Closomat Aerolet installation & user guide.



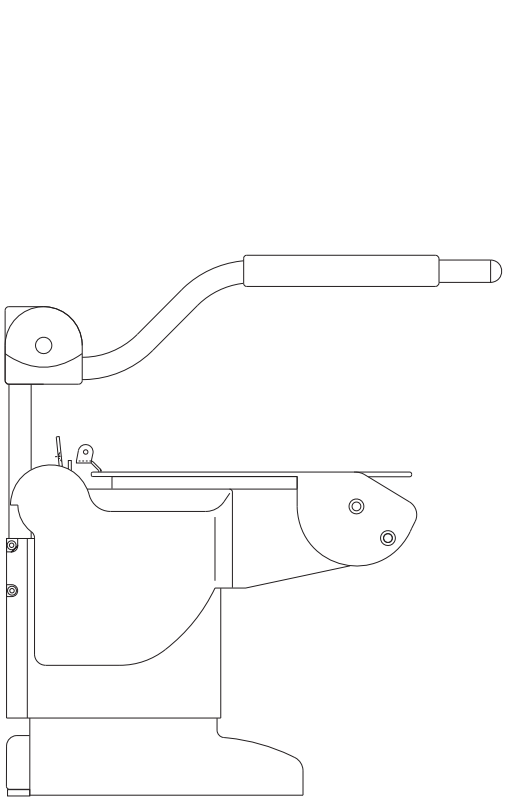
closomat®

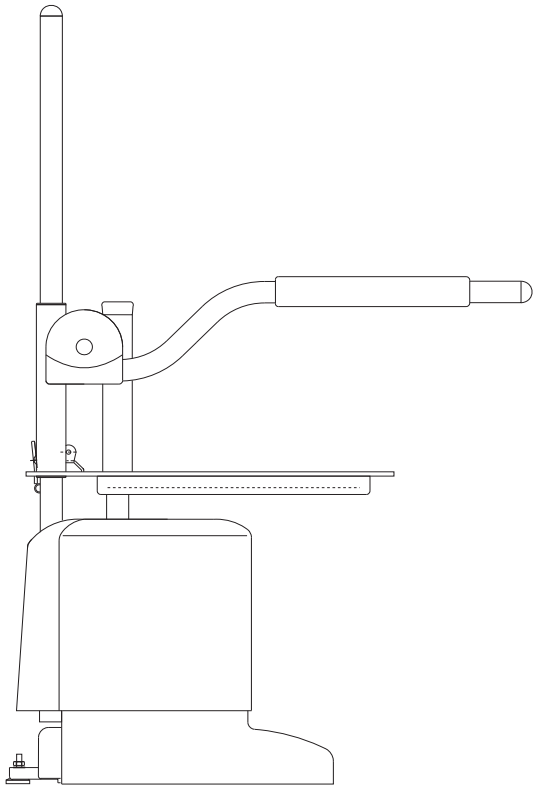
Aerolet® toiletlift

The ergonomic toilet-aid

Manual and Installation

Palma and Samoa





TILTING

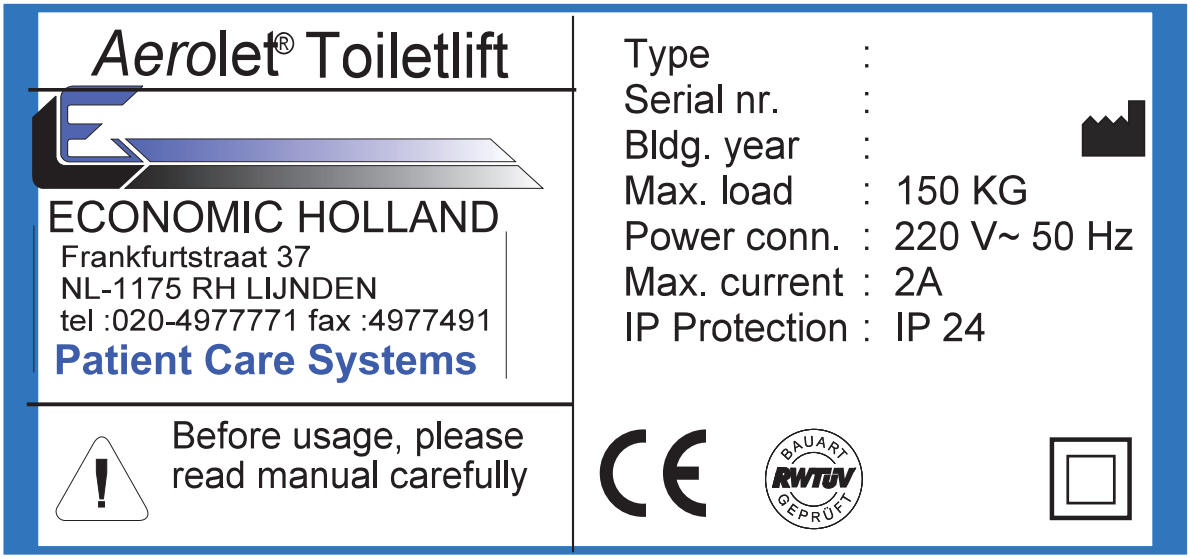
VERTICAL

®

Aerolet made by Economic Holland b.v

Specifications

Data of your own toilet lift are:



Measurements:	Vertical	Tilting
Width	69 cm	76 cm
Depth	56 cm	56 cm
Heighest position		
when toilet bowl = 39,5 cm	80 cm	75 cm
when toilet bowl = 50 cm	90 cm	88 cm

Height adjustments:

Bowl height : 39,5 - 52 cm
Arm supports : 73 - 113 cm
Lower leg length : 36 - 53 cm

Net weight : 33 Kg
Length power-cable : 275 cm

Max. load : **150 Kg (330 lbs)**

Max. load : **250 Kg (550 lbs)** (Aerolet type Bariatric)

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Preface

Dear user,

Congratulation on your purchase of the *Aero*let® toilet lift.
This state of the art assistive device has been delivered to you with great pride in its design and quality.
The revolutionary design concept of the *Aero*let® has evolved from years of research and development.
We are confident that you, the user, will find your *Aero*let® is easily maintained, attractive and ergonomically correct.
The multiple adaptations and adjustments of the *Aero*let® can be custom fitted for a specific person or adjusted to accommodate multiple users.
The ideal support of the *Aero*let® moves the trunk forward as the users center of gravity is brought above the feet while the knee and hipjoints simultaneously straighten to a normal, natural standing position.
Your toilet can always be used with the toilet lift in its down position by those that do not require the *Aero*lets® assistance to stand. After proper installation of your toilet lift by your certified dealer the *Aero*let® is ready for use.

! This Manuel contains important information for installation, use and maintenance of the *Aero*let®.
The installer and user should read this manuel carefully before installing or using this product. Should you have any questions regarding the *Aero*let® after its installation, please contact your dealer / installation company.

Cleaning & maintenance of *Aero*let

- The *Aero*let® is designed for easy cleaning.

Warning !

Isolate or switch off the *Aero*let® from the GFCI when cleaning the lift.

- The *Aero*let® should be cleaned with each routine bathroom cleaning.

- **Do not use chlorine bleach and/or hydrochloric acid (scale solvents) based products to clean the lift**.

Warning !

NEVER pour over or spray the toilet lift with water unless it is a shower lift.

- **Do not clean under the covers with liquids**.

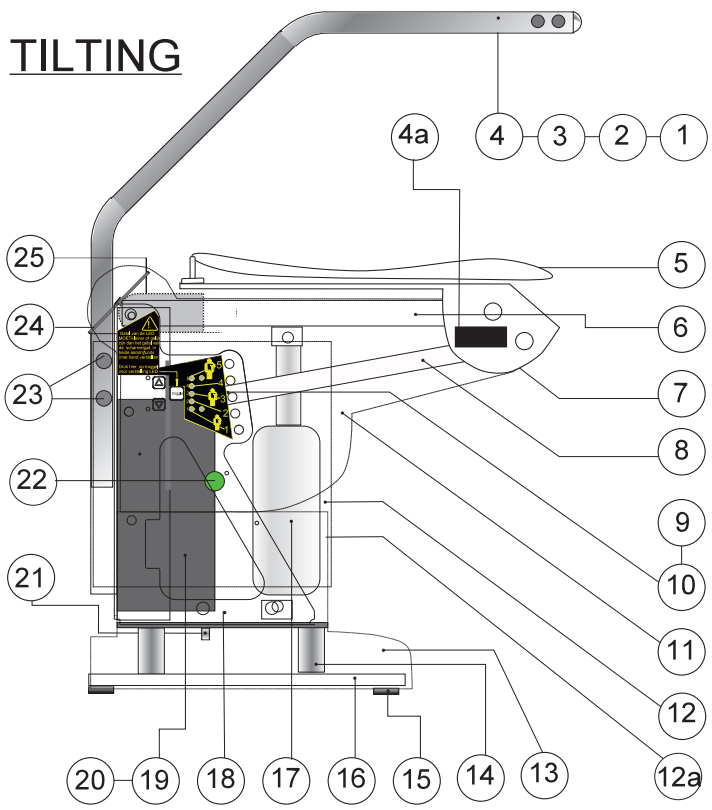
- The covers can be cleaned with a moisture tissue on the outside.

