

The UPI in Use

Bring the rear legs out to the stable base position and lock the castor brakes before transferring to the Large 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 Large 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. If transferring from a sitting position, the Large Upi can be positioned in front of the user with chair between the rear legs. Feet can then be located in the foot positioners prior to raising to standing.

Otherwise, 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. 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.

If moving the Large Upi and user together, bring the rear legs into the transport setting and move the Large Upi. As soon as the user is in the desired new position, bring the rear legs out to the stable base setting as described earlier.

Identification

Each Large 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 outside face of the left hand thoracic lateral.

UPI Care and Maintenance

- * Keep castors free of dirt, hair and other loose fibres.
- * Do not attempt to move the Large 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 Large Upi with bleach or solvent cleaners.
- * Clean metal work with a slightly damp cloth.
- * Clean woodwork with standard domestic furniture polish.
- * Always store the Large 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 Large Upi. Do not store other equipment on top of the Large Upi or its accessories as this may cause damage.
- * Do not store the Large 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 Large 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 Large Upi on any inclined surface.

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

The Large 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 Large Upi which has been adapted or affected by actions not described in these instructions by any individual not authorised by Quest 88 limited.

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USER INSTRUCTIONS

UPI Large Vertical Stander

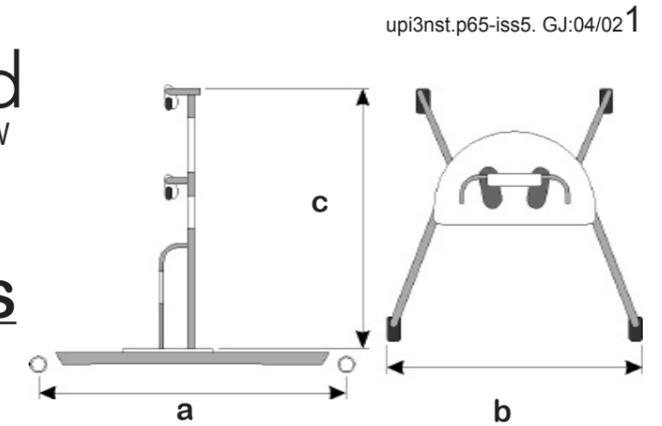
These are the user instructions for the Large Upi Vertical Stander. Please read them carefully before the Large Upi is used and store them in a safe place. Always refer to these instructions before adjusting the Large Upi or if you feel the Upi is not performing properly. It is important to familiarise yourself with the Upi. Please follow the procedures described below before setting up the Large Upi for a user. The Large Upi should only be used if it has been prescribed for a user by a healthcare professional.

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.

Large Upi Vertical Stander

The Large 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. The thoracic support can be adjusted in depth relative to the position of the hip support. This is intended to accommodate degrees of hip flexion.

The base has two positions for the rear legs. The narrower setting is for transport of the Large Upi, making it narrow enough to fit through domestic doorways. The wider setting locks the legs apart for easy transfer from a wheelchair and for stable long-term use.



	large
length (a)	960
width (b)	680-1100
axilla height (c)	900-120
max user weight	55 kg
product weight	20 kg

Large Upi Dimensions (mm)

A height and angle adjustable tray accessory can be attached to the thoracic support and is supported by a telescoping prop which connects the hip support.

The large Upi has 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.

The Large Upi is ideally suited for those 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 coordination and related skills.

