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## ODE SEATING SYSTEM

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## TABLE OF CONTENT

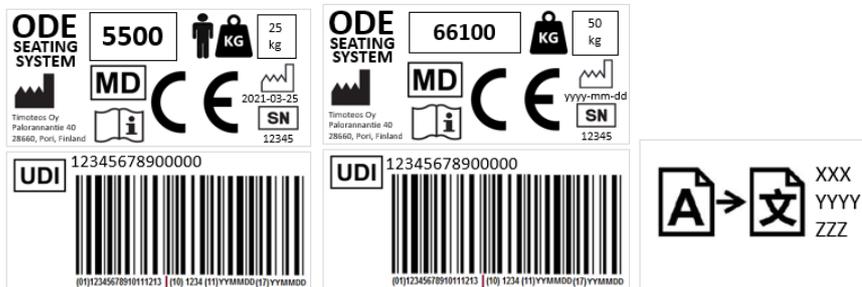
1. Intended Use
2. Conformity
3. Terms of Warranty
4. Important Information
5. Indications, Contraindications and Application Risks
6. ODE Seating System Set Up
7. Initial Setting for User
8. Adjustments in Daily Use
9. Cleaning and Care
10. Product Inspections
11. Re-issuing of the ODE Seating System
12. Product Servicing
13. Technical Information
14. Product records
15. Distributor

### Package content

- ODE Seating System according to ordered configuration.
- Charger (CH01) for battery when powered version is ordered.

## Symbols used in Labels

These product labels are an illustrative examples used in explaining the symbols.



**XXXX** Product identifier  
5500: Size Mini Seat  
5510: Size 1 Seat  
5520: Size 2 Seat

**XXXXX** Product identifier  
66100: Indoor base for size Mini seat, Manual Hi-Lo  
66101: Indoor base for size 1 and size 2 seat, Manual Hi-Lo  
66102: Indoor base for size 1 and size 2 seat, Powered Hi-Lo  
66111: Outdoor base for size 1 and size 2 seat, 12" rear wheels  
66112: Outdoor base for size 1 and size 2 seat, 16" rear wheels

**XXXXXM** Product identifier  
66101M: Indoor base for size 1 and size 2 seat, Manual Hi-Lo  
Fitted for Mini seat  
66102M: Indoor base for size 1 and size 2 seat, Powered Hi-Lo  
Fitted for Mini seat  
66111M: Outdoor base for size 1 and size 2 seat, 12" rear wheels  
Fitted for Mini seat  
66112M: Outdoor base for size 1 and size 2 seat, 16" rear wheels  
Fitted for Mini seat

Instructions for use translated by...  
Translator contact information

CE-mark symbol

Medical device symbol

Date of manufacture  
Year-Month-Day

Maximum user weight on Seat  
Kilograms

Maximum load on Mobile Base  
Kilograms

Consult instructions for use

Unique device identification number

Serial number  
12345

Manufacturer  
Name and address

## Power Unit Label



## 1. INTENDED USE

ODE Seating System is designed to be used for therapeutic rehabilitation, to achieve a good postural support and to prevent and reduce postural distortion. Product is suitable for daily seating and as a seat for a buggy.

ODE Seating System is mainly used with children and teenagers suffering of for example Cerebral Palsy (CP) at mainly GMFCS level III-V, strong extensor spasticity and developmental delays (either physical or mental). It is possible to use ODE Seating System in any similar cases where the rehabilitation of individual requires or individual benefits of well supported individual seating posture. The conditions where ODE Seating System is used are to be determined by specialized health care experts such as doctors and physio- and occupational therapists.

ODE Seating System is a module based Seating System. Each module comes in different sizing to accommodate perfectly to end user body measures creating a stable seating posture. ODE Seating System is available in 3 different sizes. Sizes available can be found from "Technical Information" sheet under section 13. ODE Seating System is available with manual or powered Hi-Lo on Indoor Mobile Base or with Outdoor Mobile Base. Both Indoor and Outdoor Mobile Base is equipped with Tilt-in-Space function. The essential performance of the tilt-in-space is to safely transfer the end user from Upright Seating Posture towards more Horizontal Seating Posture. The essential performance of the Hi-Lo is to safely transfer the end user from table height seating to floor height seating.

ODE Seating Systems are designed in a way that all adjustments of different functions can be made outside the seating system by using the 5mm hex tool or fingers. There is no need to remove or replace any parts or remove cushions off the seating system while doing adjustments or growing the Seat Dimensions when end user is growing. Due to this functionality end user can remain seated while finalizing adjustments for seating posture is made.

All ODE Seating System functions are bilateral, individually adjustable and stepless. This allows the end user seating posture to be set independently for both right and left side. This feature enables the optimal setting for example to different leg lengths, knee flexion and hip flexion.

ODE Seating System is intended to be used Indoors at home, in the school or day care environment or at hospital or clinics. Product can be used also Outdoor when equipped with Outdoor Mobile Base.

## 2. CONFORMITY

### Declaration of Conformity

Timoteos Oy as manufacturer declares that the ODE Seating System as Class I medical device conforms to the Medical Device Regulation 2017/745 and to the requirements of EU Directive 93/42/EEC and the harmonized standard EN 12182:2012 when used as intended by the manufacturer.

### Electrical Safety and EMC

Powered mobile bases of this product complies with EN 60601-1:2007 General Requirements for basic safety and essential performance and EN 60601-1-2:2015 Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral Standard:

Electromagnetic disturbances - Requirements and tests.

## 3. TERMS OF WARRANTY

A two year warranty applies to Timoteos products and modules from the date of purchase from Timoteos Oy. The warranty applies only when the product is used according to the specified conditions and for the intended purposes, following manufacturer's recommendations.

### Availability of Spare Parts

Timoteos will supply spare parts to its products for 5 years after the product is manufactured. Manufacturing date is shown on the product label.