! **Only** specific seats can be used on the *Aero*let® toilet lift.

- When the seat is damaged, please contact your certified professional for assistance.

! When replacing the *Aero*let® please subject the lift to inspection and testing by your certified professional dealer.

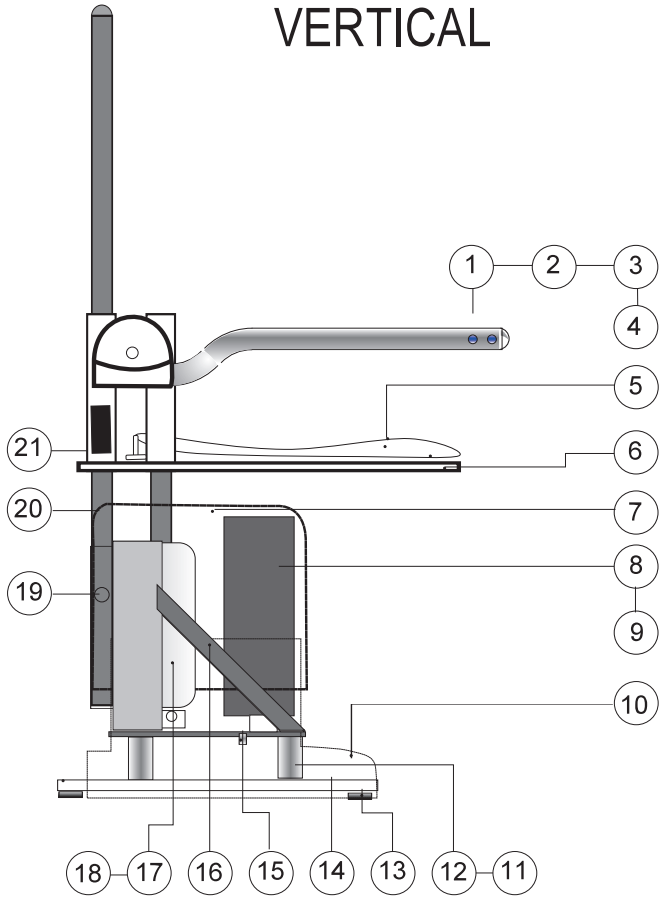
TILTING



1 armsupport with right control
2 armsupport right
3 armsupport with left control
4 armsupport left
4a serialplate
5 toilet-seat
6 rise-support left and right
7 frame-seat
8 adjustable support L + R
9 staunch **F** L + R
10 locking-spring E L + R
11 cover A L + R
12 cover B L + R
12a coverplate G L + R
13 cover **C** L + R
14 adaptor **K** up to10 cm (40 to 50 wc)
15 adjustable height-base (4 pc)
16 floor frame **R** left and right
17 actuator left and right
18 basic frame **B** left and right
19 control box in right unit
20 back-up battery in left unit
21 ground wire clamp on left unit
22 control light
23 locking screw armsupport L+ R
24 coverplate L + R
25 fastening-strip **A**

Left and right is seen from the sitting-position on the lift.

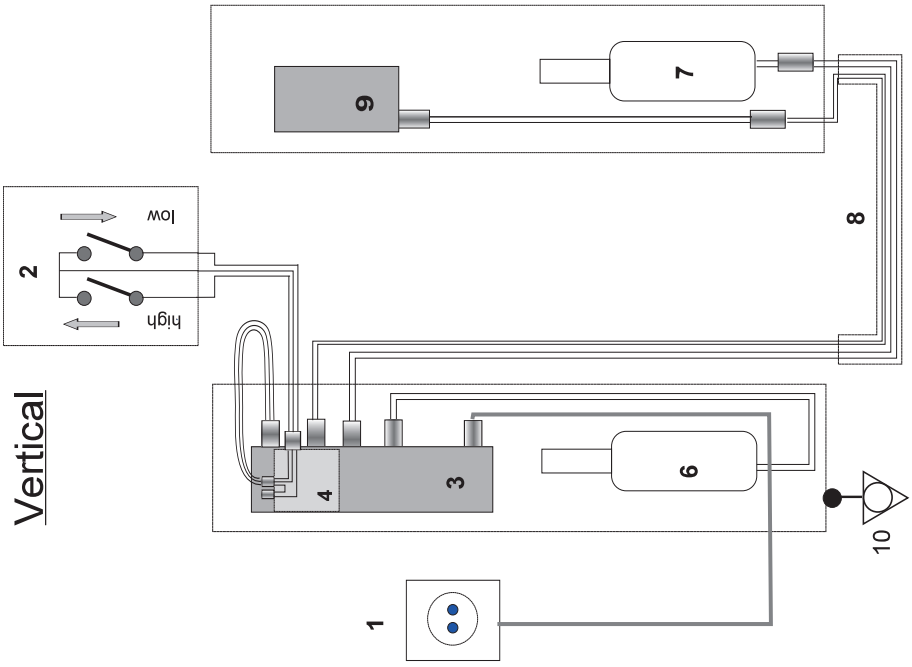
VERTICAL



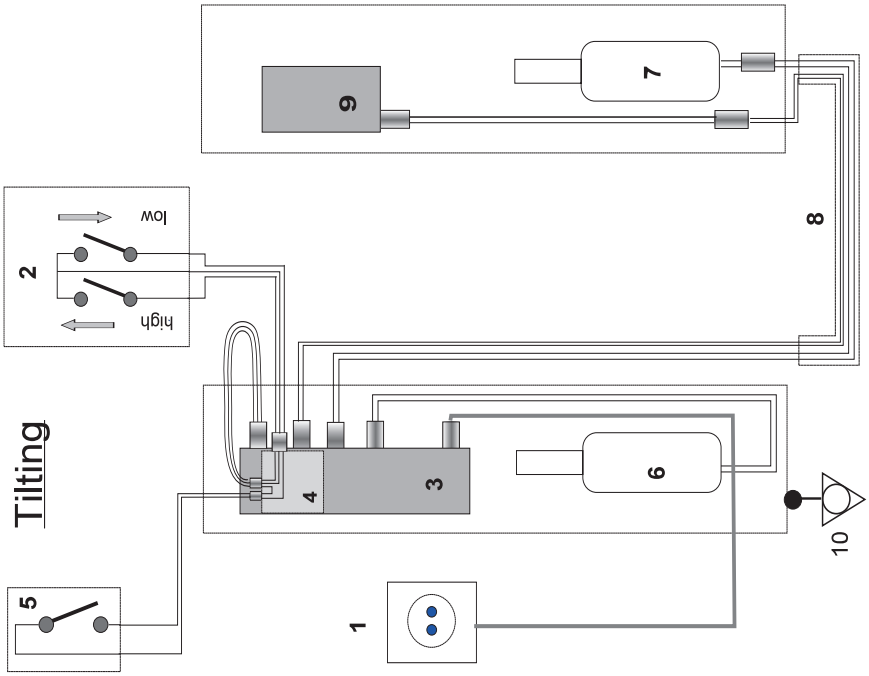
1 arm support with right control-foldaway
2 arm support right - foldaway
3 arm support with left control-foldaway
4 arm support left - foldaway
5 toilet-seat
6 rise-support
7 top cover left and right
8 controlebox
9 back-up battery
10 foot cover left and right
11 adaptor K + 6 cm (46 wc)
12 adaptor K +10 cm (50 wc)
13 adjustable height-base (4 pc)
14 foot frame left and right
15 ground wire clamp
16 basic frame B left and right
17 actuator left
18 actuator right
19 locking screwarmsupport (4pc)
20 giding tube left and right
21 type shield

Left and right is seen from the sitting-position on the lift

The *Aero*let wire diagram



1 Plug socket
2 Operation lift
3 Controlbox Typ: CB6S634-IP66
4 Connection wire with plugs
5 Actuator rightTyp: 2851R0+0040011X-IP65
6 Actuator left Typ: 2851R0+0040011X-IP65
7 Connection tube with wire passage.
8 Battery Back-up (option)



1 Plug socket
2 Operation lift
3 Controlbox Typ: CB6S634-IP66
4 Connection wire with plugs
5 Incline-switch
6 Actuator rightTyp: 2851R0+0013511X-IP65
7 Actuator left Typ: 2851R0+0013511X-IP65
8 Connection tube with wire passage.
9 Battery Back-up (option)

Important information

Never change lift settings yourself, but leave this to an authorized person.
Lift repairs may only be done when power is off !