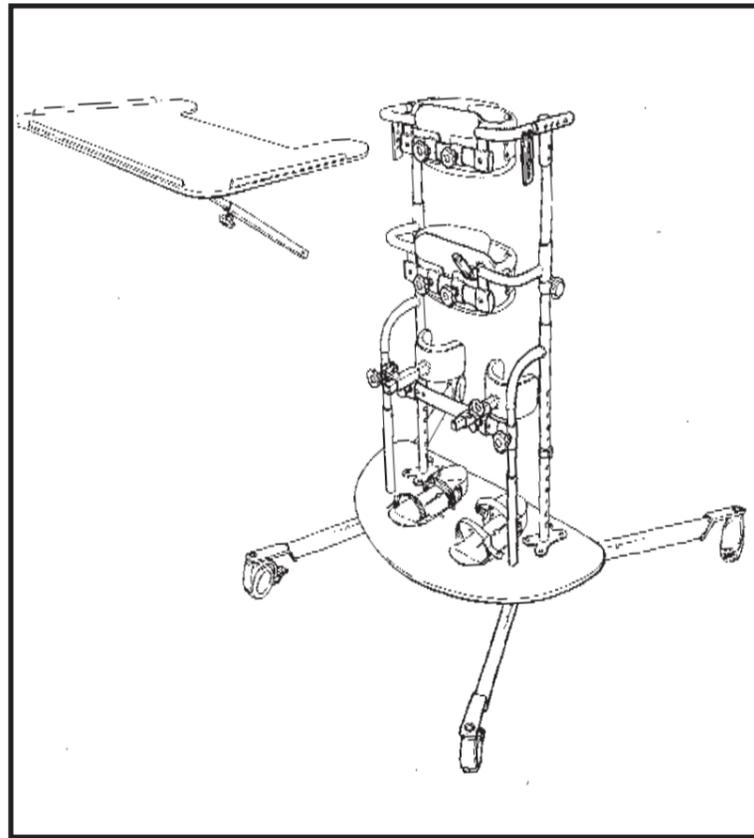
A level of supervision appropriate to the user's abilities should be applied at all times!

Before the Large Upi is Used

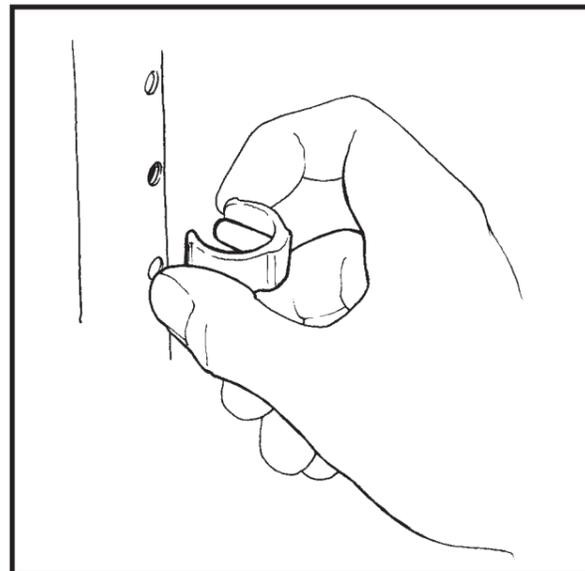
The Large Upi can be dismantled for transport and storage. Before use it must be correctly assembled. There are three main components to the Large Upi; the mobile base, the hip/thoracic support section and the tray accessory. It is essential that time and consideration is taken whilst setting up the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

Assembling the Large 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 Large Upi. (The curve of the footboard indicates the front of the Large Upi). 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

Tray Height

Tray height is set before the tray is attached to the UPI.

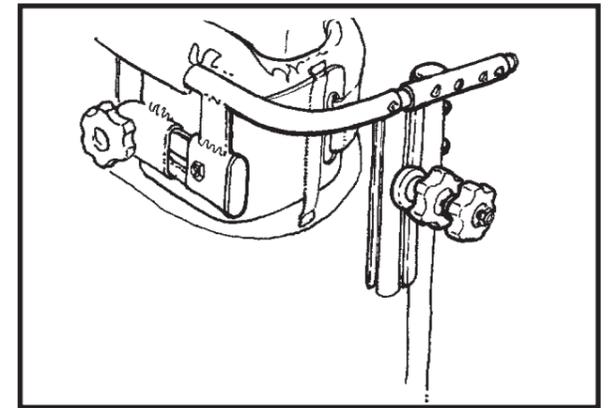
Set the tray height by releasing the inner knob on the tray height anchor. Slide the anchor to the deired height and re tighten the knob.

