



# Squiggles TT

User Manual



Supporting  
Children

**The Squiggles TT is a targeted trainer that has been designed to offer the support your child needs in an upright, standing posture. The stander is modular in design and has been developed for use in school or at home. This manual shows how to quickly, safely and easily use your Targeted Trainer Standing Frame functions. The instructions on the safety and maintenance will ensure that you will enjoy this product for a long time.**

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## 1.0 Intended Use

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The Squiggles TT is a standing frame that enables targeted training which has been designed for children with disabilities aged 1–5 for use at home or in the classroom. The maximum user weight is 22kgs (48.4lbs). Suitable for children with deficits in head/trunk control and delays in achieving functional abilities, especially independent upright sitting with or without hand support.

## 2.0 Declaration of Conformity

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Declaration of Conformity James Leckey Design Ltd.  
as manufacturer with sole responsibility declares that the Targeted Trainer Standing System conforms to the requirements of the 93/42/EEC Guidelines Medical Device Regulations 2002 and EN12182 Technical aids for disabled persons.  
General requirements and test methods.

## **3.0 Terms of Warranty**

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The warranty applies only when the product is used according to the specified conditions and for the intended purposes, following all manufacturers' recommendations (also see general terms of sales, delivery and payment). A three year warranty is provided on all Leckey manufactured products and components.

## **4.0 Product History Record**

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Your Leckey product is classified as a Class 1 Medical device and as such should only be prescribed, set up or reissued for use by a technically competent person who has been trained in the use of this product. Leckey recommend that a written record is maintained to provide details of all set-ups, reissue inspections and annual inspections of this product.

## **5.0 Product Training Records (Parents, Teachers & Carers)**

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Your Leckey product is a prescribed Class 1 Medical Device and as such Leckey recommend that parents, teachers and carers using the equipment should be made aware of the following sections of this user manual by a technically competent person:

### **6.0 Safety Information**

### **10.0 Clinical Setup**

### **11.0 Frequent Adjustments for Daily use**

### **12.0 Cleaning and Care**

### **13.0 Daily Product Inspection**

Leckey recommend that a written record is maintained of all those who have been trained in the correct use of this product.

## 6.0 Safety Information

**6.1** Always read instructions fully before use.

**6.2** Users should not be left unattended at any time whilst using Leckey equipment.

**6.3** Only use Leckey approved components with your product. Never modify the product in any way. Failure to follow instructions may put the user or carer at risk and will invalidate the warranty on the product.

**6.4** If in any doubt to the continued safe use of your product or if any parts should fail, please cease using the product and contact our Customer Care Team or local dealer as soon as possible.

**6.5** Carry out all positional adjustments and ensure that they are securely fastened before you put the user into this product. Some adjustments may require the use of a tool which is provided with each product. Keep all tools out of reach of children.

**6.6** When putting the user into the stander both for positional and safety reasons, always secure the pelvic and chest support harnesses first.

**6.7** When the product is stationary ensure that all castors are locked and facing away from the base as this will improve product stability. This is especially important when the support frame is in a reclined position.

**6.8** When the product is in use please ensure that the angle adjustment foot pedal is locked off and cannot be adjusted accidentally, especially if there are children in the area.

**6.9** When the Squiggles TT is used on the Pivot chassis we do not recommend that users are moved over uneven surfaces when in the equipment. All due care and attention should be taken if transporting the user in and out of the stander.

**6.10** Never leave the product on a sloping surface, greater than 5 degrees. Always remember to lock all the castors.

**6.11** Although the Pivot stander is fitted with castors this is not a mobility device. Always place the user in an upright position before moving the stander. Hold the push handle when moving the stander.

**6.12** The product contains components which could present a choking hazard to small children. Always check

that locking knobs and bolts within the child's reach are tightened and secure at all times.

**6.13** Leckey products comply with fire safety regulations in accordance with EN12182. However the product contains plastic components and therefore should be kept away from all direct sources of heat including naked flames, cigarettes, electric and gas heaters.

**6.14** Do not place hot objects greater than 40°C on the tray.

**6.15** Clean the product regularly. Do not use abrasive cleaners. Carry out maintenance checks on a regular basis to ensure your product is in good working condition.

**6.16** The product is designed for indoor use and when not in use should be stored in a dry place that is not subjected to extremes of temperature. The safe operating temperature range of the product is +5 to +40 deg Celsius.

**6.17** Always check the plastic hand knobs on the push handle are tightened securely before you move the unit.

# 7.0 Contra-indications

## 7.1 Contra-indications

Children experiencing discomfort that cannot be resolved by adjustment of support/positioning. Children with hip/knee flexion contracture beyond the limits of the Squiggles Targeted Training Stander

## 7.2 Caution to be taken with

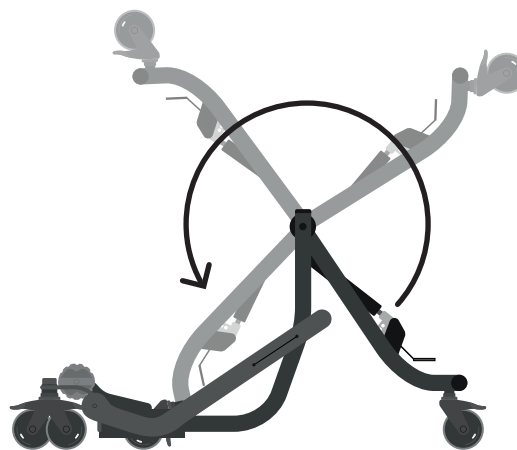
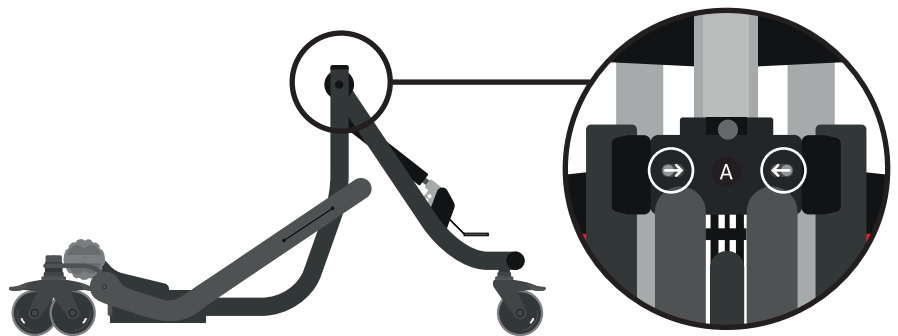
Children with a history of recent fractures, presenting with episodes of low blood pressure at risk of fainting within equipment, poorly controlled seizure activity where they could be at risk of injury to themselves within the stander, severe dystonic

movement which presents a manual handling risk for child and carer, compromised respiratory function, significant learning disability or behavioural issues which present risk of injury or anxiety to the child and/or carer & children with a fixed structural deformity of the spine.

# 8.0 How to unpack & assemble the standing frame

## 8.1 Folding and unfolding the pivot chassis

The Pivot Chassis can be easily folded for storage or transportation. To unfold, release the levers **A** shown by pressing them together, rotate the rear tubes until the levers engage in the locked position. To fold the chassis simply reverse this procedure.



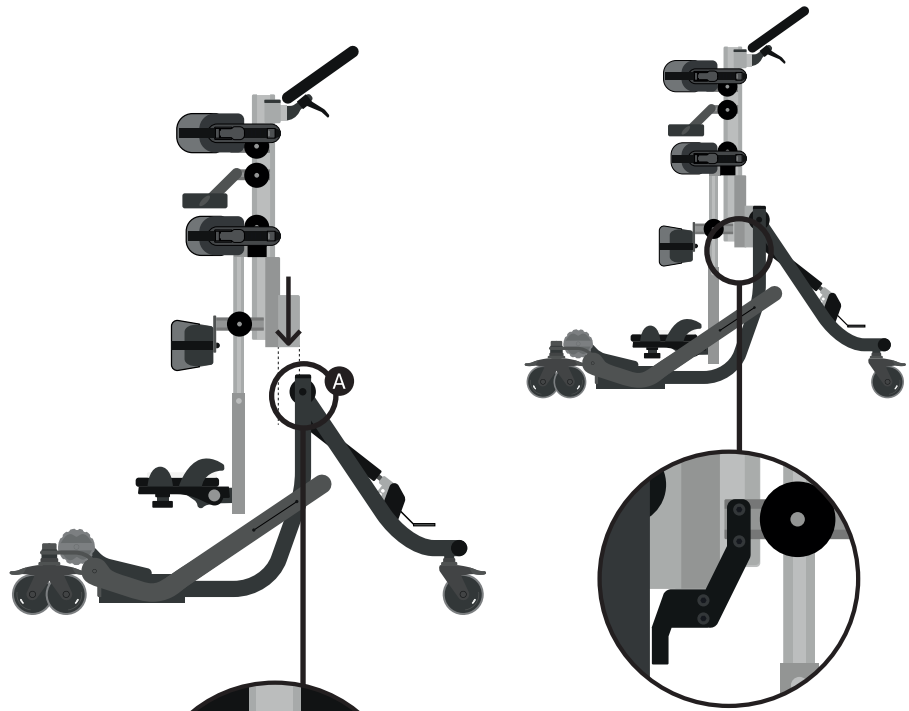
Always remove the standing support frame before trying to fold the chassis.

Always use caution to ensure fingers do not become trapped when folding and unfolding the pivot chassis.