Your *Aero*let® toiletlift is absolutely not a toy !

Pay special attention to warning symbols used in this manual

- improper use may cause injury to the user !
- improper use may cause damage to the *Aero*let® !

Danger of hand-jam.

NOTE - HOT PLUGGING !!

Removing or adding any OPENBUS cables are not allowed when the CB is powered by mains supply!

If needed anyway follow the below procedure:

1. ***Remove mains and wait 5 sec.***
2. ***Mount or dismount the required cables***

If this procedure is NOT followed it may result in damaged OPENBUS driver circuit.
The risk of a damaged circuit increases if the accessory has a high start current (in rush current).

Guarantee and Repair

Economic Holland b.v. guarantees the *Aero*let® against material and manufacturing faults from 12 months from the purchase day. The guarantee period starts from the delivery- or the installation day when placed by an authorized dealer.
During this guarantee period the authorized dealer will replace or repair at his own choice the faults.

Exclusions

Your *Aero*let® guarantee is not applicable on faults which will result in the following:

- wrong or inadequate maintenance by the user.
- unauthorized adjustments and/or adaptations or misuse.
- usage outside the environment-specifications wherefore the product is meant for.

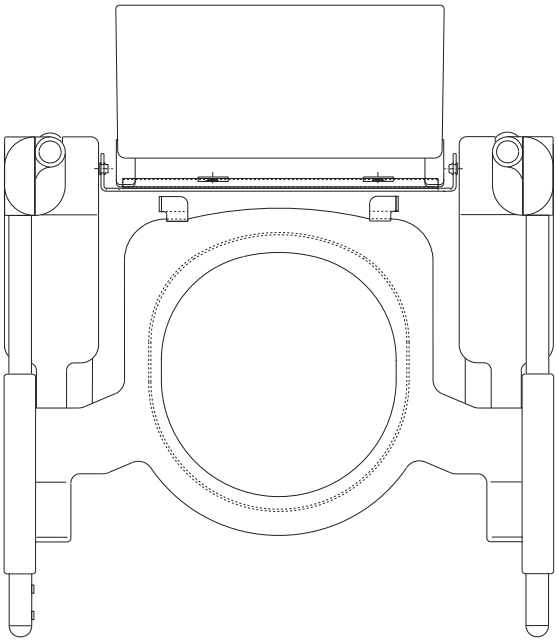
Repair

Repairs must only be carried out by an authorized person.
Parts under guarantee must also be returned to
Economic Holland b.v.

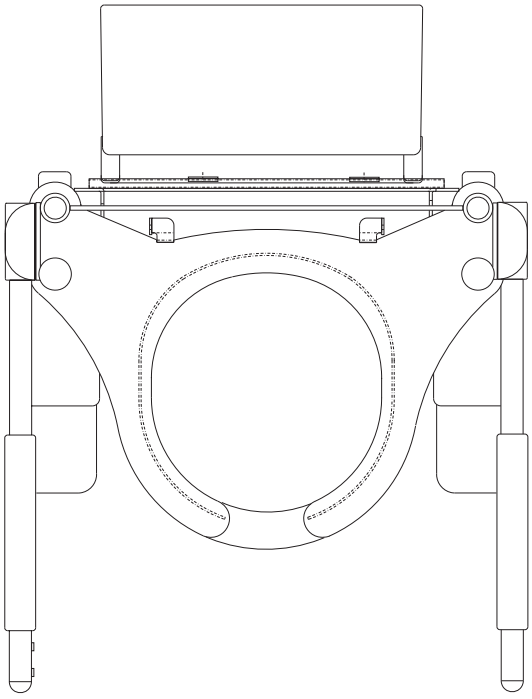
Warning !

When the *Aero*let® will be opened unauthorized, there is a risk of subsequent malfunction.

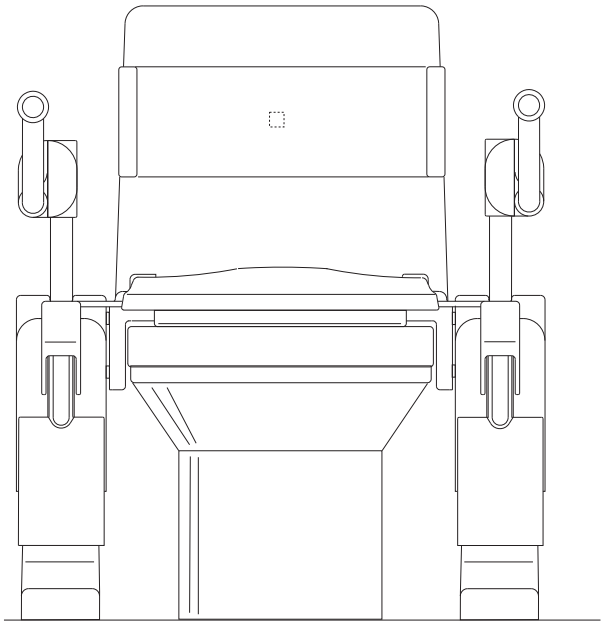
VIEW FROM ABOVE OF SEVERAL FORMATIONS



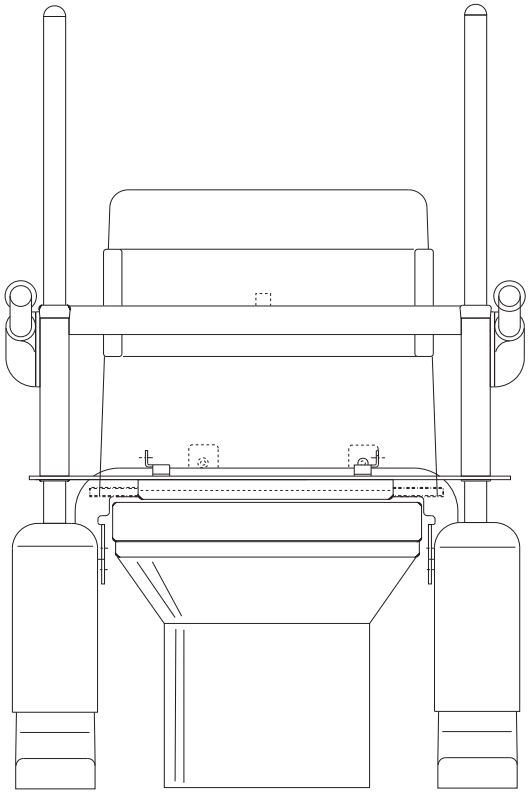
Palma bowl with Tilting Aerolet Aerolet



Palma bowl with Vertical Aerolet



Palma bowl with Tilting Aerolet



Palma bowl with Vertical Aerolet

Formation of an *Aero*let toilet lift

- For installing the strip of the lift a minimum of 105 mm is needed from the wall to the center mounting holes in the bowl (where the existing toilet seat was mounted)
- To each side of the *Aero*let®, a 50 mm space is necessary to adjust the lift-rise settings.
- The diagram below gives an example of where the GFCI (ground fault circuit interruptor) can be installed.