## 4. IMPORTANT INFORMATION

ODE Seating System is a multi-adjustable and versatile seating system for children and teenagers that helps to achieve a specific and individual, comfortable seating posture. Product is to be used only in situations described in chapter 1 "Intended Use".

- 4.1. Always read instructions fully before use.
- 4.2. Ensure the product is fully assembled following instructions before use. Contact your local distributor if need advice at this stage.
- 4.3. Users should not be left unattended at any time whilst using Timoteos product.
- 4.4. Do not allow other individuals to use, play with, stand on, ride on or run around the Product.
- 4.5. Only use Timoteos approved components with your product. Never modify the product in any way. In case modification is needed always consult Timoteos before making modifications. Service or repair should only be carried out by a

Timoteos authorized service person. All services, inspections and possible modifications should be recorded. Failure to follow instructions may put the user or carer at risk and will invalidate the warranty of the product. Timoteos cannot accept any liability for injury or damage caused by unauthorized modification or unapproved components.

- 4.6. If in any doubt as to the continued safe use of your product or if any parts should fail, please cease using the product and contact Timoteos directly or your local distributor immediately.
- 4.7. Carry out all positional adjustments and ensure that they are securely fastened before you put the user into this product. Ensure all knobs and bolts in the products are securely fastened before you put the end 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 and other people who has no need for using the tool.
- 4.8. Ensure the stability of the product is maintained before placing the end user in it.
- 4.9. All positional adjustments should be carried out by therapist or other technically competent person who has been trained to use of this product and has received instructions for the correct settings for individual user from the therapist. Timoteos recommends that a written record is maintained of all people trained to the use of this product.
- 4.10. This product could have been prescribed by the therapist or doctor who should have adjusted it to meet the user needs following the prescription. In such cases, if the product has not been adjusted by such person, please do not use the product and contact to therapist or doctor in question.
- 4.11. When placing the user into the ODE Seating System, for safety reasons, always secure the pelvic and trunk belts first and lastly secure the foot straps. When used in any position it is important to ensure that all belts and straps are fastened securely before making other adjustments or using Hi-Lo or Tilt-in-Space functions. Always check that Buckle clips and Velcro's are fully engaged. If the user is wearing sandals or light footwear, short sleeve shirts or short sleeve trousers check the straps to make sure the webbing does not irritate the skin.
- 4.12. Always check with your therapist as to the correct tension of the straps for a particular end user as too much force could cause injury. Always use all positioning straps provided.
- 4.13. Fine positional adjustments may be carried out safely when the user is in the product. It is important to support all pads, straps and belts when adjusting them while user is in the Seating System.

- 4.14. When doing a hoist transfer, please ensure that the hoist sling, or any part of hoist, is not caught on any part of the seating system.
- 4.15. Always keep the Hi-Lo mechanism secured when seating height is not changed.
- 4.16. In case the ODE Seating System is mounted on Hi-Lo Mobile Base, the user is seated in the product and the product needs to be moved over uneven surface or over any obstacles we recommend that the Seating height is lowered to Floor level to reduce the risk of tipping over or the end user is taken off the Seating System while product is moved. A due care and attention should be taken if transporting in and out of the seat.
- 4.17. Outdoor Mobile Base can used outdoors under normal conditions suitable to such product.
- 4.18. Always ensure that the castor brakes are locked at all times when the Seating System is in use and not moved, being adjusted or even just stored. When locked, Castors is recommended to face away from the mobile base, as this will improve product stability. This is specially recommended when til-in-Space or Back Rest recline functions are in use.
- 4.19. When using the ODE Seating System, especially when tilting the Seat or adjusting the Seating Height, ensure that the user and all parts of the product are well clear of surroundings furnishings to avoid potential collisions.
- 4.20. Never leave the product on a sloping surface. Always remember to lock all the castors.
- 4.21. The product contains components that are removable even not intended to remove and which could present a choking hazard to small children. Always check that knobs, bolts, washers and wingnuts are in place, tightened and secured at all times.
- 4.22. Product should be kept away from all direct sources of heat including naked flames, cigarettes, open fires, electric and gas heaters etc.
- 4.23. Never place hot items on the Tray as they may damage the plastic and can put the user or carer at risk of burn.
- 4.24. Never use the Tray to steer or push the Seating System. Always use the Push Bar to steer or push the Seating System.
- 4.25. Tray is for the use of the user only. Do not lean or place heavy objects on the Tray.

- 4.26. 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.
- 4.27. Do not carry out any maintenance or service to the product while product is in use.
- 4.28. ODE Seating System is intended to be used Indoors at home, in the school or day care environment or at hospital or clinics. Product can be used also Outdoors when equipped with Outdoor Mobile Base. When not in use product should be stored in dry place.
- 4.29. Manufacturer Product Serial Number can be found from the mobile base and from the seat. Refer to these numbers in any correspondence. Product Serial Number is used to identify a single product and to track the content of the product configuration.
- 4.30. Before using ODE Seating System with electrical actuator for the first time, please charge the battery for 12 hours. Batteries should be charged overnight once every week to maintain optimum life of battery.
- 4.31. Do not operate the electrical Hi-Lo function while charging the battery to avoid potential EM disturbance.
- 4.32. **WARNING!** Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally. Use of accessories, transducers and cables other than those specified or provided by Timoteos could result in increased EM emission or decreased EM immunity of this equipment and result in improper operation. A power plug is supplied with this equipment. Please use the power plug suitable for your country. In case the supplied power plug is not suitable to your country, contact your local distributor for advice. Portable radio frequency (RF) communication equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the ODE Seating System, including cables specified by Timoteos. Otherwise, degradation of the performance of this equipment could result. This equipment is not likely to cause any harmful interference in nearby equipment; however, it can be impaired by electromagnetic (EM) interference emitted by other equipment, which can lead to malfunctions. Do not use this equipment where there is a risk that other electrical and/or electronic equipment can interfere with this equipment.
- 4.33. The safety advice and directions in this manual cannot cover all eventualities and unforeseen situations that may occur. It must be understood that common sense, general caution and care are factors that cannot be built

into this product. These are factors which the person using this product must assume responsibility for. In case the use of this product causes a severe incident this should be immediately informed to manufacturer of the product in writing as well as to the responsible institution in your country following the guidelines given by this institution.

