knob on the height adjustment tube of the knee control unit. The chromed T-piece will be free to move up and down and should be set as described above. Lower leg length discrepancy can be accommodated by sliding the appropriate knee cup off the T-piece and turning it upside down so that when it is replaced it sits higher or lower on the T-piece than the other knee cup. Ensure all knobs are fastened tightly before use.



setting knee cup height

Knee Cup Abduction

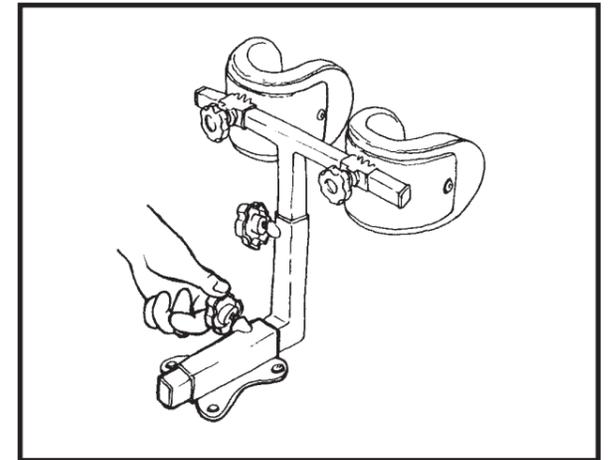
Depending on user condition the knee cup position can be neutral, so that hip, knee and ankle joint are in line vertically, or abducted. To set the amount of abduction, release the knobs on the knee cup sliders and move the knee cups to the desired angle. Ensure the knobs are tightened firmly before use. Also ensure that foot positioner location corresponds so that hip, knee and ankle joints are always in line.



setting knee cup abduction

Knee Cup Depth

The legs need to be as straight as possible when standing. With feet and pelvis accurately located the knees need to be pushed back to extend the joints and to bring them in line with the hips and ankles. To adjust knee cup depth, release the knob on the depth adjustment tube and slide the knee control assembly forwards and backwards in the tube to the desired position. Ensure the knob is tightened firmly before the UPI is used.



setting knee cup depth