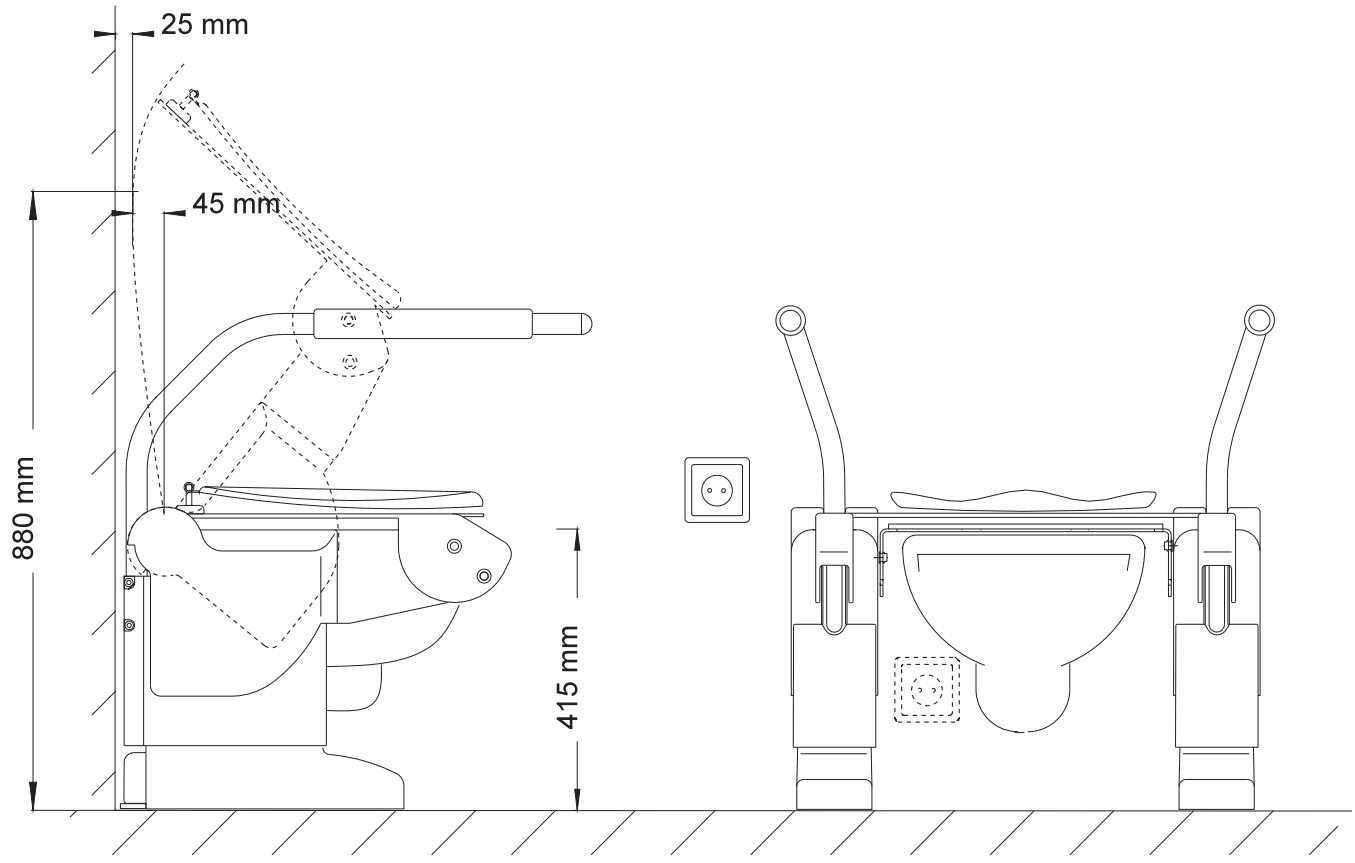
WARNING!

During the rise, the frame-seat will move a maximum of 45 mm backwards leaving a free space of about 25 mm between the frame-seat and the wall with a height of 880 mm.

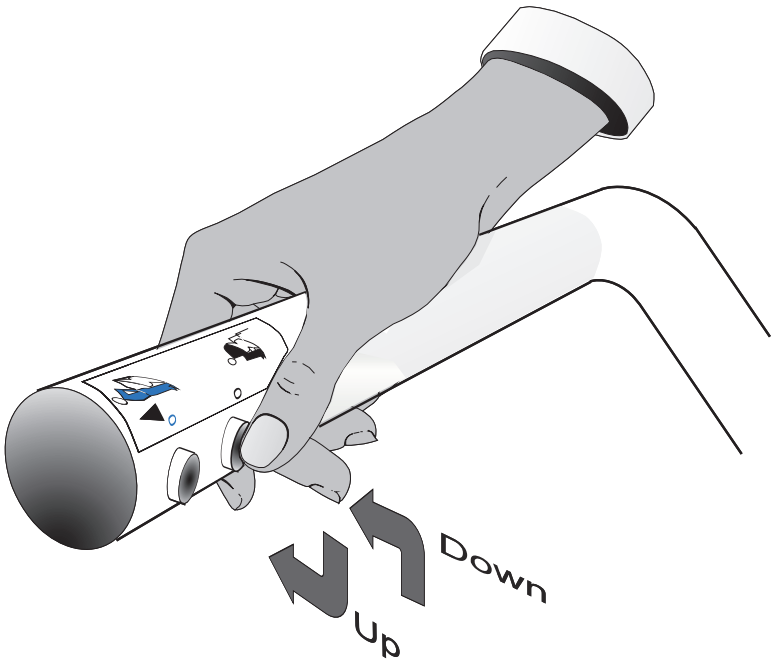
WARNING! Danger of hand-jam

- **The users hands must always be on the arm supports or in the lap when the *Aero*let® is in motion.**

Note: 415 mm is bowl height



Standard Control

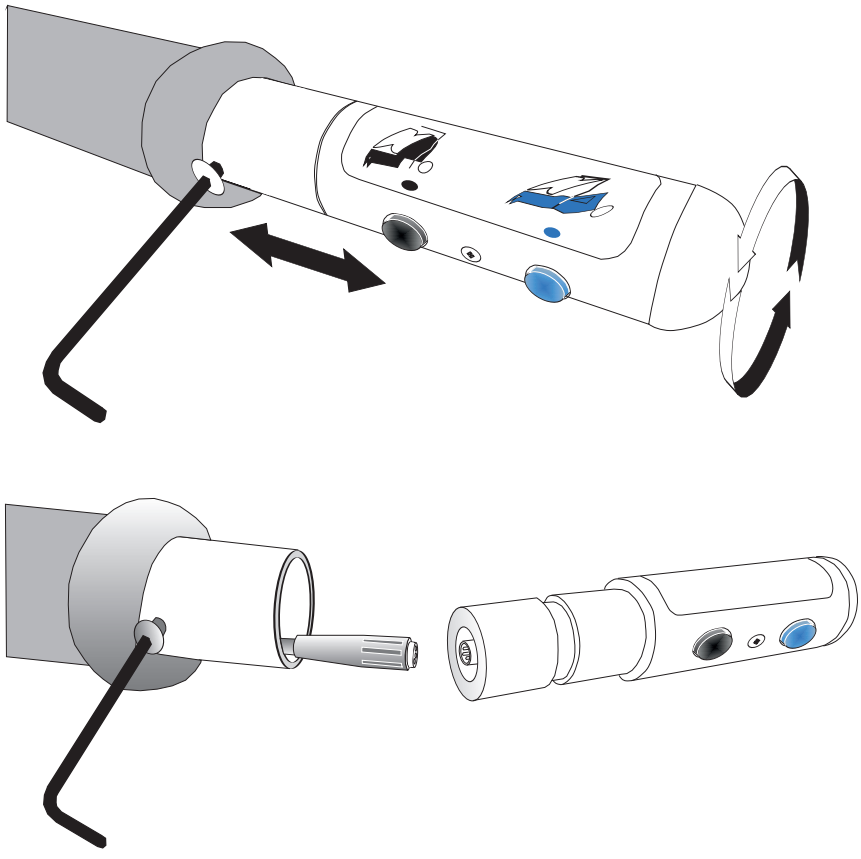


Warning!

Danger of hand-jam.

When the lift is in motion your hand(s) must always be on the arm supports or in your lap**.**

Versatile switch control (option)



Operation instructions

- The *Aero*let® toilet lift operates by two easy press button controls. These buttons are situated on the inner side on one of the arm supports.

- The BLUE BUTTON = UP
  (controls the upward movement of the lift)

- The BLACK BUTTON = DOWN
  (controls the downward movement of the lift)

- The *Aero*let® stops automatically at the level, which set from the beginning.

- The *Aero*let® stops with the release of either buttons.

- No continued movement will occur once the lift reaches the preset stopping point. The *Aero*let® toilet lifts' drive system will recalibrate itself each time it reaches its lowest point.

- When the *Aero*let® is installed on a the Closomat model, the washing and dryer system will operate when the *Aero*let® reaches its lowest point.