- 4.34. When a product reaches the end of its lifetime, it should be separated by material type so that the parts can be recycled or disposed of properly. If required, please contact your local dealer for a precise description of each material. Please contact your local authorities to be informed of the options available for recycling in an environmental friendly way.

## 5. INDICATIONS, CONTRAINDICATIONS AND APPLICATION RISKS

### Indications

ODE Seating System is designed to be used for therapeutic rehabilitation, to achieve a good postural support and to prevent and reduce postural distortion. Product is suitable for daily seating and as a seat for a buggy.

ODE Seating System is mainly used with children and teenagers suffering of for example Cerebral Palsy (CP) at mainly GMFCS level III-V, strong extensor spasticity and developmental delays (either physical or mental). It is possible to use ODE Seating System in any similar cases where the rehabilitation of individual requires or individual benefits of well supported individual seating posture. The conditions where ODE Seating System is used are to be determined by specialized health care experts such as doctors and physio- and occupational therapists.

### Contraindications

Never use this product in any other condition than prescribed and determined by specialist healthcare expert.

### Application Risks

Never leave the user unattended to this product and do not allow other individuals to use, play with, stand on, ride on or run around the product. Failing to follow this may create a risk of injury to user or to other individuals.

In case the ODE Seating System is mounted on Hi-Lo Mobile Base, the user is seated in the product and the product needs to be moved over uneven surface or over any obstacles we recommend that the Seating height is lowered to Floor level to reduce the risk of tipping over or the end user is taken off the Seating System while product is moved. A due care and attention should be taken if transporting user in and out of the seat.

Never use the Indoor Mobile Base outdoors. An Outdoor Mobile Base is available in case product is to be used outdoors. Failing to follow this may create a risk of injury to user or to other individuals.

The safety advice and directions in this manual cannot cover all eventualities and unforeseen situations that may occur. It must be understood that common sense,

general caution and care are factors that cannot be built into this product. These are factors which the person using this product must assume responsibility for.

## 6. ODE SEATING SYSTEM SET UP

# MOUNTING THE CHAIR TO BASE

ODE Mini, ODE Size 1 and ODE Size 2. Indoor and Outdoor Base.

### NOTICE

ODE Seating System is equipped with Indoor Base or Outdoor Base depending on the choice made by customer. Mounting the chair to base is done same way on both bases.



### MOUNTING THE CHAIR

- Lock all the wheels in indoor base and use hand brake to lock the rear wheels in outdoor base.
- Move the Seat Locks (1) on both sides so that red end of the lock points backwards. To release the Seat Lock, first pull the release knob (1.1) below the Seat Lock downwards.
- Notice the 4 mounting pins on top of the base mounting plate (2) and the 4 mounting slots (2.1) on mounting plate under the chair.
- Tilt the base slightly backwards (3) to help the mounting of chair.
- Slide the chair in to its place (4).
  - Make sure the mounting pins on the base (2) are meeting the mounting slots of the chair (2.1).
- Lock the chair in to its place by turning the Seat Locks (1) so that the red end of the lock points sideways.
  - Make sure the release knob (1.1) slides back to its hole and firmly locks the chair to base. This is done when the Seat Lock (1) is not possible to move and the mounting pins (2) are rightly located to meet mounting slots (2.1).

## 7. INITIAL SETTING FOR USER

# INITIAL SETTING FOR USER

ODE Mini, ODE Size 1 and ODE Size 2

### NOTICE

This instruction is for initial set up of ODE chair to meet end user specific body dimensions before end user is seated to ODE chair for the first time.

The final adjustments of chair dimensions can be done while end user is seated in chair. Also the end user specific seating posture is possible to adjust while end user is seated in chair. This functionality of ODE Seating System enables the best possible fit and posture and helps creating the best possible comfort for the end user.

Detailed Instructions for making adjustments while end user is seated can be found from the User Manual.



### PRE-SETTING THE CHAIR FOR USER

- Preferably take the measures while end user is sitting.

### SEAT BACK REST & LUMBAR SUPPORT

- Measure the length from the gluteal muscle to shoulder (1). Measure the length from gluteal muscle to hip (2). Using the tool loosen the screw behind the chair and place the top of back rest cushion to the shoulder level (1). Level is measured from the top of seat cushion. Using the tool loosen the screw and place the center of the lumbar support to same level with hip (2). Level is measured from the top of seat cushion.

### BACK REST LATERAL SUPPORTS

- Measure the width of the end user trunk (3). Measure the length from the gluteal muscle to armpit (4). Loosen the wing nuts behind the chair and place the lateral support upper edge to armpit level (4). Level is measured from the top of seat cushion. Place lateral supports to width matching the end user trunk width (3).
- When end user is seated the seat cushion compresses. To anticipate this the measures (1), (2) and (4) could be reduced by 2 cm. However these can be re-adjusted also while end user is seated.



#### **PRE-SETTING THE CHAIR FOR USER**

- Preferably take the measures while end user is in sitting.