The Targeted Trainer has been designed to fit with a pivot chassis.

### 8.2 Attaching stander to pivot chassis

To attach the stander to the Pivot Chassis, pull the locking pin out **A**, slide the central spine into the receiving bracket until it is fully engaged, release the pin allowing it to snap back into place.



The angle adjustment plate allows the angle of the stander to be changed and set.

To adjust the plate loosen the bolts with the Leckey tool provided.

Slide the plate along the slots until it contacts the upright support at the desired angle.

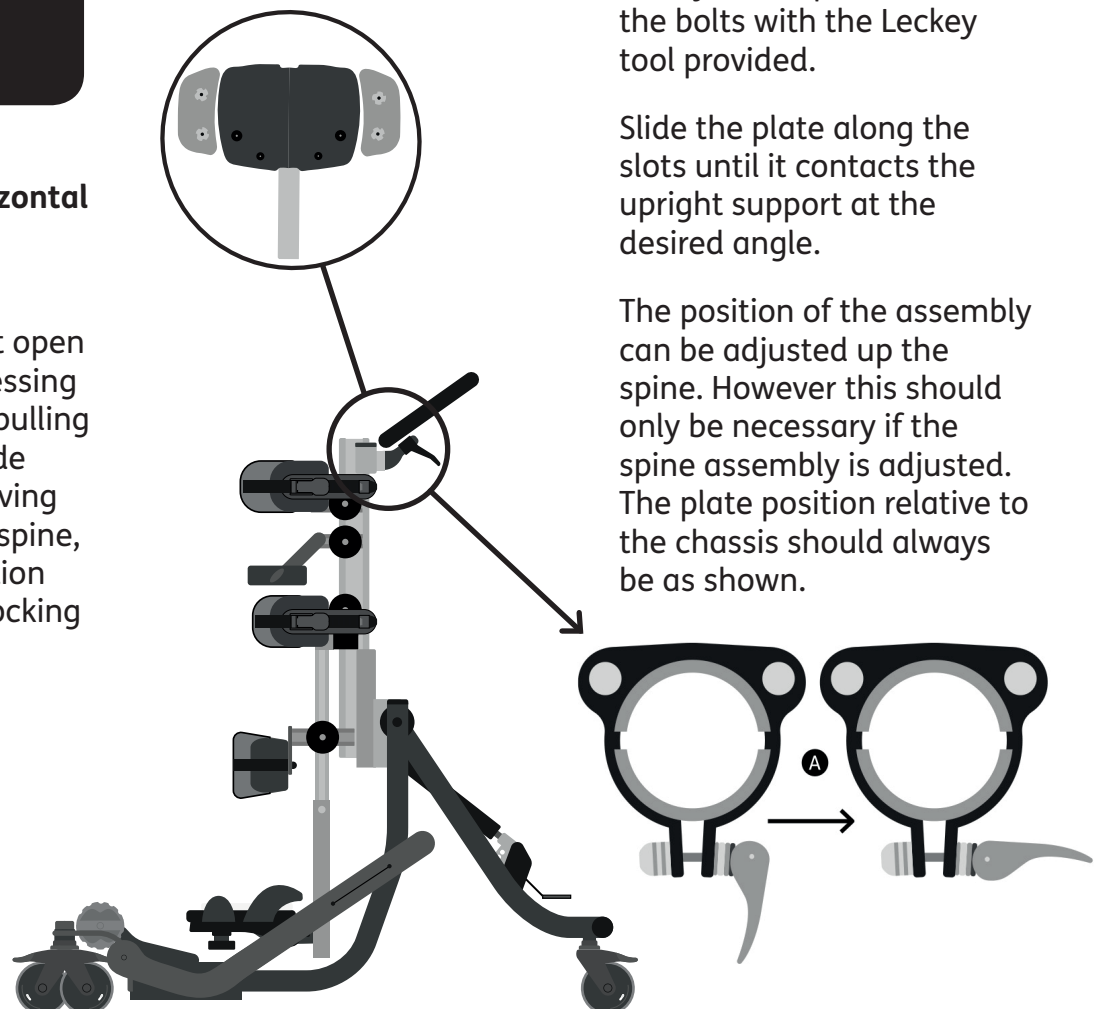
The position of the assembly can be adjusted up the spine. However this should only be necessary if the spine assembly is adjusted. The plate position relative to the chassis should always be as shown.



Always make sure the locking pin is fully engaged before you place the child in the stander.

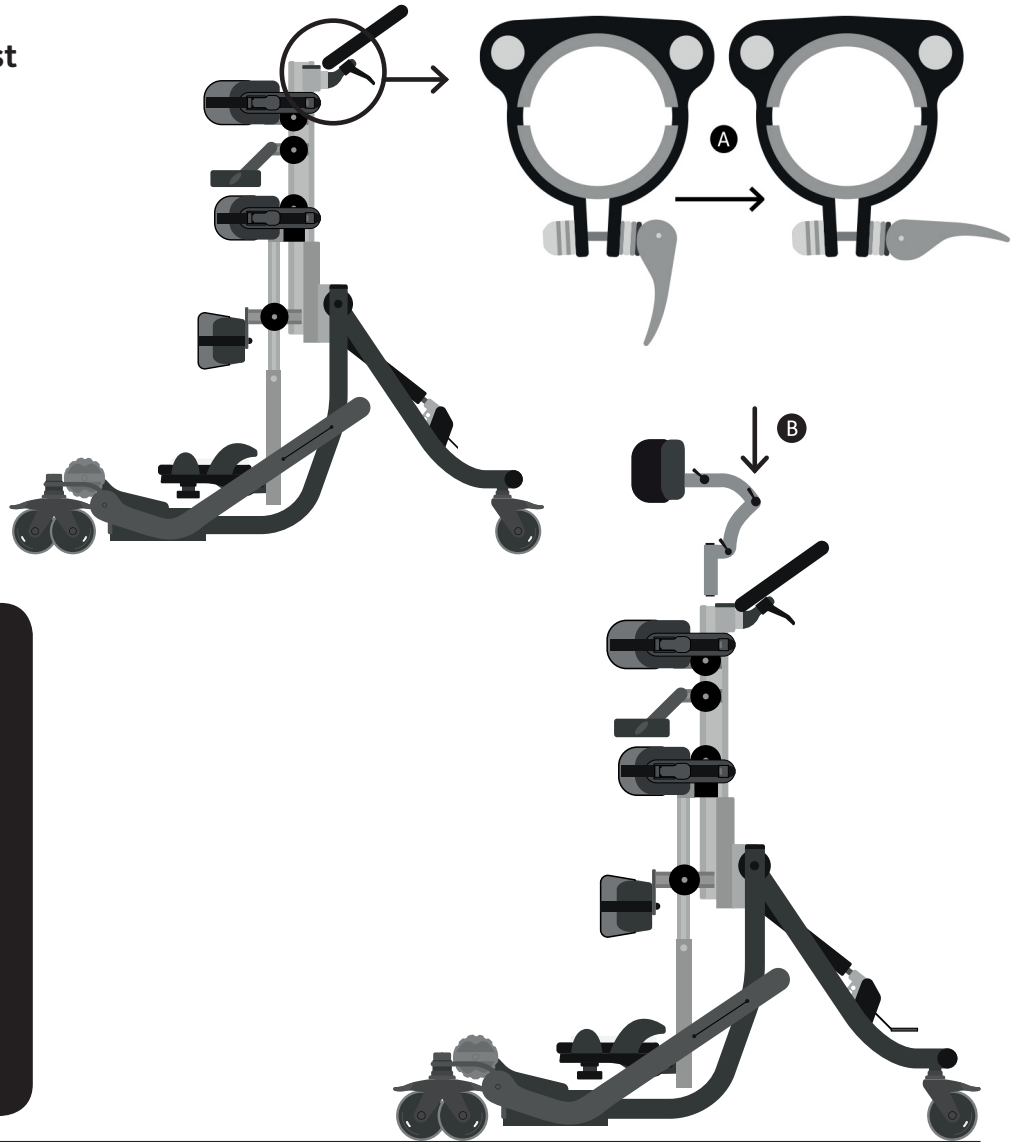
### 8.3 Attaching the horizontal support

To attach the Leckey Horizontal Support first open the locking lever by pressing the safety button and pulling the handle **A**. Then slide the stem into the receiving bracket on the central spine, set to the desired position and secure using the locking handle.



### 8.4 Attaching the headrest

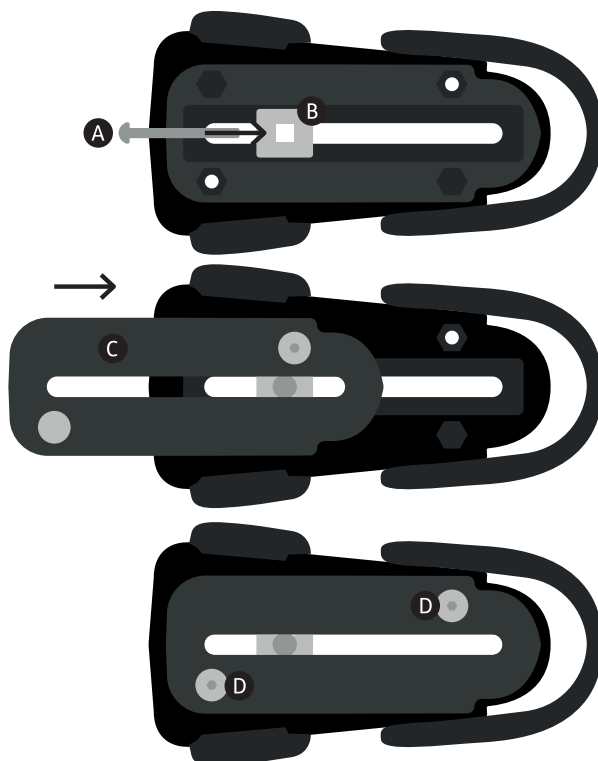
To attach the Leckey headrest first open the locking lever by pressing the safety button and pulling the handle **A**. Then slide the stem into the receiving bracket on the central spine, set to the desired position and secure using the locking handle **B**.