Tray Attachment

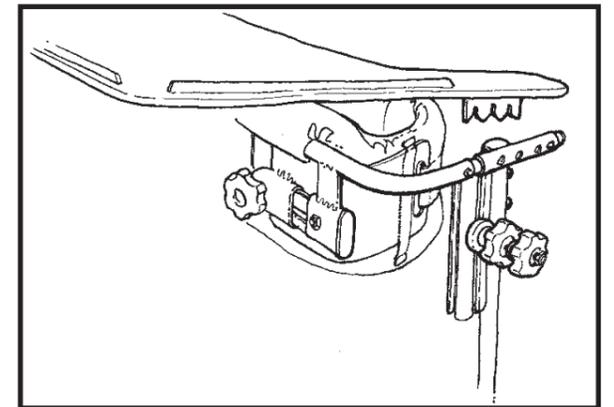
To attach the tray, first of all attach the telescopic prop to the locator tube on the front of the UPI. Slide the painted section of the prop over the located tube so that the popper locates in the hole at the end of the prop.

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 set of slots which locate onto the tray height anchors. Fit the slots onto the anchors between the inner and outer knobs and tighten the outer knob to hold the tray in place.

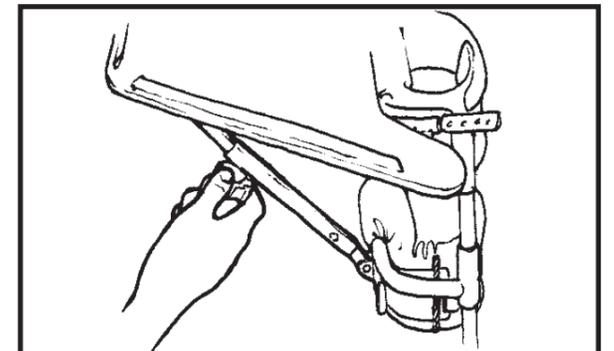
The tray can be angled by extending the prop. Undo the small knob on the painted section of the tube and lift the front of the tray to the desired angle. Ensure that the knob has been tightened before using the UPI.



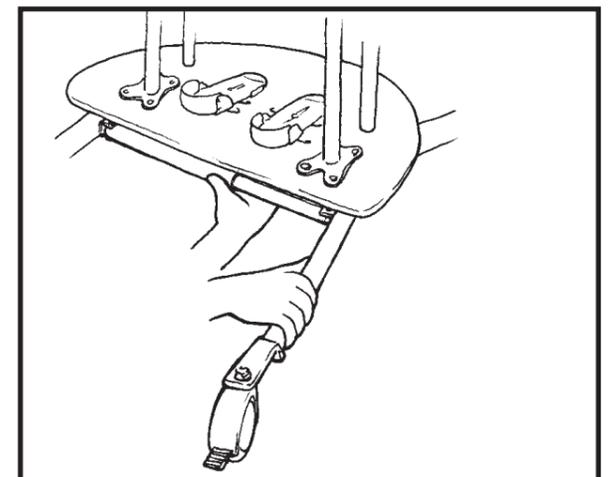
setting tray height



locating the slots on the traz anchors



angling the tray



angling the rear legs out to the stable setting

Rear Leg Positioning

The large UPI base has two settings, the first for transport and the second for stable use.