#### **SEAT HIP WIDTH**

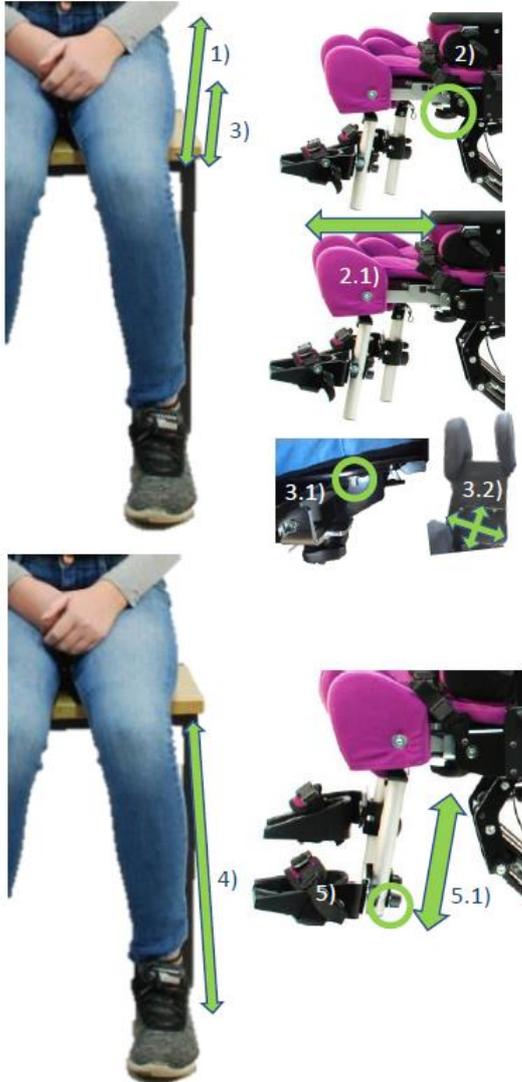
- Measure the width of the end user hip (1).
- Loosen the screws behind the chair (2) and set the hip guides width (2.1) to match the user hip width.

#### **SEAT LEG / THIGH WIDTH**

- Loosen the screw under the chair (3), right and left side separately. Moving thigh pieces sideways set the width of thighs (3.1) to match the user hip width (1).

#### **KNEE WIDTH**

- Measure the width of end user knee.
- Loosen the screw behind the inner knee pad and adjust the width of the inner and outer pads to match the end user knee width (4.1).



#### PRE-SETTING THE CHAIR FOR USER

- Preferably take the measures while end user is in sitting.

#### SEAT DEPTH & ISCHIAL TUBEROCITY

- Measure the length of end user thigh from back of knee joint to back of gluteal muscle (1). Loosen the screw under the chair (2), right and left side separately. Moving the thigh piece back and forth set the length of thigh piece (2.1) to match the user thigh length.
- Measure the length from back of knee joint to front of ischial tuberosity (3). Loosen the screws under the chair (3.1) and set the ischial tuberosity plate to same length (3.2). Rotate the plate if needed.

#### LEG LENGHT

- Measure the length of end user leg from back of knee joint to sole (4). Loosen the the screw behind the leg bracket (5) and place the foot rest behind the leg bracket to match the user leg length (5.1).

**NOTICE**

Setting of Arm Rests can be done while end user is seated.  
Table can be placed and adjusted while end user is seated.  
Belts can be adjusted while end user is seated.



**BELT TYPES**

- 1) Buckled strap in Flexible Swing-Away Lateral Supports.
- 2) Velcro enhanced buckle straps with cover in Standard Lateral Supports and Swing-Away Lateral Supports.



**ARM RESTS**

- 1) Loosen the plastic star screw to adjust the height of the arm rest.
- 2) Loosen the screw on side of the arm rest to adjust the angle of the arm rest up or down.
- 3) Loosen the 2 thumb screws at inner side, under the arm pad, to rotate the arm rest or for moving the pad sideways and back 'n forth.



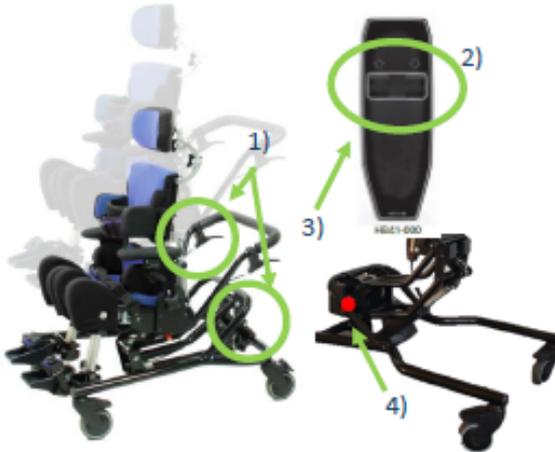
**TRAY TABLE**

- 1) Slide trays metal supports to tray holders. Tighten the thumb screw to lock the table into desired place.
- 2) Loosen the screw to adjust the angle of the tray.
  - Adjusting the angle of tray will adjust the angle of arm rest simultaneously.

## 8. ADJUSTMENTS IN DAILY USE

# Base functions

## Indoor Base, Outdoor Base



### HI-LO Function, Indoor Base

- 1) Use the right handle or foot pedal to operate High-Low function in manual Indoor Base.
- 2) Use the remote control buttons to operate High-Low function in powered Indoor Base
- 3) Charging port for battery charger
- 4) Powered Hi-Lo emergency stop

- Outdoor base does not have High-Low function available



### TILT-IN-SPACE Function, Indoor and Outdoor Base

- 1) Use the left handle to operate Tilt-in-Space function in both Indoor and Outdoor Base.



### OUTDOOR BASE

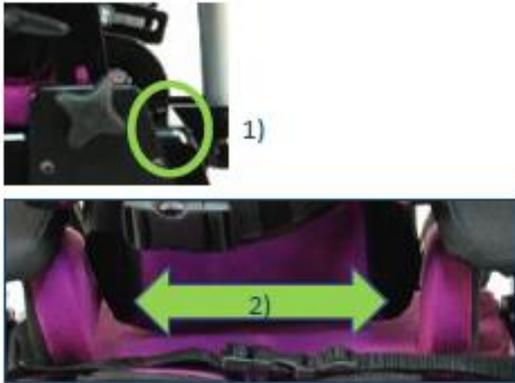
- 1) Use the right handle for Hand Brake. Use the knob on right side of hand break to lock the brake.
- 2) Use the red locks under the chair to lock and unlock the chair on to base.
- 3) Loosen the two bolts (on right and left side) of Outdoor base to slide the chair back 'n forth to balance the seating system if required.
- 4) Use the push button on push bar (left and right side) to change the angle of push bar



### INDOOR BASE

- 1) Use the red locks under the chair to lock and unlock the chair on to base.
- 2) Use the push button on push bar (left and right side) to change the angle of push bar
- 3) To lock the wheel push the pedal on top of the wheel. All wheels are swivelling and can be locked separately.