  
The product contains components which could present a choking hazard to small children. Always check that locking knobs and bolts within the child's reach are tightened and secure at all times.

### 8.5 Inserting sandal attachment bolt

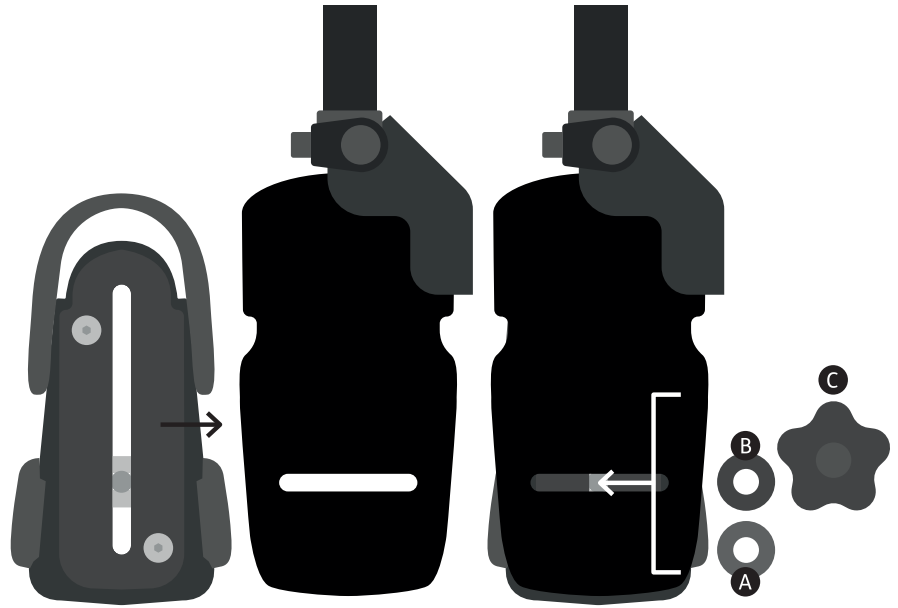
Insert the required attachment bolt **A** along with the retention plate **B**. Place a rubber lid **C** on, both, the top and bottom of the sandal. Fasten using the four screws **D** provided. To remove or replace the attachment bolt, reverse this process.





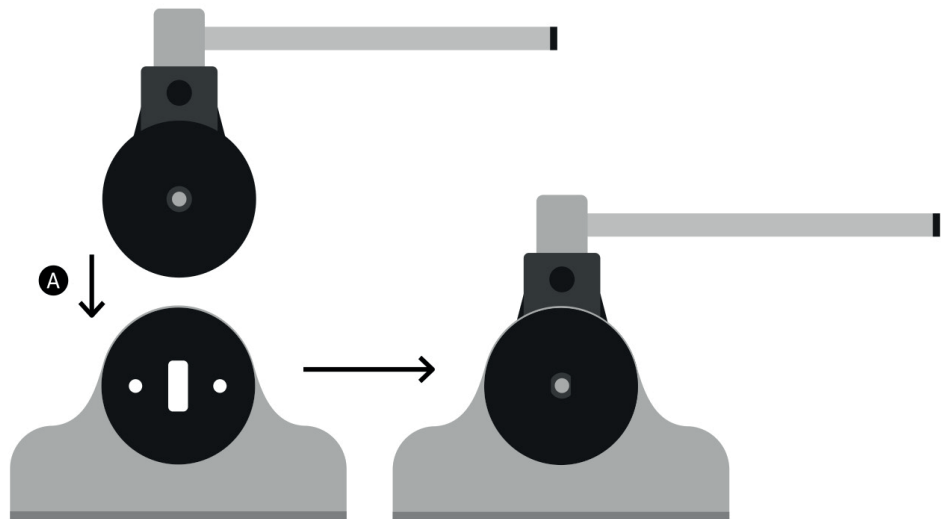
## 8.6 Attaching the sandals

Place the sandal so that the attachment bolt goes through the slot in the footplate. To secure, on the underside of the footplate place the rubber washer **A**, followed by the metal washer **B** and then the knob **C** onto the attachment bolt. To position the sandals simply loosen the knob under the footplate, select the position you require and re-fasten the knob.

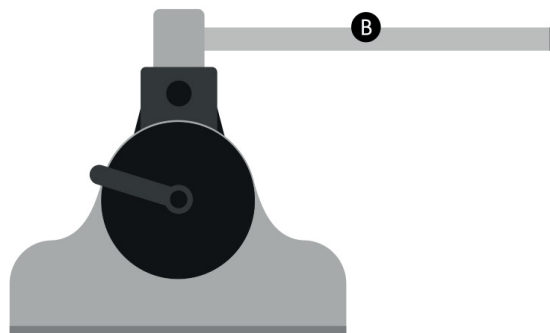


## 8.7 Assemble the tray

To attach the arms to the tray brackets, loosen the knob, place the moulding to the inside of the tray plate so the plastic teeth mesh **A**. Replace the knob on the outside and secure. Repeat on other side. Ensure both horizontal tubes are aligned so they locate in the tray bracket receivers **B**.

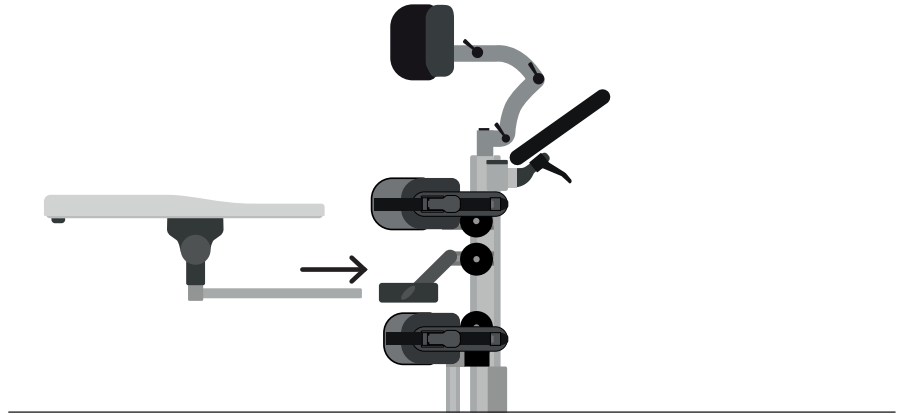


Please be aware of a gap on the underside of the tray where a child could insert their finger between the metal bracket and the base of the plastic tray.



### 8.8 Attaching the tray in supine

The tray is attached to the stander by inserting the tubes into the receiving brackets. Once the tray is located in position the knobs should be tightened. The cut out of the tray should always be facing the child. To attach the tray ensure that the tray receiving tubes are at their maximum height.



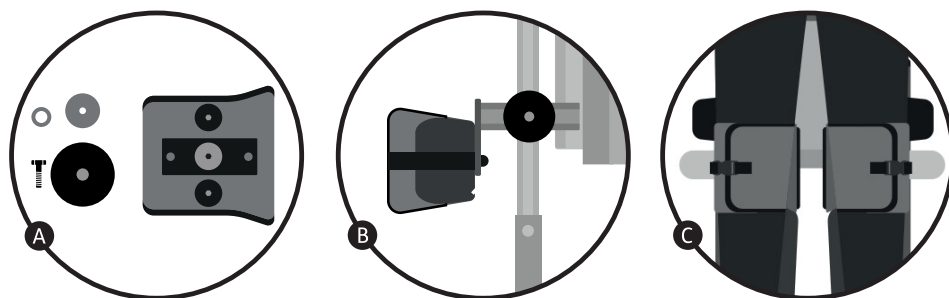


**Always use caution to ensure the child's hands or arms do not become trapped when inserting the tray.**

# 9.0 Fitting the Cushions

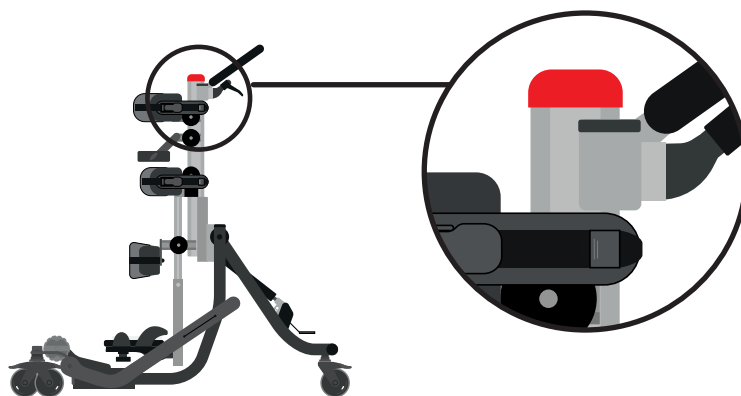
## 9.1 Knee support pads

Unscrew the washer and bolt from the knee cup using the Lecky tool **A**. Ensure the buckles are facing away from the frame. Holding the knee cup in position against the plate, place the washer and screw into position on the other side and secure together **B**. When secured in place, adjust as needed. Once knee is in correct position, secure cam-lock for further repeatability **C**.