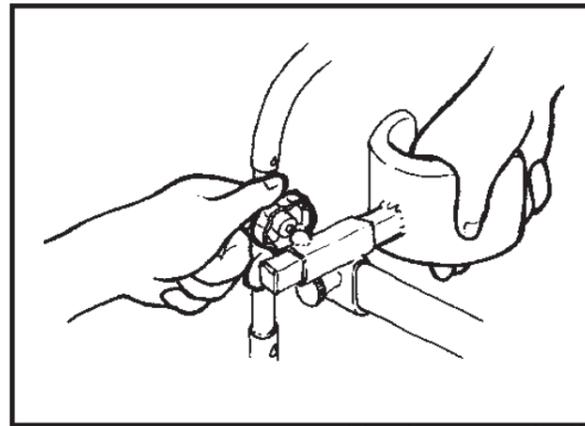
The first setting has the rear legs running parallel to each other in order to make the Upi more manoeuvrable. When it comes to using the Upi the legs can be angled apart to provide a more stable base. This setting should be used when the user is in the UPI.

The legs will lock in the wider setting. To bring the legs in to the narrower setting, depress the popper in the middle of the telescope running along the back edge of the footboard and pull the legs together.

Ensure the legs are locked in the widest setting when the user is in the Upi.

Knee Cup Depth

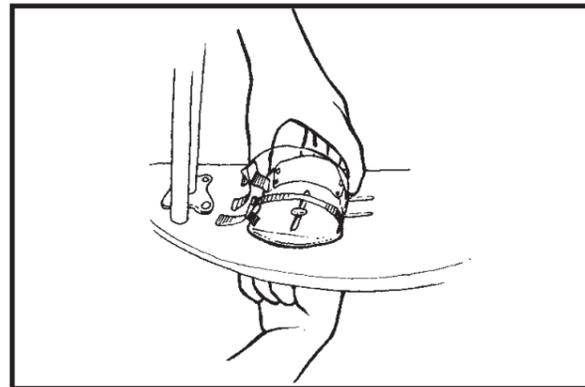
The legs need to be as straight as possible when standing. With feet and pelvis accurately located the knees need to be pushed back to extend the joints and to bring them in line with the hips and ankles. To adjust knee cup depth, release the knobs on the knee cup holders and slide the knee control assembly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



setting knee cup depth

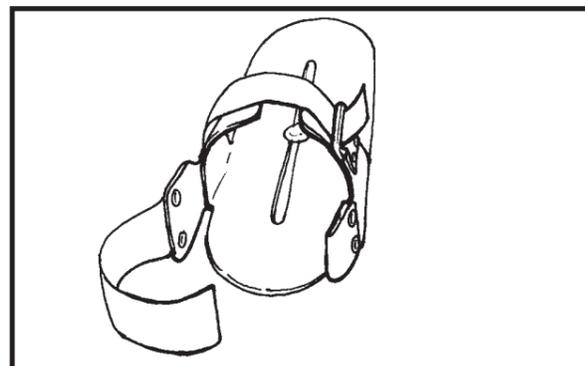
Foot Positioner Positioning

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.



positioning the foot

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



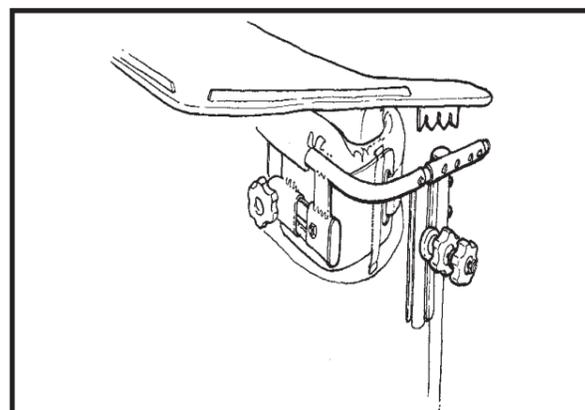
fastening the straps on the foot positioners

Accessories: Tray

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 knobs attach the tray to the thoracic support section. The telescopic prop at the front of the tray provides stability and angle adjustment.