# Growth adjusting



## SEAT WIDTH HIP

- 1) Loosen the two screws behind the seat to move the Hip Guides sideways.
- 2) Measure the width of user hip and adjust the hip guides accordingly.



## SEAT DEPTH THIGH LENGTH

- 1) Loosen the plastic star screw under the seat
- 2) Measure the length of user thigh and adjust the depth of seat accordingly by adjusting leg piece back 'n forth.

## SEAT WIDTH LEGS

- 1) Loosen the thumb screw under the seat
- 2) Adjust the width of seat by moving the leg piece sideways to match the needed width.
- 3) Loosen the screw under the seat (3) to adjust the width of inner knee support (4).



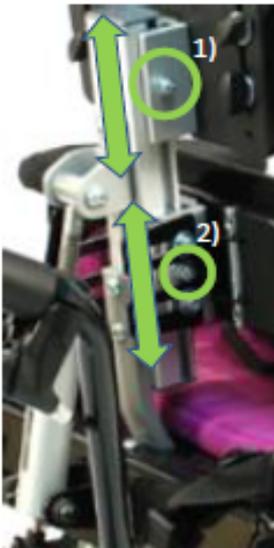
## BACK REST WIDTH (Seat Width)

- 1) Loosen the thumb screws behind the back rest to move Lateral Supports up 'n down, sideways and rotate.
- 2) Place the Lateral Supports to height and width that supports the end user most.



#### ARM REST (Seat Height)

- 1) Loosen the plastic star screw to adjust the height of arm rest up 'n down



#### BACK REST AND LUMBAR SUPPORT HEIGHT (Seat Height)

- 1) Loosen the screw to adjust height of the back rest up 'n down.
  - 2) Loosen the screw to adjust height of the lumbar support up 'n down.
- In picture back rest (1) is static and lumbar support (2) is rotational. Static and Rotational are optional features for both back rest and lumbar support



#### LEG LENGHT (Seat Height)

- 1) Loosen the thumb screw behind the foot rest bars to adjust foot rest (sandal) height up 'n down.
- 2) Measure the leg length of end user and adjust the height of foot rest accordingly

# Posture Adjusting

## Lower Limbs



### POSTURE OF LOWER LIMBS

- 1) Loosen the plastic star screw under the seat. There is separate screws on both left and right side of the seat.
  - This plastic star screw controls the movement of thighs and legs in sideways, angle and back 'n forth.



### THIGH LENGTH

- 1) Loosen the plastic star screw under the seat
- 2) Adjust the length of thigh piece back 'n forth to match user thigh length or to better match the user seating posture.



### THIGH WIDTH

- 1) Loosen the thumb screw under the seat
- 2) Adjust the width of thighs by moving the thigh piece sideways to match the desired width



### ABDUCTION / ADDUCTION

- 1) Loosen the plastic star screw under the seat.
- 2) For Abduction move the thigh piece outwards by creating an angle. Repeat to other side if needed.
- 3) For Adduction move one of the thigh pieces inwards



#### KNEE FLEXION

- 1) Loosen the screw on the side of knee pad.
- 2) Adjust the angle of knee by moving leg piece back 'n forth.



#### HIP FLEXION

- 1) Loosen the screw on the side of seat.
- 2) Adjust the hip angle by moving the thigh piece up 'n down.



#### ISCHIAL TUBEROSITY

- 1) Loosen the two screws located on both sides below the seat and right under the thigh piece.
  - 2) Adjust the place of ischial tuberosity plate (lower plate in both pictures) to match end user seating posture by moving the plate back 'n forth, sideways and rotate.
- The plate is located under the seat cushion but there is no need to remove the cushion for adjusting the plate.



**LEG LENGTH**

- 1) Loosen the thumb screw behind the foot rest bars to adjust foot rest (sandal) height up 'n down.
- 2) Adjust the foot rest up 'n down to match user leg length or to better match the user seating posture.



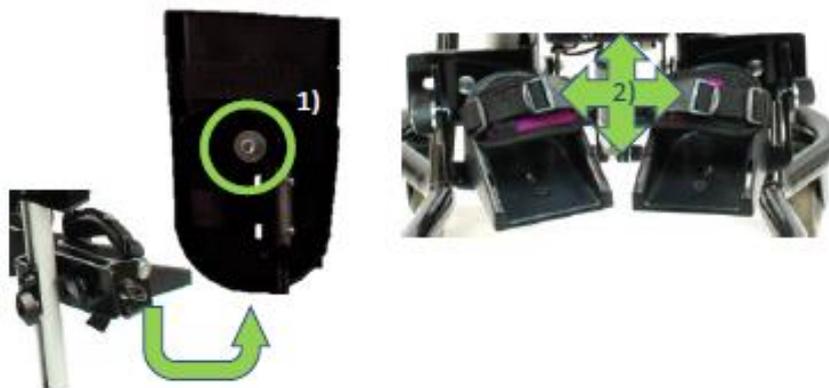
**ANKLE WIDTH, PRONATION & SUPINATION**

- 1) Loosen the thumb screw behind the foot rest.
- 2) Adjust each foot rest sideways for width and rotate for Pronation and Supination.



**DORSIFLEXION & PLANTARFLEXION**

- 1) Loosen the thumb screw on the side of the foot rest.
- 2) Adjust each foot rest up 'n down for Dorsiflexion and Plantarflexion



**EVERSION & INVERSION**

- 1) Loosen the screw below the foot rest.
- 2) Rotate each foot rest for Eversion and Inversion.

# Posture Adjusting

## Head, Arms, Tray



### HEAD REST

- 1) Loosen the 3 plastic star screws to adjust the head rest into desired position.
- 2) Remove the soft plastic cover off the metal tip of head rest. Loose the 2 screw to rotate the head rest into desired position.