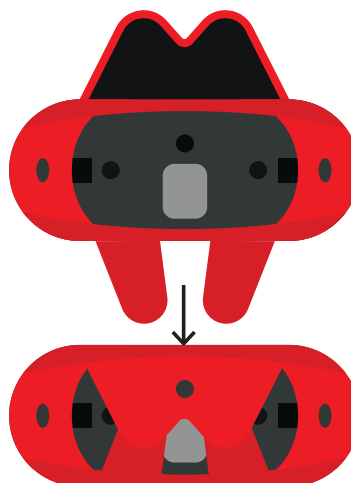
## 9.2 Padded Spine Cap

Place the padded spine cap over the spine of the standing support and place the plastic loops around the adjustment knobs.



## 9.3 Headrest cushion

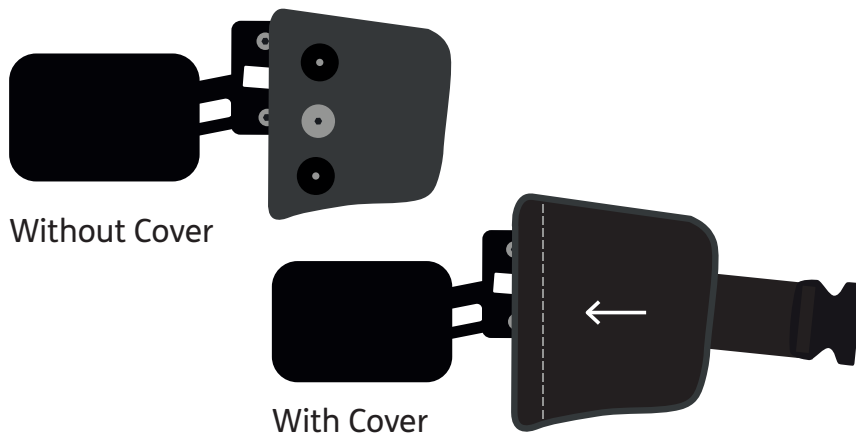
To attach the headrest cushion, place the cushion onto the head support plate, then Velcro and bring the lower flap under the plate and Velcro the two fasteners in place.



### 9.4 Attaching the lateral covers

Slide the cover over the front of the lateral.

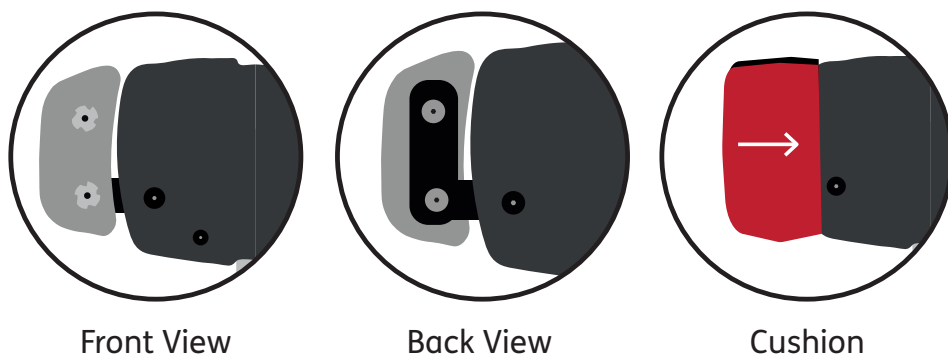
Pull the tabs around the back and secure the Velcro in place.



### 9.5 Horizontal support cushion

Slide the cushion over the horizontal support plate.

Feed the Velcro flaps through the groove at the back and secure in place.



## 9.6 Pelvic and Trunk wrap

Fit the cushion over the plastic support **A**.



Cushion

Slide the tab up from below and attach the velcro to the tab over the top **B**.

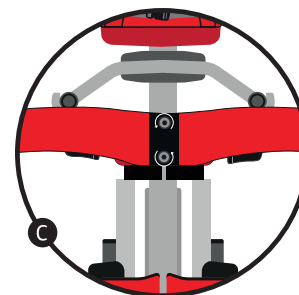
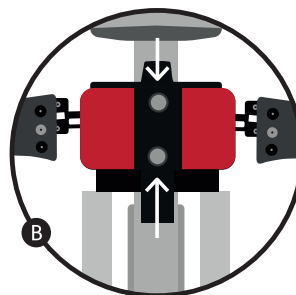
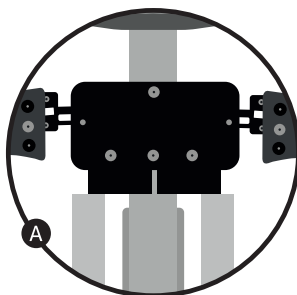


Trunk Wrap

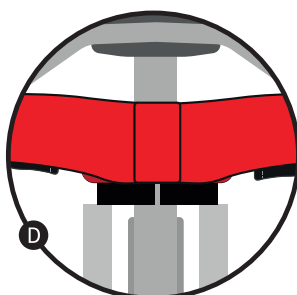


Pelvic Wrap

Screw the wrap to the plate through the holes on the wrap. Tighten until secure, ensuring not to over tighten **C**.



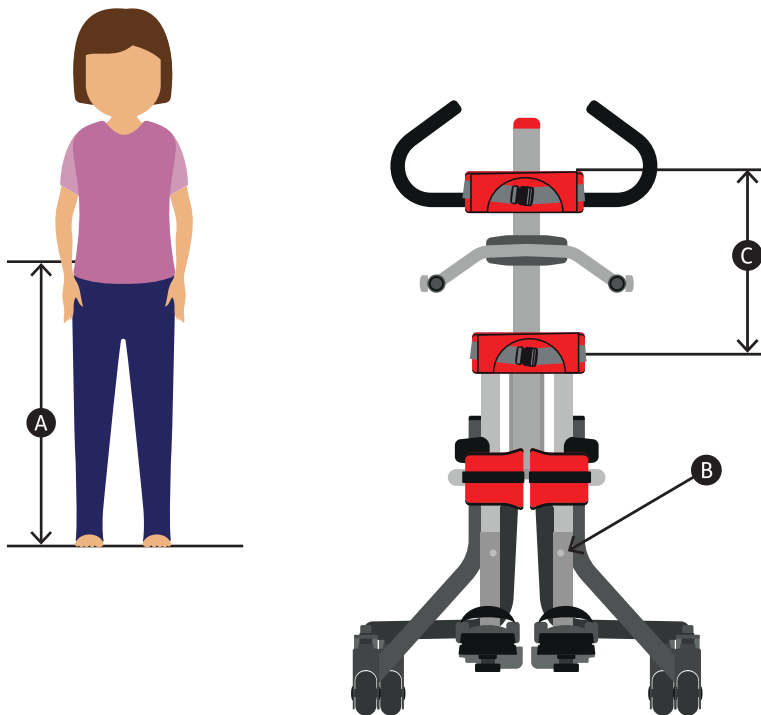
Cover the screws with the padded Velcro tab **D**.



# 10.0 Clinical setup

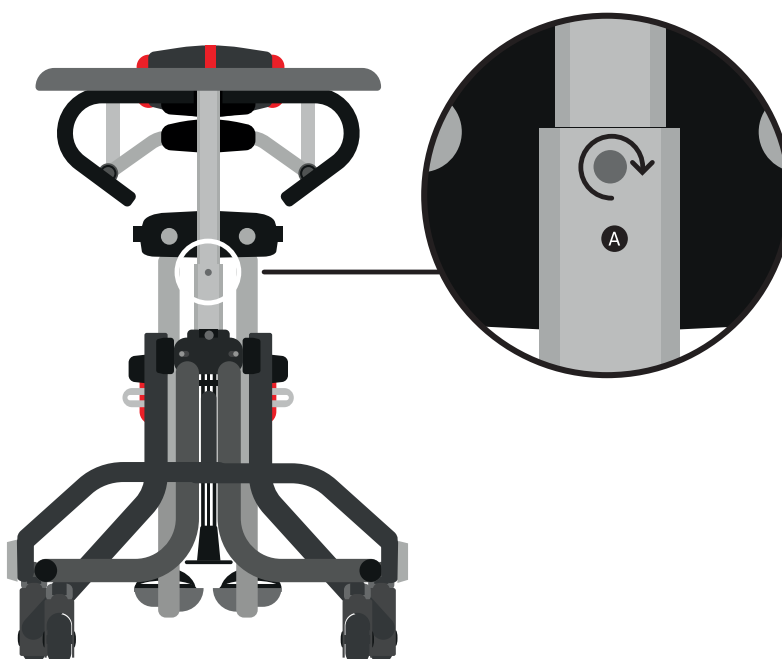
## 10.1 Before you start

It is recommended before setting up the Squiggles TT that a mat assessment is done. To do this, place the child in supine (lying on their back) on the mat. You will need to measure from the bottom of the child's foot in a neutral position to the child's ASIS **A**. This will be the height between the centre of the PELVIC SUPPORT and the top of the sandal. It can be set by adjusting the leg supports **B**. Measure the distance from the child's ASIS to the point where they start to lose trunk control (see 'SATCo' assessment). This will be for the placement of the TRUNK SUPPORT **C**. Measure from the bottom of the child's foot to the centre of the knee. This will be for placement of knee supports. It's recommended to adjust the height whilst the frame is in an upright position.