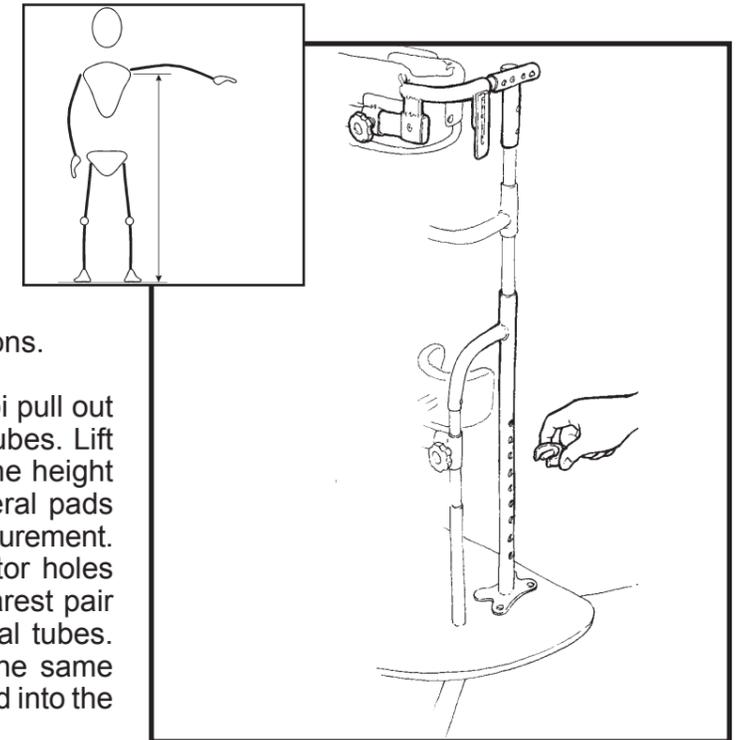


attaching the telescopic prop

Setting up the UPI for a User

Setting Axilla Height

The primary measurement for setting up the Large 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.



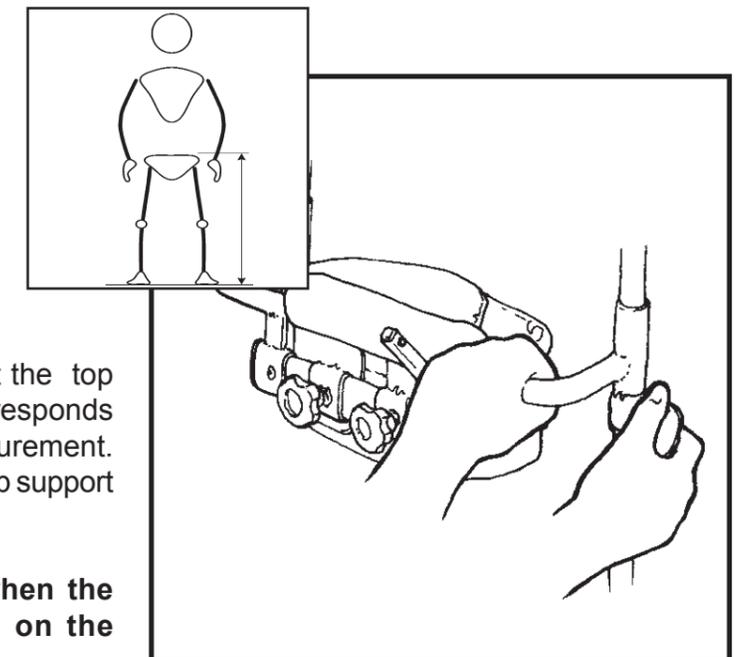
setting axilla height

To set axilla height on the Large 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.

DO NOT EXCEED THE LIMITS OF WEIGHT OR HEIGHT.

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 place by knobs on the sides of the support. These lock the hip support in place on the vertical tubes. Undo the knobs 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/iliac crest measurement. Once at the correct height, lock the hip support in position by tightening the knobs.