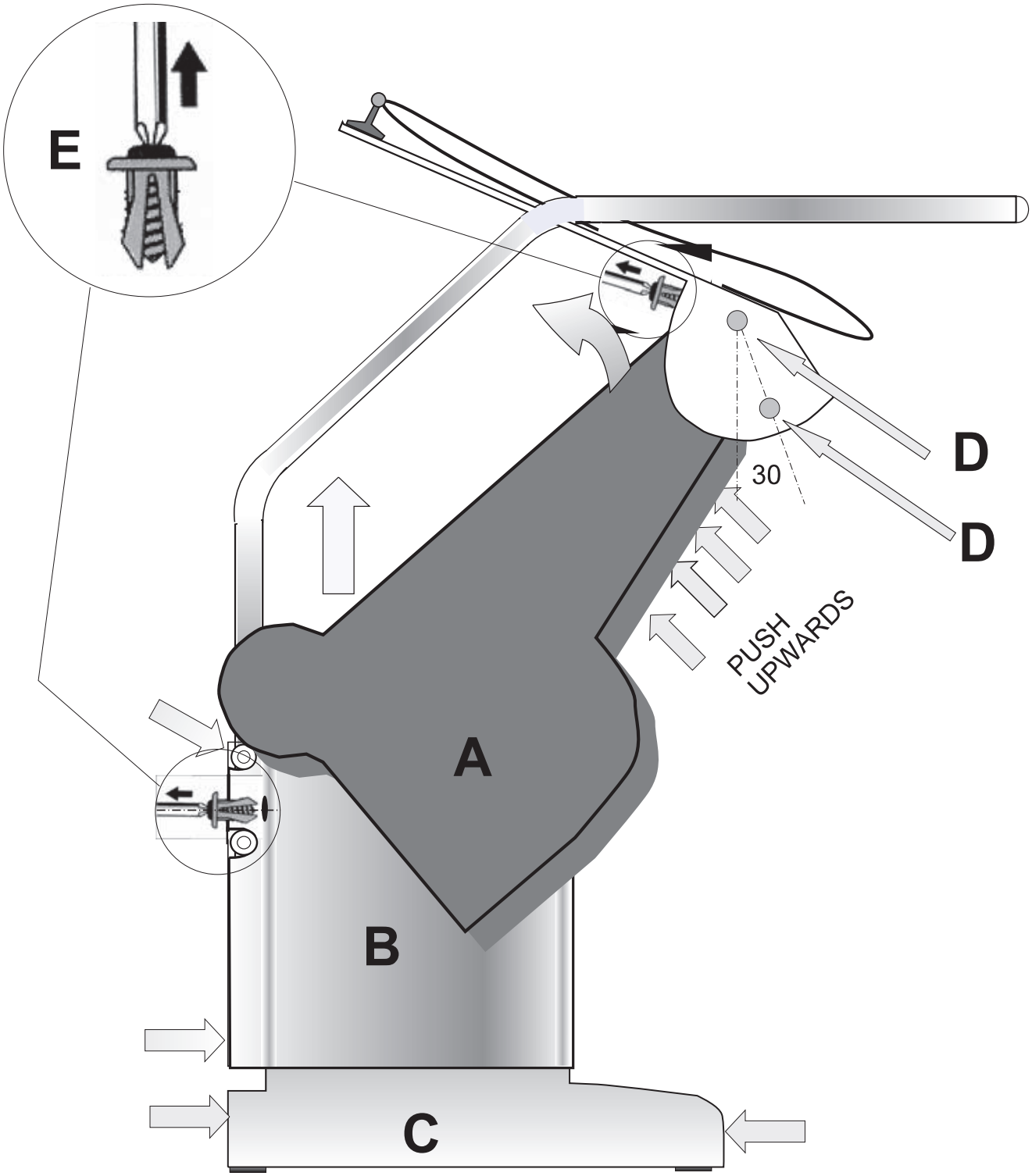
! If both buttons will be pressed, the lift stops. Please release both buttons for using the lift again.

Battery Back-up (option)

- When there is a power failure the battery will take care for five times use of the lift, before it is empty.

- When the battery is in use the lift operates half the speed and you must wait five seconds before switching the up- and down buttons.

- The power failure must be remedied as soon as possible, so that the lift can function normally and the battery will be charged automatically


E
D
D
30
PUSH
UPWARDS
A
B
C

Removal and installation of the covers

⚠ WARNING

- The user must NEVER remove or install the covers of the lift.
- This should only be changed by a certified professional.

REMOVAL

- All covers are fastened to the frame with Velcro®.
- For removal of the covers, the lift must be moved upwards so that the hinge points **D-D** make a 30 degree angle with the perpendicular sides of the lift.
- Remove the two rivits **E** out of the cover **A** and **B.**

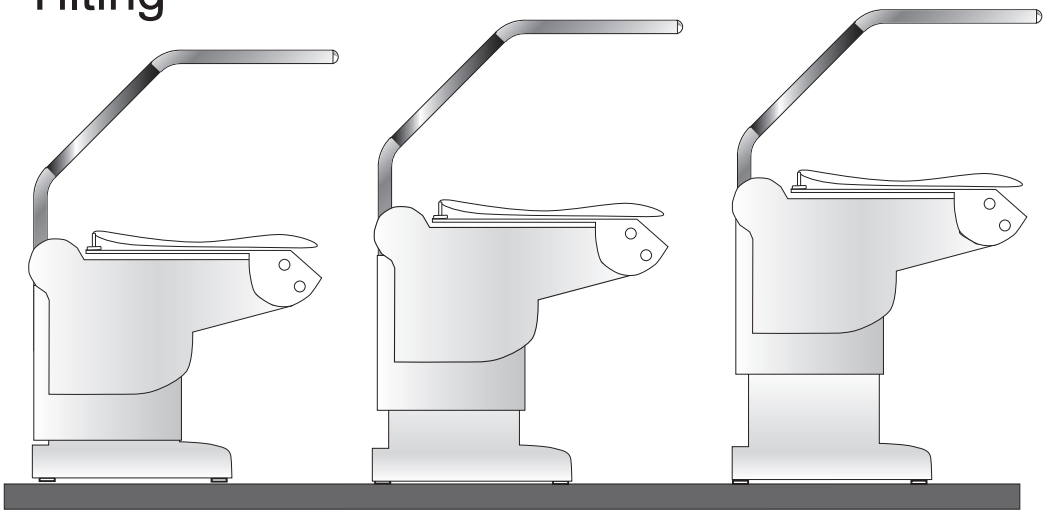
Remove cover **A** first, then **B** and **C**.

INSTALLATION

- Position the lift as described above for removal of covers.
- Install the cover **C** first, then **B** and **A**.
- The covers will overlap eachother.

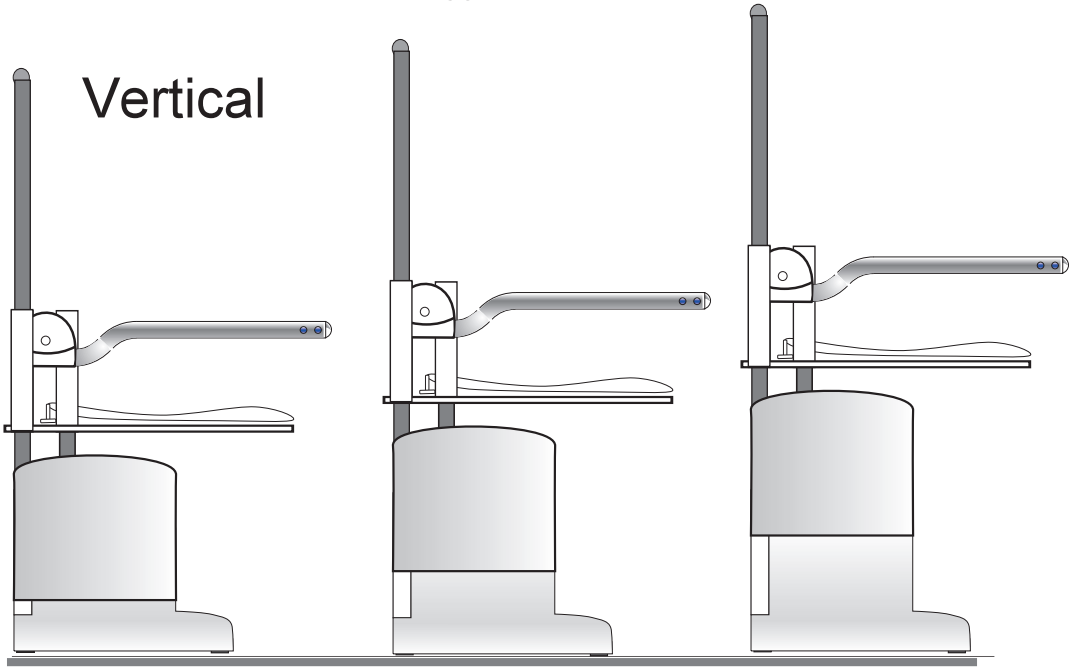
! Please be sure that the covers are placed on the outside of each other prior to operation of the lift. Damage can occur to the covers if improperly installed.