## 10.2 Adjusting the overall height

The overall height of the standing support can be adjusted by loosening the bolt on the back of the main frame with the multi-tool **A**. Sliding the inner stem to the desired height and re-tightening the Allen bolt. A calibration strip is fitted on the side of the inner frame to help you record the selected positions of the supports. There is also a safety stop at the maximum height.

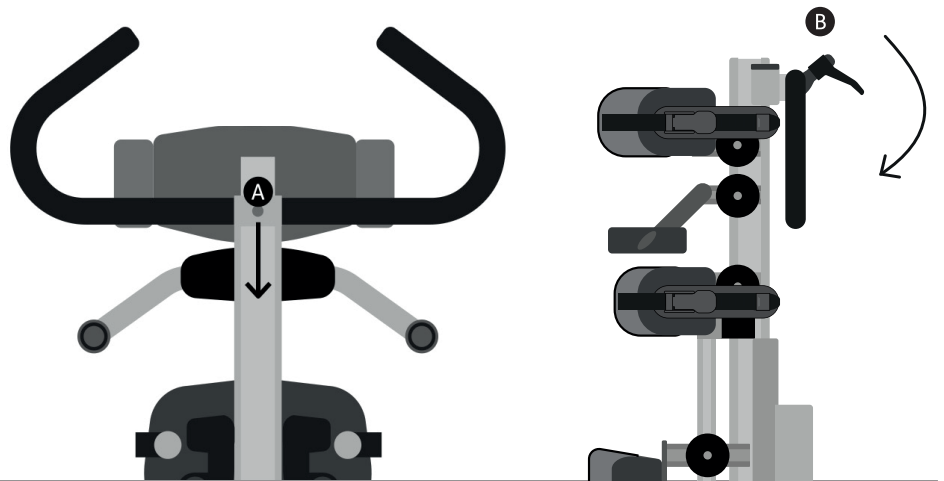


### 10.3 Adjusting the push handle

The push handle height can be adjusted by loosening the Allen bolt **A** at the attachment point to the stander, adjusting to the desired height then re-tightening the Allen bolt. The angle of the push handles can be adjusted by loosening lever **B** at the attachment point to the stander. Rotate the push handle to the desired position, then secure the lever to original orientation.



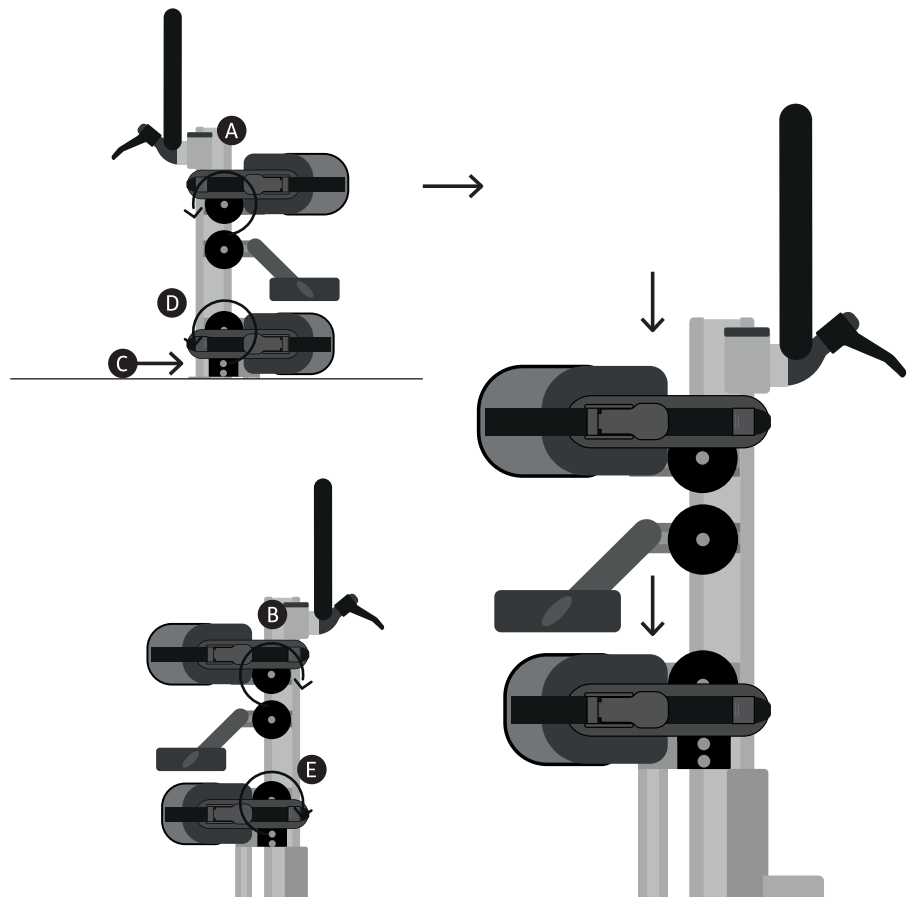
To prevent finger nipping always hold the push handle with one hand whilst making the adjustment with your other hand.



### 10.4 Adjusting the trunk and pelvic supports

To adjust the trunk support rotate both knobs **A** in an anticlockwise direction as shown. Set to the required position and then re-tighten both knobs in a clockwise direction as shown **B**.

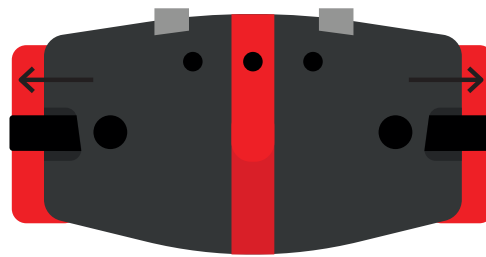
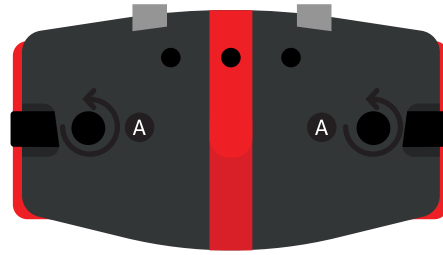
To adjust the pelvic support loosen the 4 locking bolts (2 either side) **C**. Rotate both knobs **D** in an anticlockwise direction as shown. Set to the required position and re-tighten both knobs in a clockwise direction as shown **E**. Finally re-tighten the 4 locking bolts.



Always use caution to ensure fingers do not become trapped when adjusting the trunk and pelvic supports.

### 10.5 Lateral supports

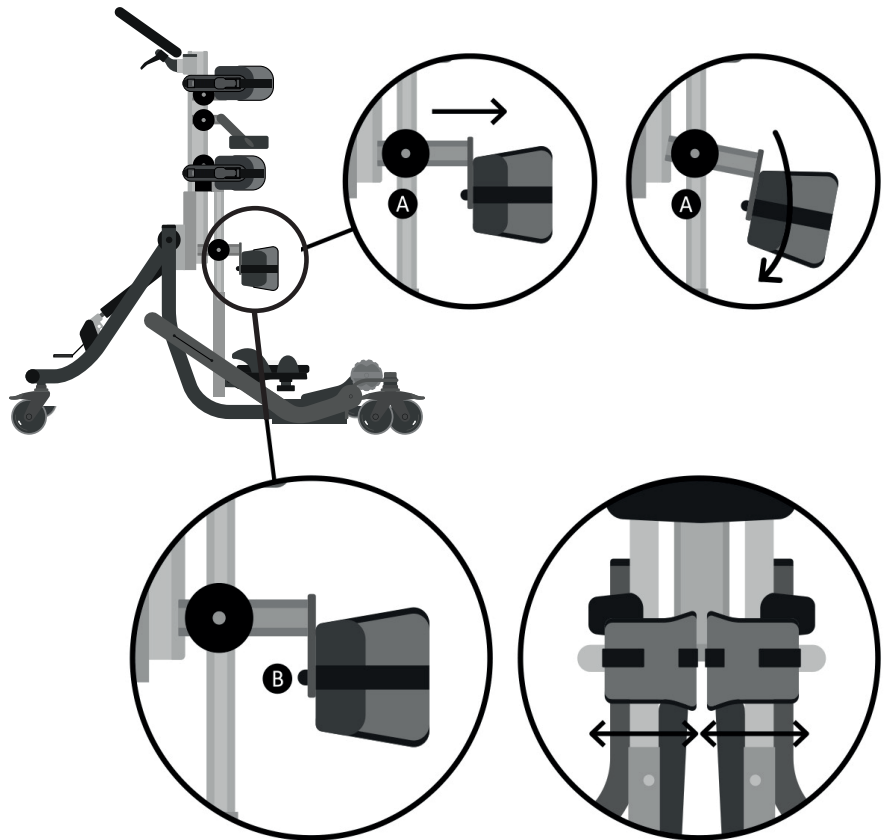
Loosen the hand knob **A** to adjust the width of the lateral supports and re-tighten when you have achieved the desired position. If the lateral supports are attached with bolts instead of hand knobs they can be adjusted with the multi tool.



  
Always use caution to ensure fingers do not become trapped when adjusting the lateral supports.

### 10.6 Adjusting the height, depth and angle of the knee cups

Each knee cup can be positioned independently. To adjust the height, depth and angle of the knee cups, loosen screw **A**, select the height, angle and depth required and re-tighten the screw securely. To adjust the width of the knee cup loosen screw **B**, set to the desired width then re-tighten.