### ARM RESTS

- 1) Loosen the plastic star screw to adjust the height of the arm rest.
- 2) Loosen the screw on side of the arm rest to adjust the angle of the arm rest up or down.
- 3) Loosen the 2 thumb screws at inner side, under the arm pad, to rotate the arm rest or for moving the pad sideways and back 'n forth.



### TRAY TABLE

- 1) Slide trays metal supports to tray holders. Tighten the thumb screw to lock the table into desired place.
- 2) Loosen the screw to adjust the angle of the tray.
  - Adjusting the angle of tray will adjust the angle of arm rest simultaneously.

# Posture Adjusting

## Back Rest recline, Lateral Supports



### LATERAL SUPPORTS

- 1) Loosen the thumb screws behind the back rest (4 in total).
- 2) Adjust the lateral supports to optimal position, in height, width and rotation, to support user seating posture.



### BACK REST RECLINE

- 1) Loosen the screw behind the back rest.
  - 2) Recline or straighten the back rest into desired position. Note that due to design of recline system the back rest is easier to move by pulling and pushing the back rest upwards and downwards rather than back 'n forth.
- Reclining the back rest has no impact on dynamic back functionality.

# Posture Adjusting

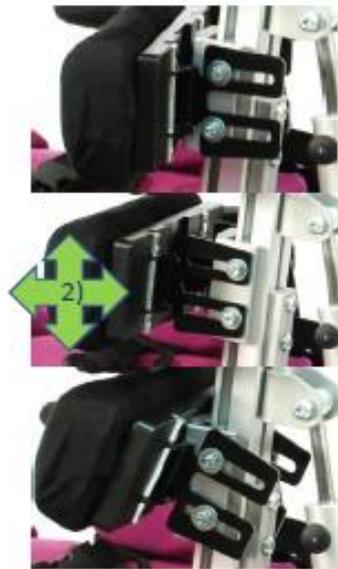
## Back Rest, Lumbar Support



### BACK REST AND LUMBAR SUPPORT HEIGHT

- 1) Loosen the screw to adjust height of the back rest up 'n down.
- 2) Loosen the screw to adjust height of the lumbar support up 'n down.

- In picture back rest (1) is static and lumbar support (2) is rotational. Static and Rotational are optional features for both back rest and lumbar support
- Height adjustments are located on the right hand side of the seat.



### ROTATING BACK REST ROTATING LUMBAR SUPPORT

- 1) Loosen the 4 screws of rotational back rest or rotational lumbar support.
- 2) Rotate the back rest and/or lumbar support to desired position.

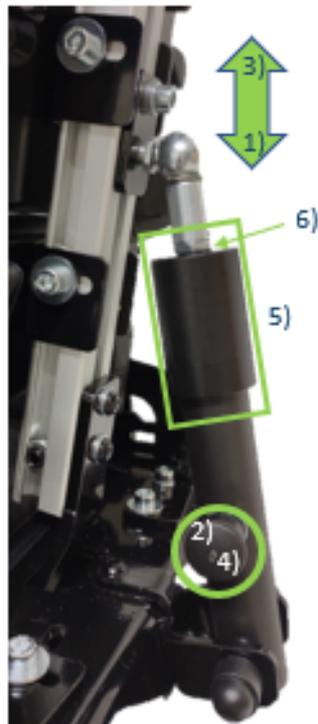
- Rotational back rest and lumbar support are optional modules and can be bought also separately to each other. In picture back rest is static and lumbar support is rotational.

# Dynamic Back Rest Adjusting



## DYNAMIC BACK REST

ODE Seating System is equipped with lockable and tensions adjustable dynamic back as standard. Dynamic function is based on metal spring which has a long life cycle. Design reduces the need of changing the spring and maintains the tension stable through out the spring life cycle. ODE's dynamic back is also lockable to static as well as tension of the back is adjustable. In case dynamic back rest is not required ODE offers a choice of changing the dynamic back element to solid metal bar and creating a fully static back rest. The location of the Dynamic back rest unit is pointed in picture by 1).



## LOCKING THE DYNAMIC BACK REST

- 1) Push the back rest a little bit downwards.
- 2) Pull the locking knob outside.
- 3) Pull the back rest forwards as long as it goes.
- 4) Release the locking knob to lock the dynamic back rest.

## ADJUSTING TENSION OF DYNAMIC BACK

- 5) Turn the thicker upper part dynamic back element to adjust the tension of back rest. Turning clockwise increases tension and turning counter clockwise reduces tension.
- 6) The amount of tension can be estimated by looking how much thread is visible on top of area you turn. The optimal back rest tension for each individual is found by trying. The tension can be reset while child is seated. This is usefull feature when the end user grows or during a day when end user is more or less active.

## Fastening the belts



### BELT TYPES

- 1) Buckled strap in Flexible Swing-Away Lateral Supports.
- 2) Velcro enhanced buckle straps with cover in Standard Lateral Supports and Swing-Away Lateral Supports.
- 3) Buckled strap with cover in Foot Rest (Sandals)



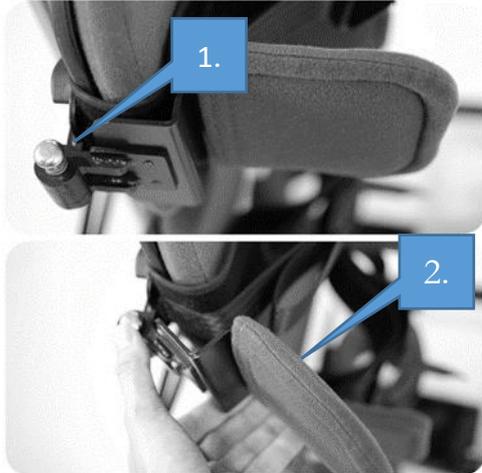
- 1) Pre-adjust the length of straps.
- 2) Close the Flexible Swing-Away Laterals
- 3) Fasten the buckle and tighten if needed by pulling the strap outwards.