Tilting

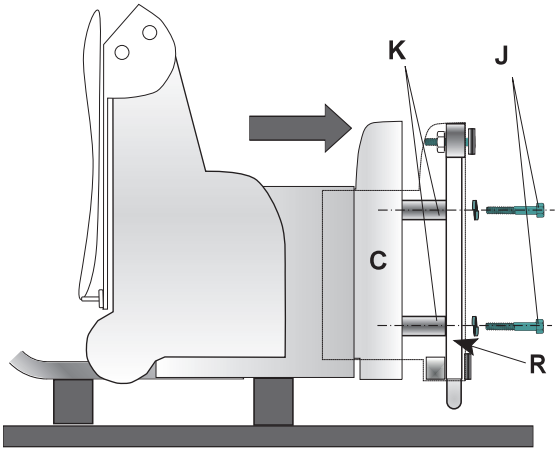


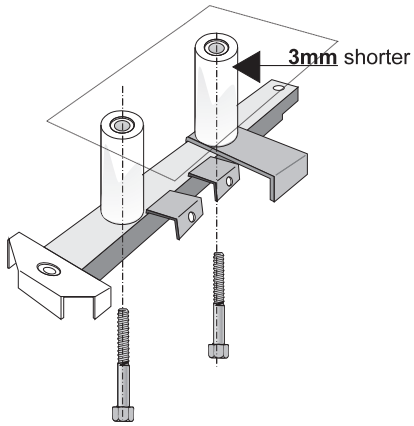
40 cm 46cm 50 cm

Vertical



40 cm 46 cm 50 cm





Prepair the *Aero*let for a “height” toilet

! Before ordering and installing the *Aero*let®, the height of the toilet bowl should be measured.

- The *Aero*let® can be adjusted for height toilet with installation of **K** adaptors.
- Carefully turn the lift backwards so that frame **R** is off the ground. Use for instance a few wooden blocks.
- Unscrew the four existing bolts **J**.
- Remove cover **C** off of the floor frame **A** by seperating the Velcro®.
- Install the **K** adaptors between the floor frame and drive units and insert the four mounting bolts **J** into the adaptors (see detail).
- Slide cover **C** over floor frame **R** and fasten the Velcro®.
- Turn the lift upright and install it over the toilet bowl following the installation procedure in this manual.

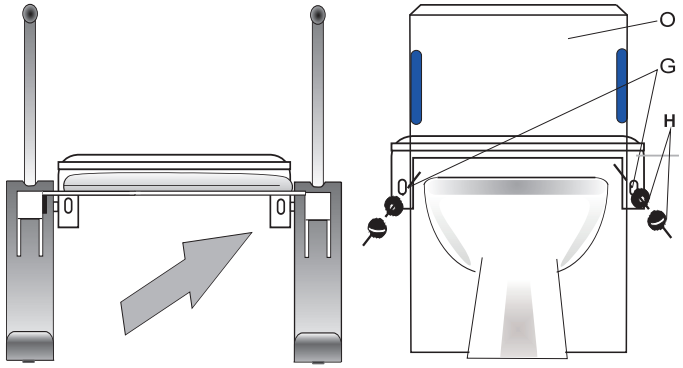
①

*Remove the toilet seat

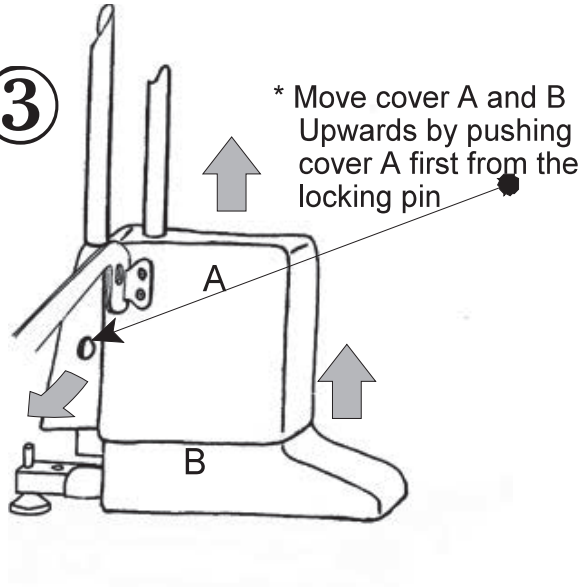


* Remove the bolts from the cover

②

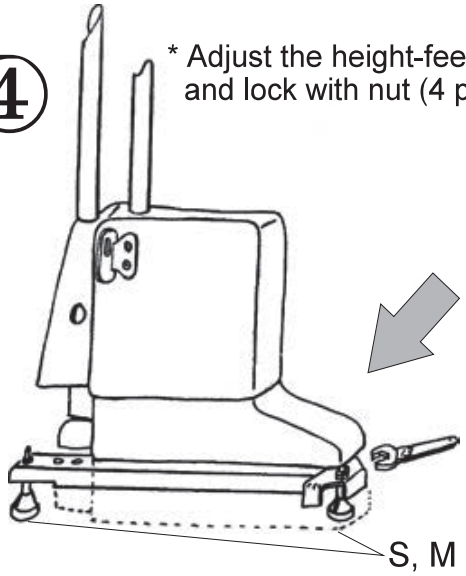


③



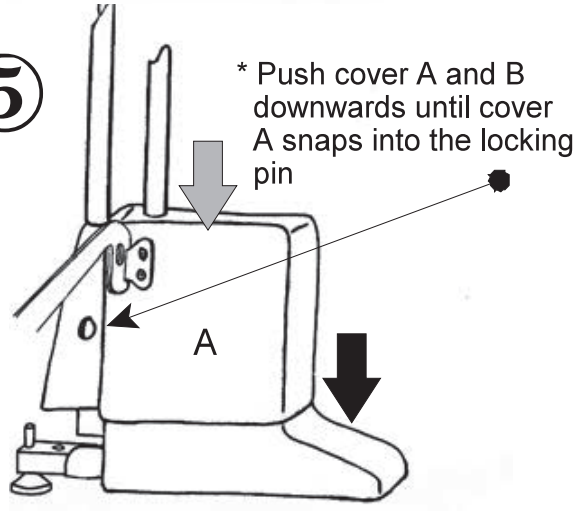
* Move cover A and B Upwards by pushing cover A first from the locking pin

④



* Adjust the height-feet_ and lock with nut (4 pc)

⑤



* Push cover A and B downwards until cover A snaps into the locking pin

⑥



* The toiletlift is ready for use.

Installation of the *Aero*let Tilting or *Aero*let Vertical on a Closomat

Samao- or Rio model

WARNING

- **As the *Aero*let® is installed to the toilet bowl, this bowl form part of the system. Be sure that the bowl is well fixed to the floor/wall.**

- Remove the seat with the mounting bolts (pict. 1)

- Install the lift over the toilet bowl (pict. 2)
- Fasten the strips **G** with bolts and ring **H** to the toiletframe.
- If necessary, turn the screws **S** so that the strip-holes **G** will correspond to the frame-holes.
- Plug the *Aero*let® into the GFCI and see if the lift is operational.



! **Check** the toilet seat bottom when it is in lowest position. It should touch the front supports of the frame-seat.

- If necessary, turn the front screw(s) **S** to level (pict. 4).

WARNING

! **Check** to see that by turning all the screws **S** a minimum of 25mm distance arises between the toilet bowl edge and the frame-seat.

- Turn nuts **M** and **S** again**.**
- Install the covers of the *Aero*let® .
- Adjust the toilet seat **without** seat-cover of the Closomat onto *Aero*let® frame-seat. (Fig.1)

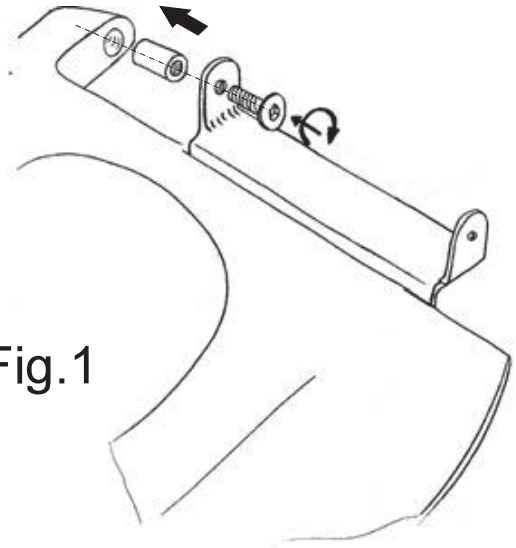


Fig.1

Installation of the *Aero*let Tilting or *Aero*let Vertical on a Palma



Remove seat and pillars complete and place to one side.