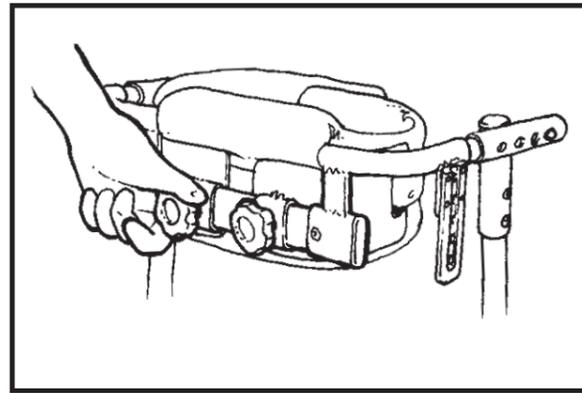


setting pelvic support height

Adjust the pelvic height only when the circle pin clips are in position on the vertical frame.

Lateral Pad Adjustment

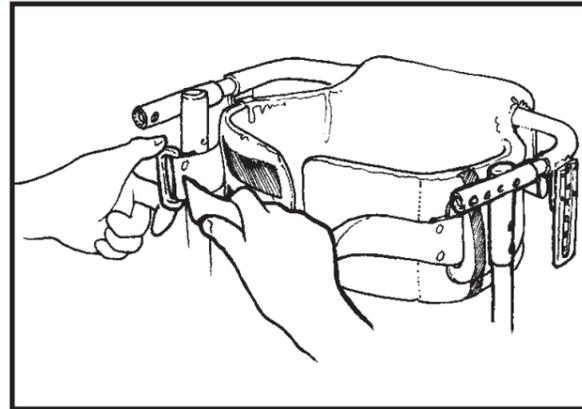
The adjustment of lateral pads is best achieved once the user is on the Large Upi. In order to make positioning easier it is suggested that the lateral pads are brought out to their maximum width settings. To do this, undo the knobs on each set of lateral pads and gently pull them apart. Once the user 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.



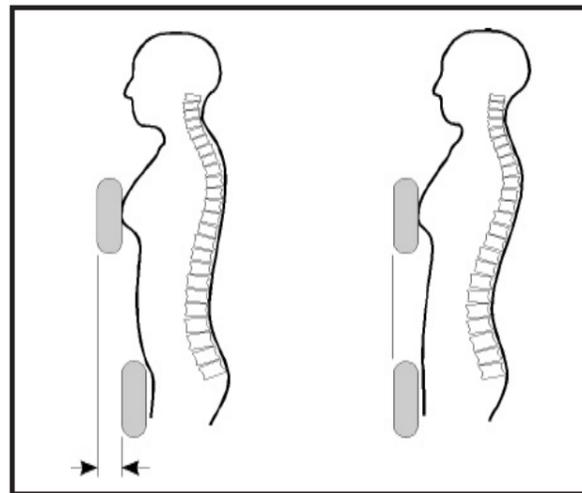
using the hip and thoracic strapping

Thoracic Support Depth

Because the support of the large Upi is anterior (at the front) it is important to consider the relationship between the hip and thoracic support in order to accommodate fixed hip flexion deformities, breasts or kyphosis (forward curvature of the spine below the neck).

In any of these cases, if the hip and thoracic supports are in line, the spine may become over extended, which in turn will lead to discomfort.

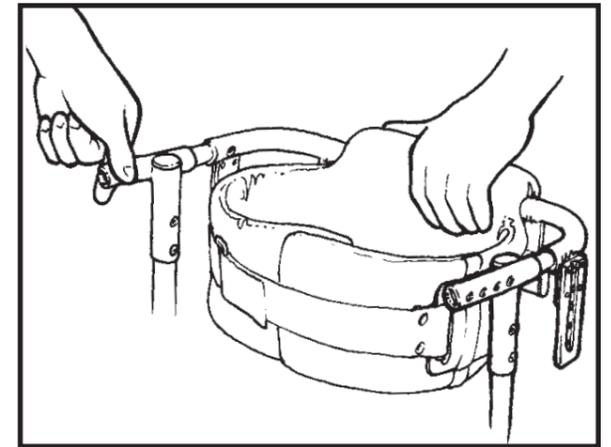
For this reason, the thoracic support on the Large Upi is depth adjustable. It should be adjusted so that the user feels comfortable and their head and arm movement is not restricted because of their spine being over extended. The head should always be in line with the chest and not too far forward or back, which will strain the neck.