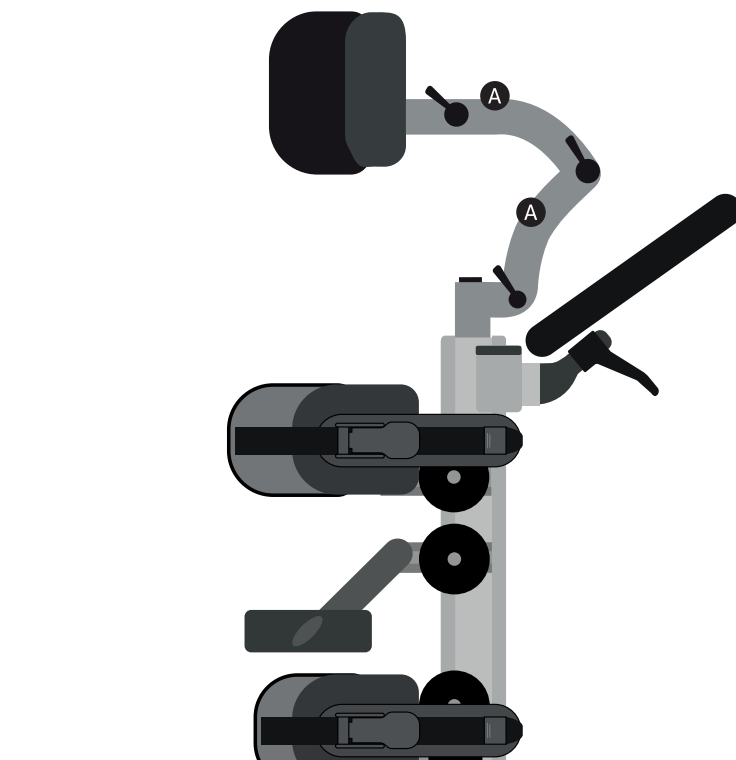


## 10.7 Headrest adjustment

The headrest should only be used for horizontal transfer and when the child has poor head control and needs training in this segment. To adjust the height, depth and angle of the contoured headrest, loosen the hand knobs **A** and when set to the desired position re-tighten the knobs.

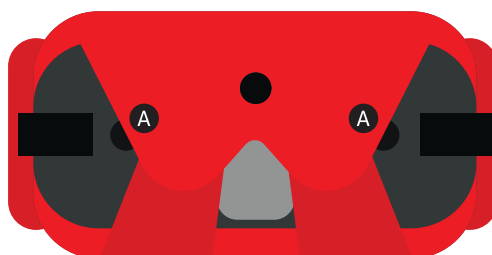


Always use caution to ensure fingers do not become trapped when height adjusting the headrest.



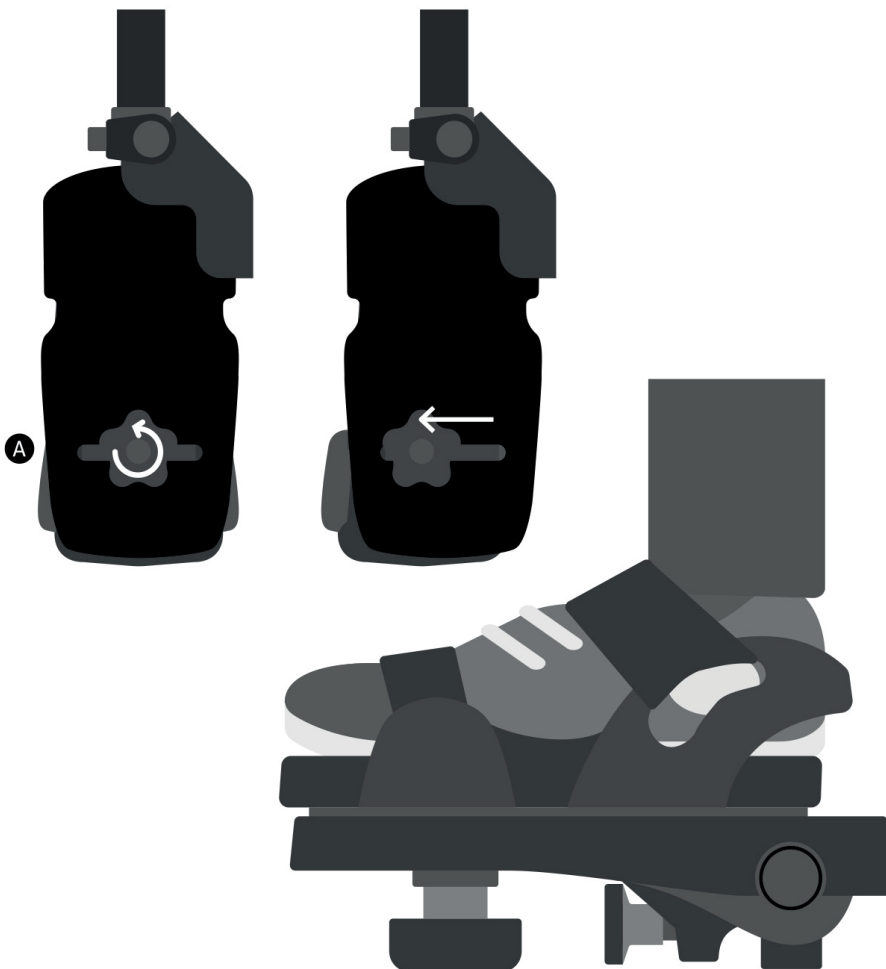
## 10.8 Flat headrest lateral adjustment

To adjust the width of the laterals loosen plastic knob **A** to desired position and tighten securely.



### 10.9 Sandals positioning

To position the sandals simply loosen the knob **A** under the footplate, select the position you require and re-fasten the knob. To position the user's feet in the sandals secure the Velcro straps provided so the foot is held in place. The straps should be placed over the bridge of the foot and over the toes. The front strap can be fed through one of two slots on either side of the sandals, depending on the size of the user's feet.



**If the child is wearing sandals or light footwear check the straps to make sure the webbing does not irritate the skin.**

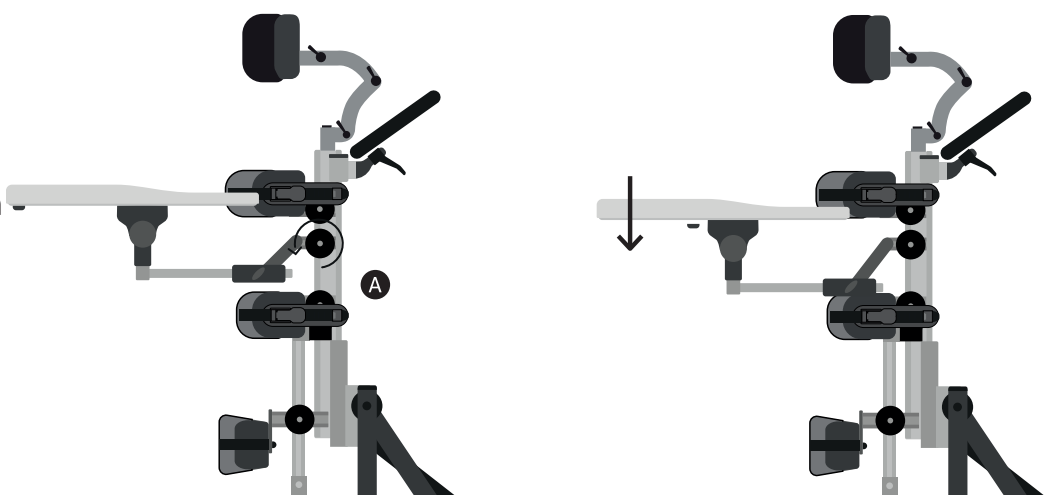
### 10.10 Footplate angle adjustment

To set the angle to accommodate plantarflexion and dorsiflexion, simply loosen or tighten the knob **A** to set the desired angle.



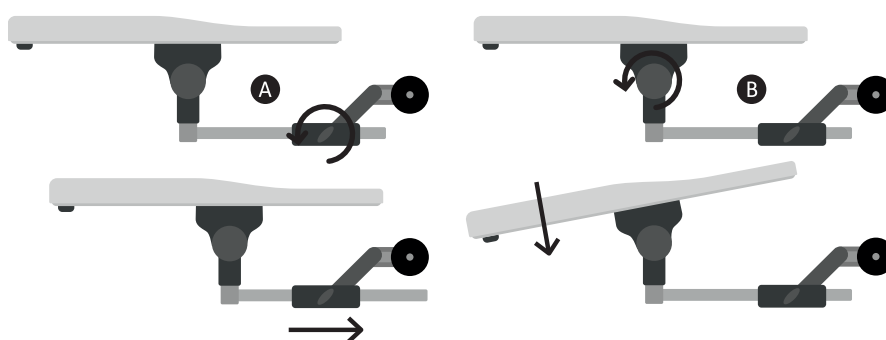
### 10.11 Adjusting the height of the tray

The height adjustment knobs for the tray are located on either side of the central spine. Loosen the 2 knobs **A**, select the required height and re-tighten.



### 10.12 Adjusting the depth and angle of the tray

Loosen the adjustment knob **A** on either side, slide the tubes along the receiving brackets to achieve the desired depth and re-tighten the knobs. To adjust the angle of the tray loosen the knobs **B** on either side of the tray, set the tray to the required angle and re-tighten.