- 1) Pre-adjust the length of straps. Notice the small piece of velcro outside the belt.
- 2) Turn the belt outside and use the small piece of velcro to fasten it to lateral support. This helps to keep the belts away when seating the user.
- 3) Wrap the belts around user, fasten the buckle and tighten if needed by pulling the straps outwards.
- 4) Check that there is no empty space between the belt and body. Otherwise the upper body posture might not be as stable.

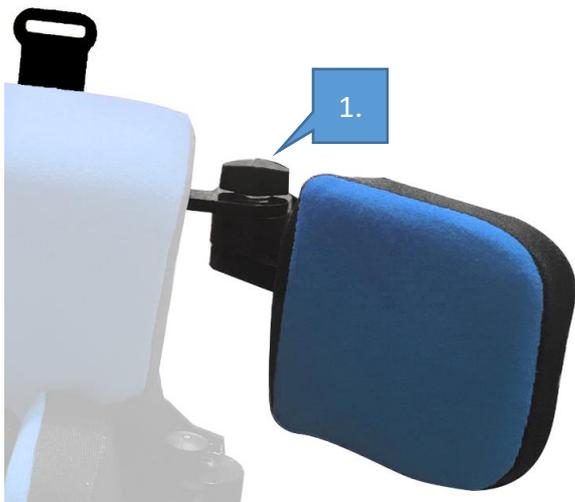
### Swing-Away Laterals (including Flexible version)

1. Pull the knob up to release lock of Swing-Away Lateral Supports
2. Move the Lateral Support sideways.



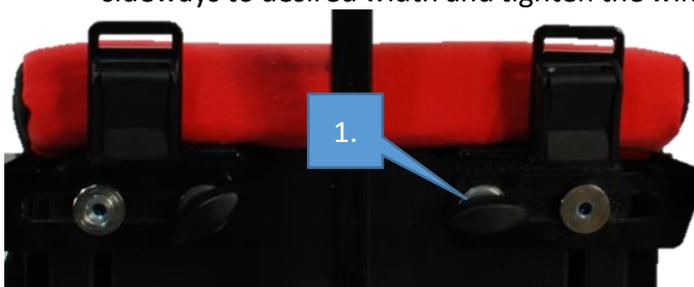
### Shoulder Protraction Pads

1. Loosen the wingnut to release the lock of Protraction Pad. Move Pad to desired location and tighten the wingnut.



### Harness Guides

1. Loosen the wingnut to release the lock of Harness Guide. Move the Guide sideways to desired width and tighten the wingnut. Adjust both sides separately.



## 9. CLEANING AND CARE

When cleaning the product, we recommend that you use only warm water and a nonabrasive detergent. Never use organic solvents or dry-cleaning fluids.

Staining should be removed from upholsteries as quickly as possible with absorbent cloth, towels or a sponge. Soap and warm water sponging are effective for ordinary soiling and minor spills. Do not over wet the fabric, as this will cause the staining to spread. Always ensure the product is dry before use.

For deep cleaning of upholstery, a low-pressure steam cleaner can be used in situ. Machine washable (up to 70°C) upholstery is available as optional accessory in case it is not put in place in the original product order. If you are uncertain whether upholsteries in your product are machine washable, contact your local distributor for guidance. When washing the upholsteries in a washing machine always remove the foam cushions from upholsteries before washing. Contact your local distributor for machine washable upholstery and guidance.

Always replace broken or damaged upholsteries and cushions. Upholsteries and cushions are available as spare parts and we recommend contacting your local distributor for new ones.

Soap and water or antibacterial spray can be used for daily cleaning of metal and plastic components. For deep cleaning a low-pressure steam cleaner can be used. Do not use solvents or high pressure washer to clean plastic or metal components. Always ensure product is dry before use.

Timoteos recommends the product is stored and transported in the temperature range of -10°C to +50°C, under relative humidity of 20% to 90% and under atmospheric pressure of 800 to 1060 hPa. Operating temperature range is +5°C to +40°C, relative humidity and atmospheric pressure as above.

Avoid storing the product for long time under extreme temperatures, temperature variations, in high humidity or in direct sunlight.

## 10. PRODUCT INSPECTIONS

We recommend that daily visual inspections of the product are carried out by therapist, carers or parents to ensure the product is safe for use. The recommended daily inspections are minimum as detailed below.

- Ensure all adjustment knobs and bolts are in place, tightened and secured.
- Check all upholstery for signs of wear and tear.
- Check all wheels are moving freely and lock securely.
- Check all Velcro straps and brush fluff to ensure secure firmly.
- Check all buckle straps to ensure the buckle functions and secure firmly.
- Check that all electrical connectors, components and cables are intact.

Timoteos recommend that each product should be subjected to a detailed inspection at least once a year and every time the product is reissued for use or any part is changed or replaced. 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.

- Check all knobs, nuts, bolts and plastic buckles are in place. Replace any missing items. Paying particular attention to the following items;
  - ✓ Buckles and Velcro bands and straps on pelvic and trunk, and foot rest buckles and straps.
  - ✓ Trunk, Hip, Knee and Foot supports adjusts and locks securely.
  - ✓ Head Rest adjusts and locks securely.
- Lift the base and check each castor individually. Make sure they are moving freely and remove any dirt from the wheels. Check that the brakes lock the castors securely.
- Check that tilt-in-space mechanism and Hi-Lo mechanism functions and the gas piston and/or electrical actuator works properly. Check that the H-Lo locking locks securely.
- Visually check the structure of the product ensuring there are no signs of fatigue or cracking around the welds.
- Visually check the plastic parts of the product ensuring there are no signs of fatigue or cracking.
- Check that all electrical connectors, components and cables are intact.

Timoteos recommends that a written record is maintained of all product inspections.

## 11. RE-ISSUING OF THE ODE SEATING SYSTEM

Most Timoteos products are assessed and ordered to meet the needs of an individual user. Before re-issuing a product we recommend that the therapist prescribing (or other medical expert entitled to prescribe) 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.