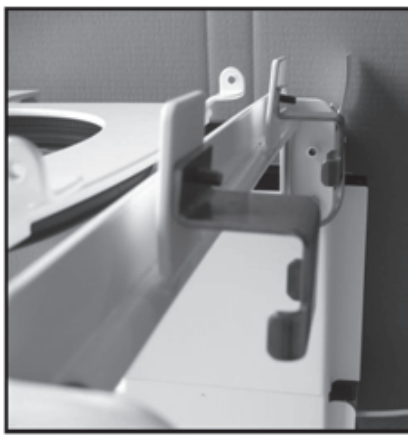


Remove the top cover.

Remove the central cap and retaining screw Pull the cover forward until it exposes the cistern, then lift away.

Fit the two supplied stainless steel replacement seat pin.

Make sure they are firmly seated, so that they depress evenly.



Picture showing location of anchor plates in relation to the Aerolet frame.



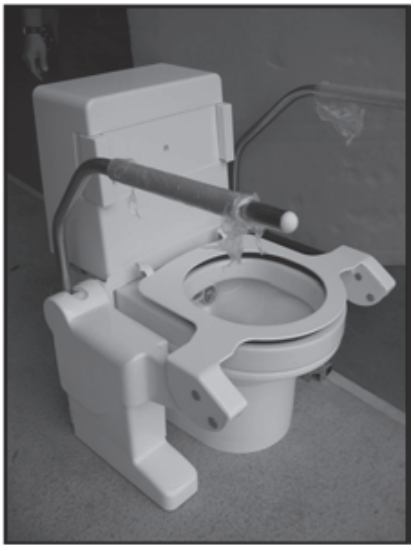
Position both anchor plates into C-section frame behind porcelain pan.



Position the Aerolet over the Palma and adjust the feet accordingly.

Make sure the cross bar from each Aerolet leg is sat firmly on the porcelain and level.

Caution must be taken to not trap any wires.



Replace the cover ensuring that it slots in-between the anchor plates and the flat up-stand.

Re-screw the cover and replace the cap.

Adjustthe height of the arms to client's requirements.

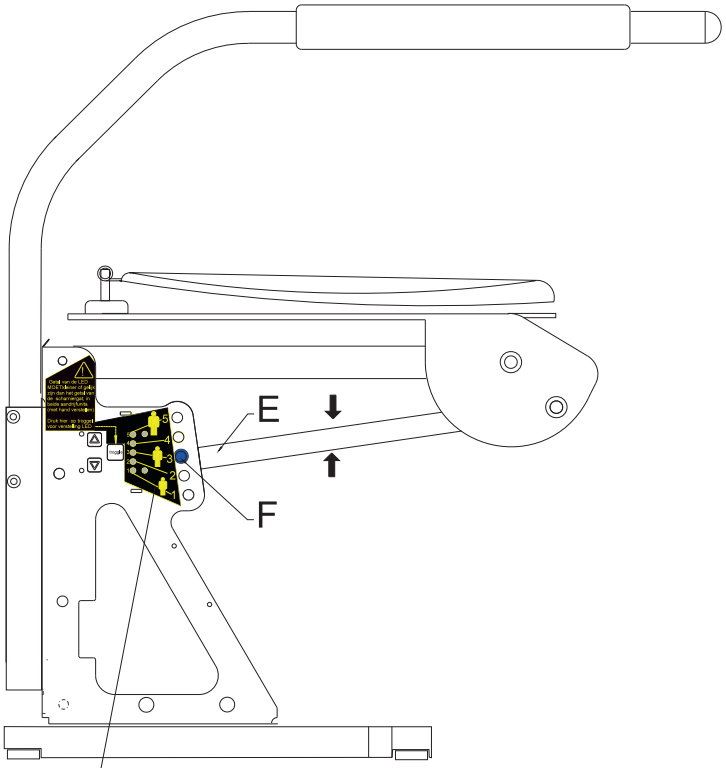

E
F

Fig. 1 E

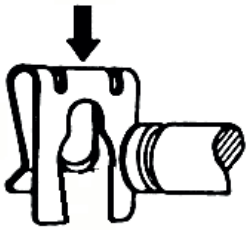
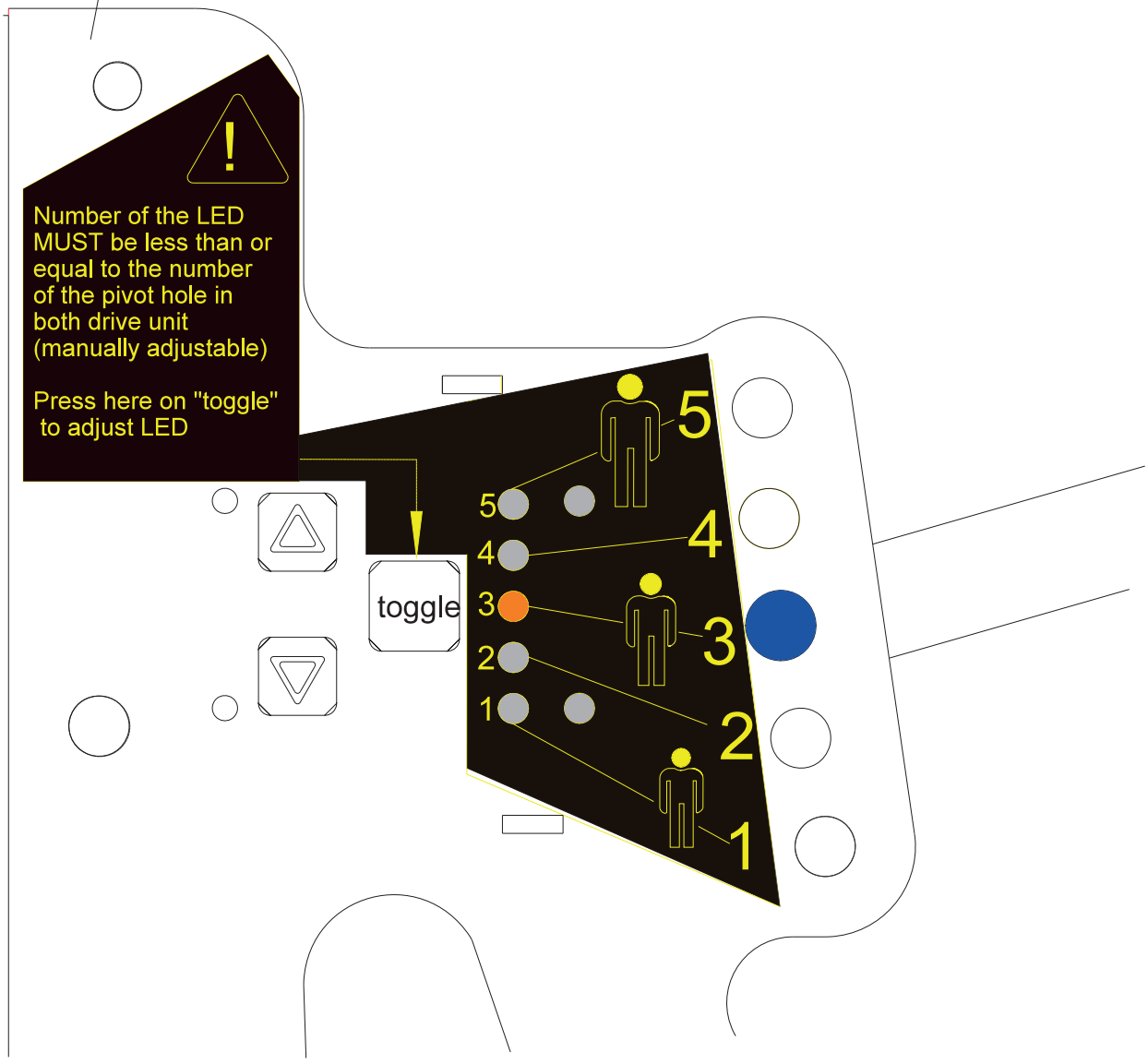


Fig.2


Number of the LED MUST be less than or equal to the number of the pivot hole in both drive unit (manually adjustable)
Press here on "toggle" to adjust LED
toggle
5
4
3
2
1

Setting the rise of the *Aero*let

⚠ WARNING

- **Lift setting should only be changed by a certified professional. Please do not attempt to change the settings yourself.**

! Height adjustments can **ONLY** be made when the toilet seat is in its lowest position.