# 11.0 Adjustment for daily use

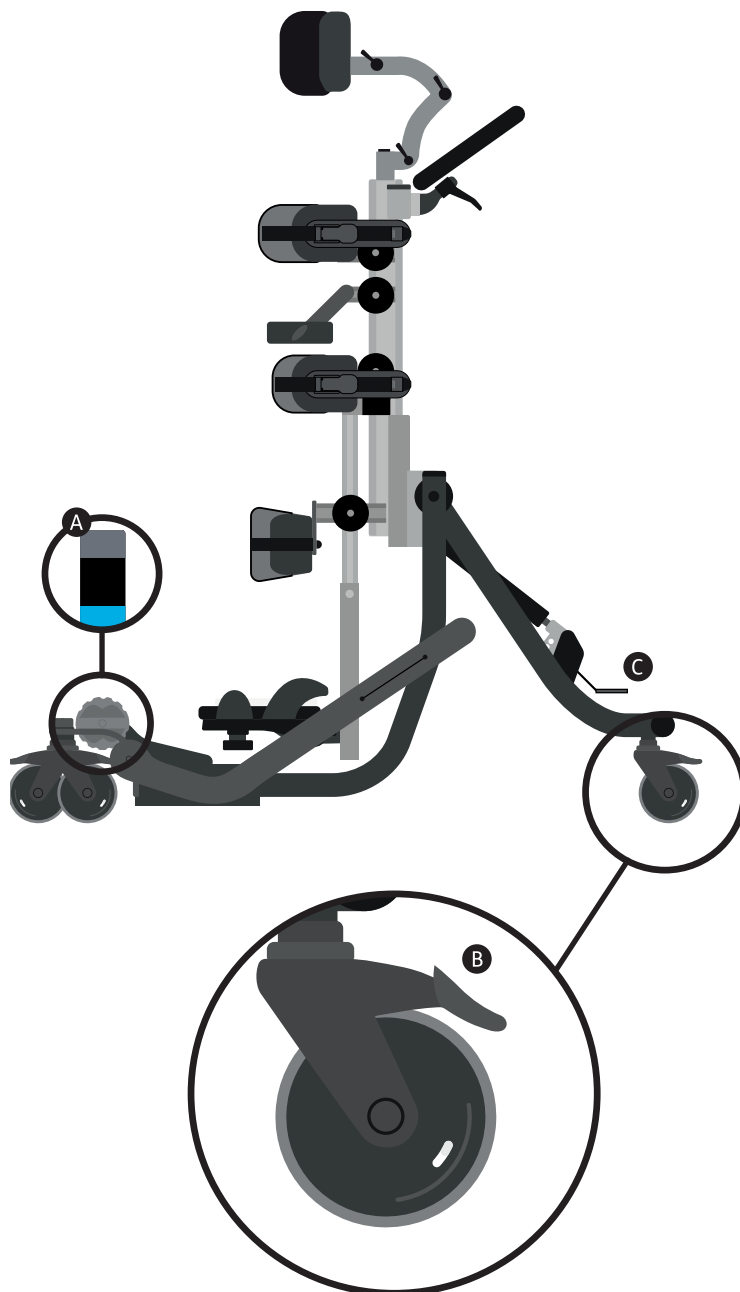
## (therapists/carers/parents)

Parents and carers should be shown how to make adjustments and made aware of the safety checks in section 6 by a technically and clinically competent person who has been trained in the use of the product. Leckey recommend that a written record is maintained of all parent and carers who have been trained in the use of this product.

### 11.1 Before transferring in to the Targeted Trainer

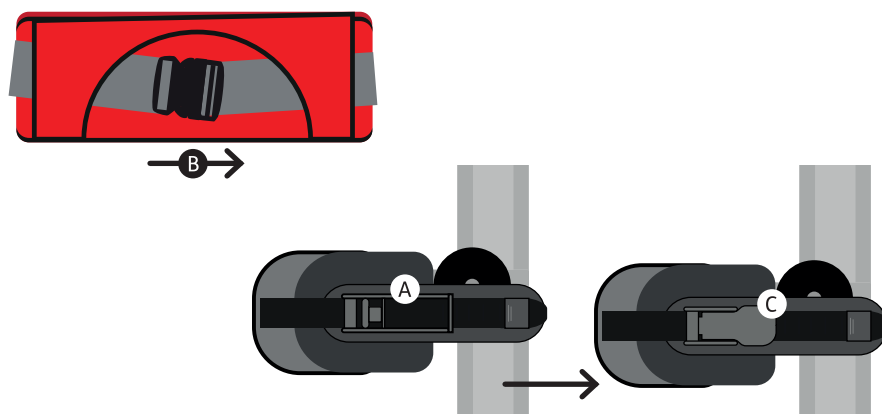
Ensure the dynamic base is in a stored position **A** (grey marker on the dynamic base) before transferring the child in to it. Carry out the daily product inspection as outlined in section 12 of this user manual. Lock all the castors **B**, ensuring that they are facing outwards to maximise product stability.

Unlock the break release point **C**. While pressing down on the break, pull the handles down so that the Squiggles TT is almost horizontal (5 degrees off horizontal). Make sure the straps on the trunk and pelvic supports are released and out of the way to facilitate transfer. Transfer child in to the Squiggles TT.



## 11.2 Pelvic support

Ensure the ratchet straps are unlocked **A**. Thread the clip and buckle through each side of the pelvic wrap and secure around child's hips **B**. Push down on the ratchet strap from above to tighten further **C**. This should be tight but not uncomfortable.



## 11.3 Knee support pads and sandals

To position the user's feet in the sandals, secure the Velcro straps provided so the foot is held in place. The straps should be placed over the bridge of the foot and over the toes. The front strap can be fed through one of two slots on either side of the sandals, depending on the size of the user's feet. Place the child's knees in the supports and secure.

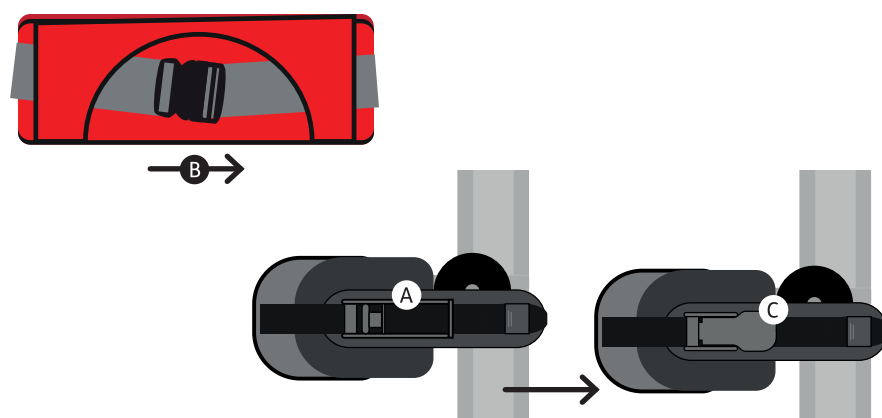


Open the knee supports fully. Insert child's knee into place. Wrap small strap over the knee, then bring the longer wrap over to ensure a snug fit over the knee. Velcro in place and secure with buckle.

Once knee is in correct position, secure cam-lock for further repeatability.

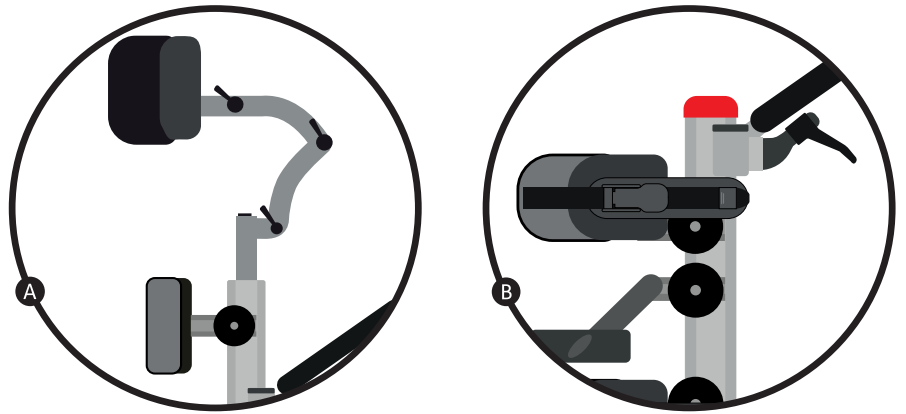
## 11.4 Trunk support

Ensure the ratchet straps are unlocked **A**. Thread the clip and buckle through each side of the trunk wrap and secure around child's trunk **B**. Push down on the ratchet strap from above to tighten further **C**. This should be tight but not uncomfortable.