Additionally 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 10 for the required minimum checks to be carried out.

Before re-issuing ensure the product has been cleaned thoroughly in accordance with section 9.

Ensure a copy of the user instructions is supplied with the product. A copy is available from Timoteos upon request.

Timoteos recommends that a written record is maintained for product re-issuing.

## 12. PRODUCT SERVICING

Servicing of Timoteos products should only be carried out by technically competent persons who have been trained in the use of the product. All service enquiries should be directed to local Timoteos distributor who will assist you further. In case a local distributor is not available, please contact to Timoteos Oy directly for assistance. Timoteos recommends that a written record is maintained of all product services.

### 13. TECHNICAL INFORMATION

ODE Chair Main Dimension	MINI		Size 1		Size 2	
	min.	max.	min.	max.	min.	max.
Maximum User Weight [kg]		25		40		55
Seat Depth [cm]	15	24	21	31	26	37
Seat Width including hip guides [cm]	15	21	19	28	27	37
Lower Leg Length [cm]	14	21	19	29	28	37
Knee Flexion Angle	-10°	16°	-10°	20°	-10°	20°
Ankle Angle (Dorsi & Plantar)	18°	18°	16°	20°	16°	20°
Ankle Angle (Abduction)	7°		7°		7°	
Ankle Angle (Adduction)	17°		17°		17°	
Abduction per Side	0°	18°	0°	18°	0°	18°
Adduction per Side	0°	18°	0°	11°	0°	11°
Back Rest Height [cm]	26	34	33	41	40	53
Back Rest Angle	-10°	25°	-5°	20°	-5°	20°
Hip Flexion Angle	0°	-20°	0°	-14°	0°	-14°
ODE Mobile Base Main Dimension	MINI INDOOR BASE (For Mini only)		INDOOR BASE (For Mini, size1 and Size2)		OUTDOOR BASE (For Mini, size1 and Size2)	
Mobile Base Width [cm]	52		55		55	
Mobile Base Length [cm]	64		77		70	
Mobile Base Maximum Weight limit [kg]	45		85		85	
Available with Tilt-in-Space	Yes		Yes		Yes	
Mobile Base Tilt-in-Space	-5°	35°	-5°	35°	-5°	35°
Angle Adjustable Push Bar	Yes		Yes		Yes	
Foldable Push Bar	No		No		Yes	
Castor Size [dia cm]	10 (front & rear)		10 (front & rear)		15 (front)	30 or 40 (rear)
Swivelling Wheels	Yes		Yes		Yes (front)	No (rear)
Lockable Wheels	Yes		Yes		No	
Hand Break	No		No		Yes (rear)	
Available with Manual Hi-Lo	Yes		Yes		No	
Available with Powered Hi-Lo	No		Yes		No	
Mobile Base Hi-Lo Height [cm]	31	69	36	69	n/a	
LINAK Components Powered Hi-Lo	INDOOR BASE, POWERED HI-LO (For Mini, size1 and Size2)					
Actuator Voltage (LA31)	24V					
Integrated Lead Battery / Control Unit (CB8)	24V / 2,9 Ah					
Operating noise with powered Hi-Lo	48 dB					
Lifting Speed without / with load [mm/s]	8,2 / 5,4					
Battery charger (CH01)	Mains: 100 - 240 VAC / 50 - 60 Hz switch mode supply Charging Voltage: 27,6 VDC Charging Current: Max. 500 mA					
Battery charging time	6 hours					
IP Protection Class	IPX1 (Handset HB41) IPX4 (Actuator LA31)					
Duty Cycle	10%, Max. 2 min / 18 min (LA31, CB8)					
Emergency stop	Yes					
Powered Hi-Lo components	Actuator LA31, Control Box CB8, Charger CH01, Handset HB41					

## Testing for EM disturbances

Test modes during emission tests

1. Battery mode: Standby and moving
2. Use when charging: Standby

EM emission standards	Classification / levels
Conducted and radiated RF emissions CISPR 11	Group 1 Class B
Harmonic distortion IEC 61000-3-2	Class A
Voltage fluctuations and flicker IEC 61000-3-3	$d_{max} \leq 4\%$

Test modes during immunity tests

1. Battery mode: Standby
2. Use when charging: Standby

EM immunity standards	IEC 60601-1-2:2014 test levels	
Electrostatic discharge IEC 61000-4-2	$\pm 8$ kV contact $\pm 2$ kV, $\pm 4$ kV, $\pm 8$ kV, $\pm 15$ kV air	
Radiated RF EM fields IEC 61000-4-3	10 V/m 80 MHz - 2,7 GHz 80 % AM at 1 kHz	
Proximity fields from RF wireless communication equipment IEC 61000-4-3	Test frequency (MHz)	Test level (V/m)
	385	27
	450	28
	710	9
	745	
	780	
	810	28
	870	
	930	
	1720	
	1845	
	1970	
	2450	9
	5240	
5500		
5785		
Rated power frequency magnetic fields IEC 61000-4-8	30 A/m 50 Hz	
Electrical fast transients / bursts IEC 61000-4-4	$\pm 2$ kV  100 kHz repetition frequency	
Surges Line-to-line IEC 61000-4-5	$\pm 0,5$ kV, $\pm 1$ kV	
Surges Line-to-ground IEC 61000-4-5	$\pm 0,5$ kV, $\pm 1$ kV, $\pm 2$ kV	
Conducted disturbances induced by RF fields IEC 61000-4-6	3 V 0,15 MHz – 80 MHz 6 V in ISM and amateur radio bands 80% AM at 1 kHz	
Voltage dips IEC 61000-4-11	0% $U_T$ ; 0,5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° 0% $U_T$ ; 1 cycle 70 % $U_T$ ; 25 cycles at 0°	
Voltage interruptions IEC 61000-4-11	0 % $U_T$ ; 250 cycles at 0°	



## 15. DISTRIBUTOR