increased curvature in the spine when anterior support is in line

Adjusting Thoracic Support Depth

To adjust the thoracic support depth, depress the poppers in the T pieces at the top of the vertical tubes and slide the thoracic support forwards or backwards to the desired position. Once the support is in position and the user is comfortable, ensure the poppers locate through the same holes in both T pieces.



setting thoracic support depth

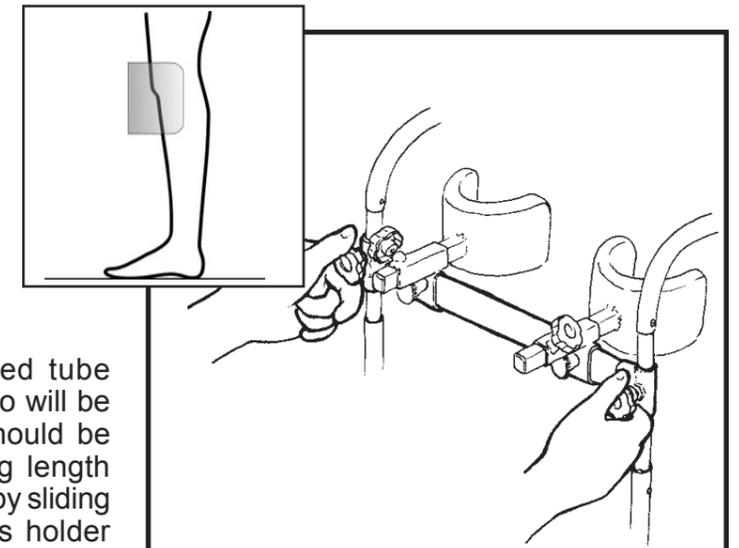
Knee Cup Positioning

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 kneecups.

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.

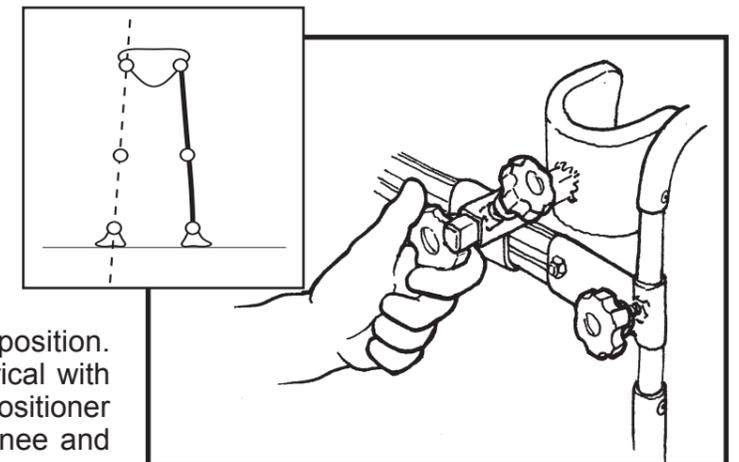
Release the knobs on the height adjustment tubes which the knee control unit fit on to. The chromed tube which the knee cups are attached to will be free to move up and down and should be set as described above. Lower leg length discrepancy can be accommodated by sliding the appropriate knee cup out of its holder and turning it upside down so that when it is replaced it sits higher or lower than the other knee cup. Ensure all knobs are



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, undo the knobs on the knee cup holders and move the knee cups to the desired position. Tighten the knobs when the knee cups are in the desired position. The knee cups should be symmetrical with the user's midline. Ensure that foot positioner location corresponds so that hip, knee and ankle joints are always in line.



setting knee cup abduction