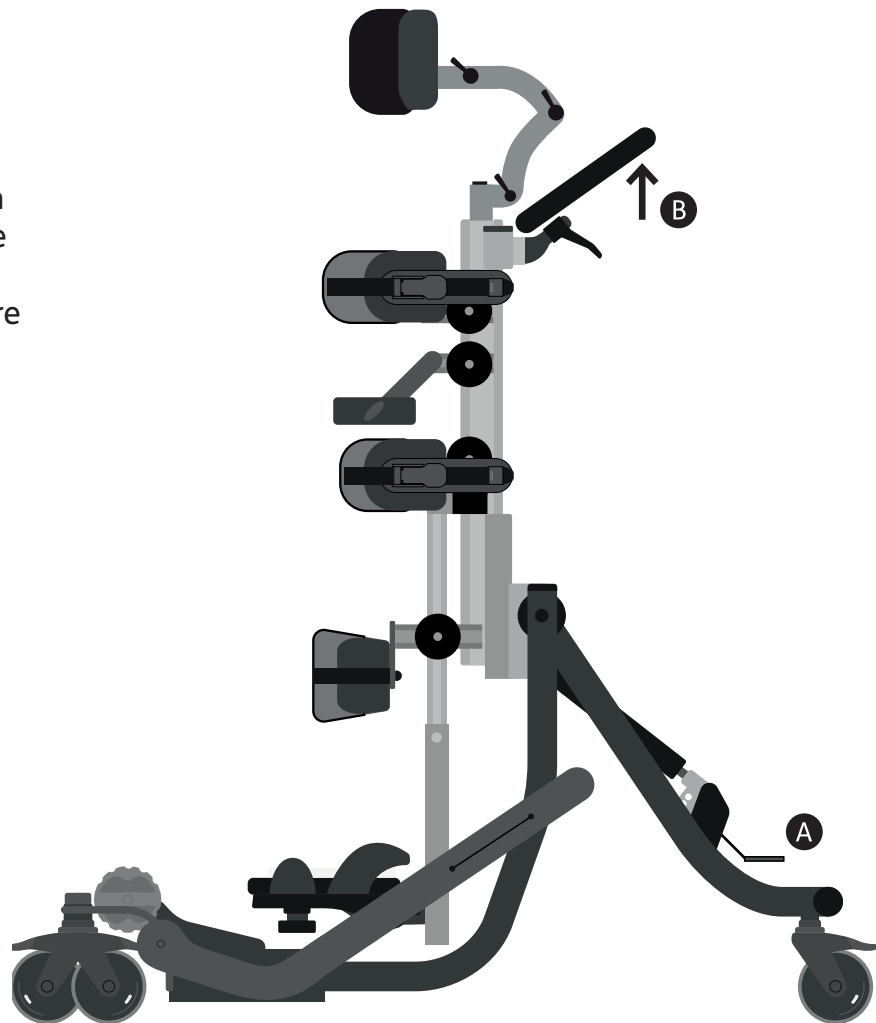
### 11.5 Head support and horizontal support

Keep this in position until the child is fully upright and then remove horizontal support. Keep headrest in position if the child has no/poor head control **A**. If appropriate, remove the head rest and horizontal support and place the spine cap over the top of the spine **B**.



### 11.6 Bringing the child upright

Press the brake **A** and push the handle bars up until the child is upright. Ensure the brake is fully engaged before letting go of the handles.



## 11.7 Dynamic base

### To engage the dynamic base:

Face the Squiggles TT, turn the dial on each side of the base towards yourself **A**. Go to the back and lift the cross bar (with your foot) until you hear a click. Push down on the bar **B** to click and lift the Squiggles Targeted Trainer handles upwards and forwards. This is now engaged (blue on indicator).

If the rocking point needs adjustment, adjust 4 bolts (2 on either side) using the multitool. Adjust to the next increment and make sure both sides are equal. This may take a few attempts to get right **C**.



### To disengage the dynamic base:

Facing the dials, turn the dials away from you until the dial clicks **A**. Lift the Targeted Trainer forward while the foot is on the crossbar until there is a click. Lift the cross bar until you hear a click. This is now in the STORED position **B**. (grey on indicator)



# 12.0 Cleaning & Care Information

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## How to Maintain

When cleaning we recommend that you use only warm water and a non-abrasive detergent. Never use organic solvents or dry cleaning fluids.

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## Upholstery and fabrics

1. The upholstery and fabrics can be cleaned by hand whilst in place. When cleaning we recommend that you use only warm water and a non-abrasive detergent.
  2. The best cleaning method is a 'wipe & dry' technique.
  3. Staining should be removed as quickly as possible with absorbent cloth, towels or a sponge. Routine soap and warm water sponging is effective for ordinary soiling and minor spills. Be careful not to over wet the fabric as this will cause the staining to spread.
  4. Antiseptic cleaning agents can be used on more stubborn stains. These may require a safe solvent such as Isopropyl Alcohol or Mineral Spirit. A half cup of household bleach to 5 litres of water can also be used as a useful disinfectant.
  5. Always ensure the product is dry before use.
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## Metal and plastic components

1. Soap and water or antibacterial spray can be used for daily cleaning.
2. For deep cleaning a low pressure steam cleaner can be used.
3. Do not use solvents to clean plastic or metal components.
4. Make sure the product is dry before use.



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# 13.0 Daily Product Inspection

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## Therapists, parents & carers

We recommend that daily visual checks of the equipment are carried out by therapists, carers or parents to ensure the product is safe for use. The recommended daily checks are detailed below.

1. Ensure all adjustment knobs and bolts are in place and secure.

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2. Check all upholstery for signs of wear and tear.

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3. Check all castors are moving freely and lock securely.

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4. Check all Velcro strips and brush fluff to ensure straps secure firmly.

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If in any doubt to the continued safe use of your Leckey product or if any parts should fail, please cease using the product and contact our Customer Care Team or your local dealer as soon as possible.

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# 14.0 Annual Product Inspection

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## **(Therapist, Technician, Product Specialist, Dealer)**

Leckey recommend that each product should be subject to a detailed inspection at least once a year and every time the product is reissued for use. This inspection should be carried out by a technically competent person who has been trained in the use of the product and should include the following checks as a minimum requirement.

1. Check all knobs, nuts, bolts and plastic buckles are in place, replacing any missing items. Paying particular attention to the following items; > Headsupport locking bolts > Chest and hip height and angle adjustments > Knee cups adjustment knobs and straps > Footrest angle adjustment.

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2. Check the chassis folding and angle adjustment mechanism is working properly. Also, check that the locking pin on the Pivot Chassis engages securely in the pedal.

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3. Lift the base to check each castor individually. Make sure they are moving freely and remove any dirt from the rubber wheels. Check that the brakes lock the wheels securely.

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4. Visually check the structure of the product paying attention to weld points on the frame ensuring there are no signs of fatigue or cracking around the welds.

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5. Leckey recommend that a written record is maintained of all annual product inspections.

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If in any doubt to the continued safe use of your Leckey product or if any parts should fail, please cease using the product and contact our Customer Care Team or your local dealer as soon as possible.

## 15.0 Re-issuing Leckey Products

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Most Leckey products are assessed and ordered to meet the needs of an individual user. Before reissuing a product we recommend that the therapist prescribing the product has carried out an equipment compatibility check for the new user and has ensured that the product being re-issued contains no modifications or special attachments.

A detailed technical inspection should be carried on the product prior to re-issuing. This should be carried out by a technically competent person who has been trained in the use and inspection of the product. Please refer to section 13 for the required checks to be carried out.

Ensure the product has been cleaned thoroughly in accordance with section 11 of this manual.

Ensure a copy of the user manual is supplied with the product. A copy can be downloaded from our website [www.leckey.com](http://www.leckey.com).

Leckey recommend that a written record is maintained of all product inspections carried out during the reissue of the product.

If in any doubt to the continued safe use of your Leckey product or if any parts should fail, please cease using the product and contact our Customer Care Team or your local dealer as soon as possible.

## 16.0 Product Servicing

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Servicing of all Leckey products should only be carried out by technically competent persons who have been trained in the use of the product.

All international service enquiries should be directed to the appropriate Leckey distributor who will be delighted to assist you. For further information on Leckey distributors please visit our website [www.leckey.com](http://www.leckey.com).

# 17.0 Technical Information

## Product and Accessory Codes

188-1600	Stander support
184-764	Pivot Chassis
188-1810-02	Cover pack – Blue
188-1810-04	Cover pack – Purple
188-1810-09	Cover pack – Red
188-1810-09VIN	Cover pack – Red Vinyl
188-680-02/04/09/09VIN	Conversion kit with covers

## Accessories

152-1600	Size 1 sandals
152-2600	Size 2 sandals
118-619	Tray
117-769	Grab rails
118-697	Headrest support
184-1814	Headrest cushion with laterals
118-687	Headrest laterals
188-630	Perturbation board

Age (approx.)	1-5
Max User Weight	22kg / 48.4lbs
User Height - Min 730mm / 28.5 inches	Max 1100mm / 43.3 inches
Trunk Support Height (Distance from footplate to armpit) Min 160mm / 6.25 inches	Max 820mm / 32 inches
Trunk / Pelvic Width - Min 135mm / 6.25 inches	Max 250mm / 9 inches
Pelvic Support Height (Distance from footplate to mid-buttock) Min 300mm / 11.8 inches	Max 530mm / 20.8 inches
Distance between mid line of knees - Min 140mm / 5.5 inches	Max 215mm / 8.4 inches
Footplate - Plantarflexion 10°	Dorsiflexion 10°
Pivot chassis angle range - 90-180°	Pivot chassis angle range 90 - 70°
Tray height - supine - Min 480mm / 18.5 inches	Max 825mm / 32.5 inches
Pivot chassis footprint (Minimum dimensions for storage) Min 5.5kg / 12.1lbs	Width 660mm / 21.7 inches Length 700mm / 27.6 inches Height 300mm / 11.8 inches
Standard support frame (Minimum dimensions for storage) Min 7kg / 15.4lbs	Width 380mm / 15.4 inches Length 890mm / 26.8 inches Height 380mm / 15.4 inches