- Remove covers **A** and **B** **(**see page14-15).
- Release the locking spring **E** on both sides by pushing it upwards and to the side (fig.1 - page 22).
- Pull out the hinge pin **F** on both sides.
- The traction bar can now be adjusted in the correct hinge hole and LED position.

⚠ WARNING

- **The height adjustment must be made in the same hinge hole position on each side of the lift.**

- Fig. 2 is an exemple of an adjustment: LED on 3 and hinge on 3 position (please also watch the text of Fig. 2 on the lift).

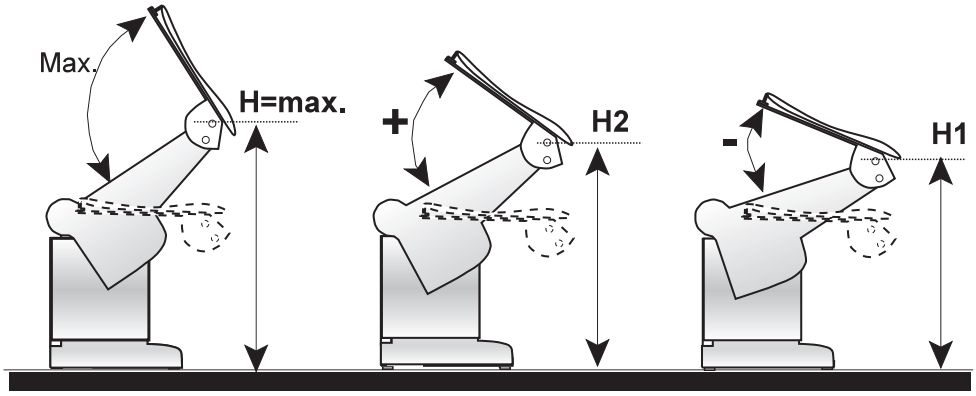
! The LED position may adjust in a lower position i.e. 2 or 1 when hinge = 3. Through this the lift rise will be shortened.

WARNING

- **Never adjust the LED position in a higher figure than the figure of the hinge. Through this the lift will rise too far! At the same time a safety switch comes into force and will move the toilet lift a little downwards.**

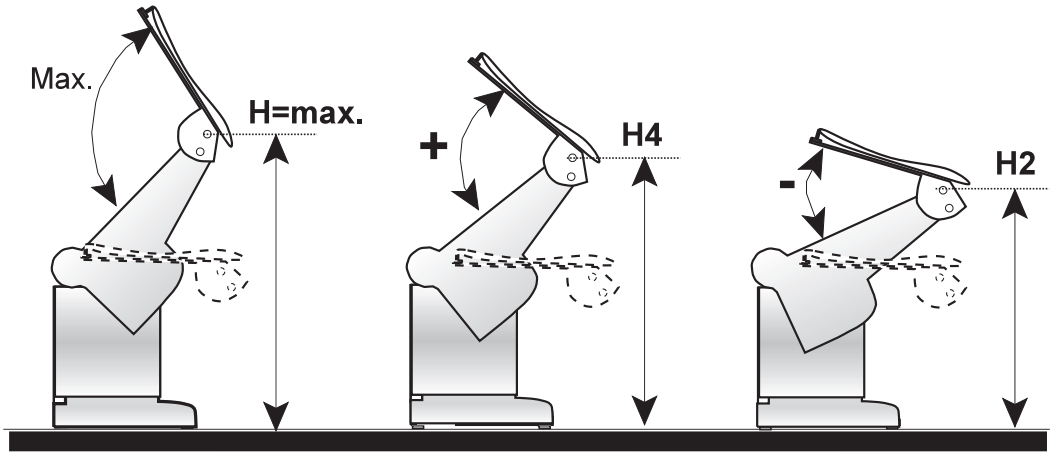
- After checking the rising height, the covers can be re-installed. (see page 14-15)

Examples of height adjustments



Hinge=3 and LED =3 Hinge=3 and LED=2 Hinge=3 and LED=1

Fig. 1



Hinge=5 and LED=5 Hinge=5 and LED=4 Hinge=5 and LED=2

Fig.2

Hinge-number	LED-number
Nr. 1	Nr. 1
Nr. 2	Nr. 2,1
Nr. 3	Nr. 3, 2, 1
Nr. 4	Nr. 4, 3, 2, 1
Nr. 5	Nr. 5, 4, 3, 2, 1

Fig.3

Examples of height adjustments

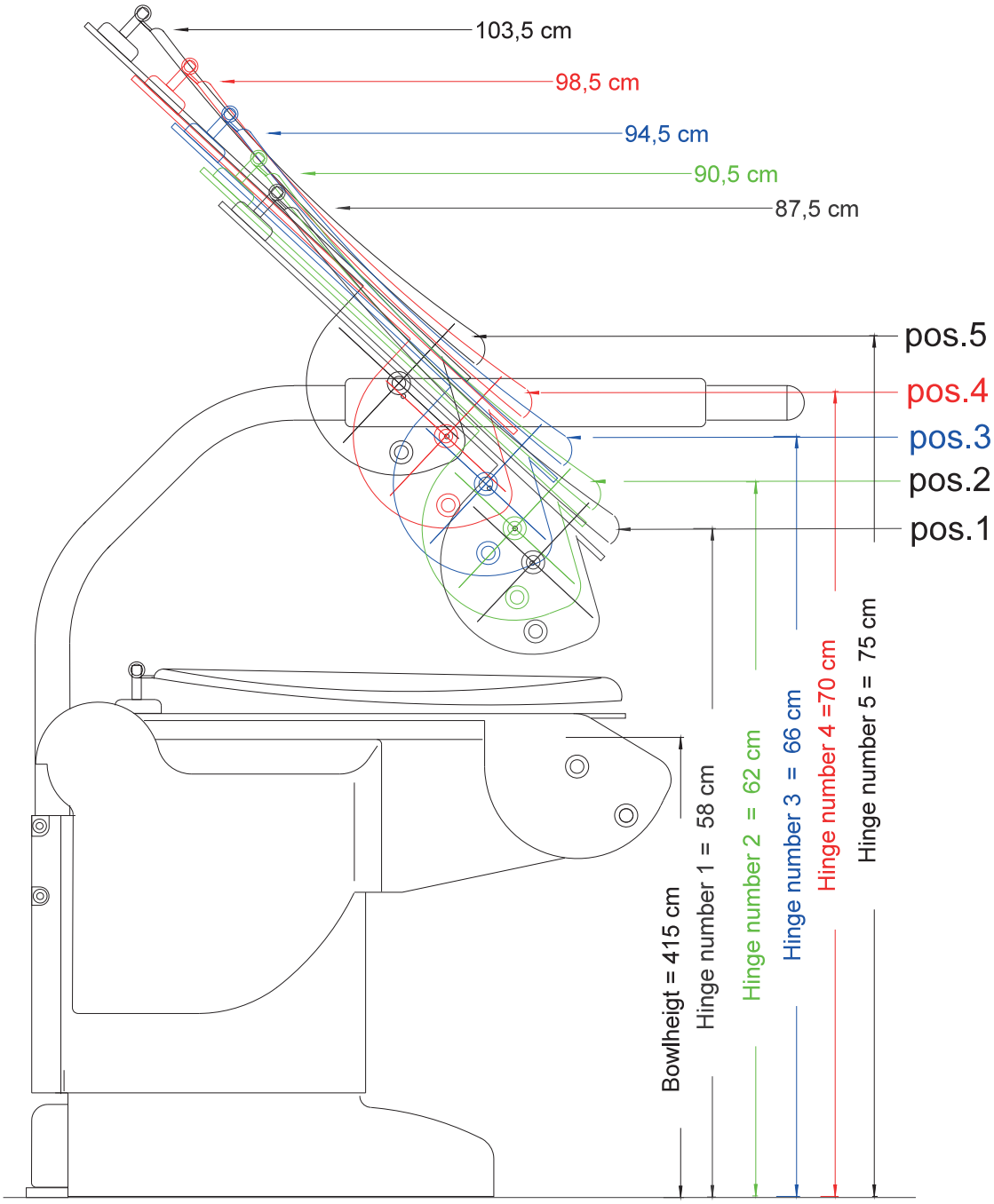


Fig. 4

Fig.1 Gives an example of hinge no. 3 and different LED positions. The height and seat-angle of the seat frame changes.

Fig.2 Gives an example of hinge no. 5 and different LED positions. The seat height is higher than Fig. 1 and the seat-angle stays in the same level.

Fig.3 In this data-view you can see the15 different adjustment possibilities of the hinges and LED's.

Fig.4 Here you can see the maximum seat frame heights when the bowl is 415 cm.

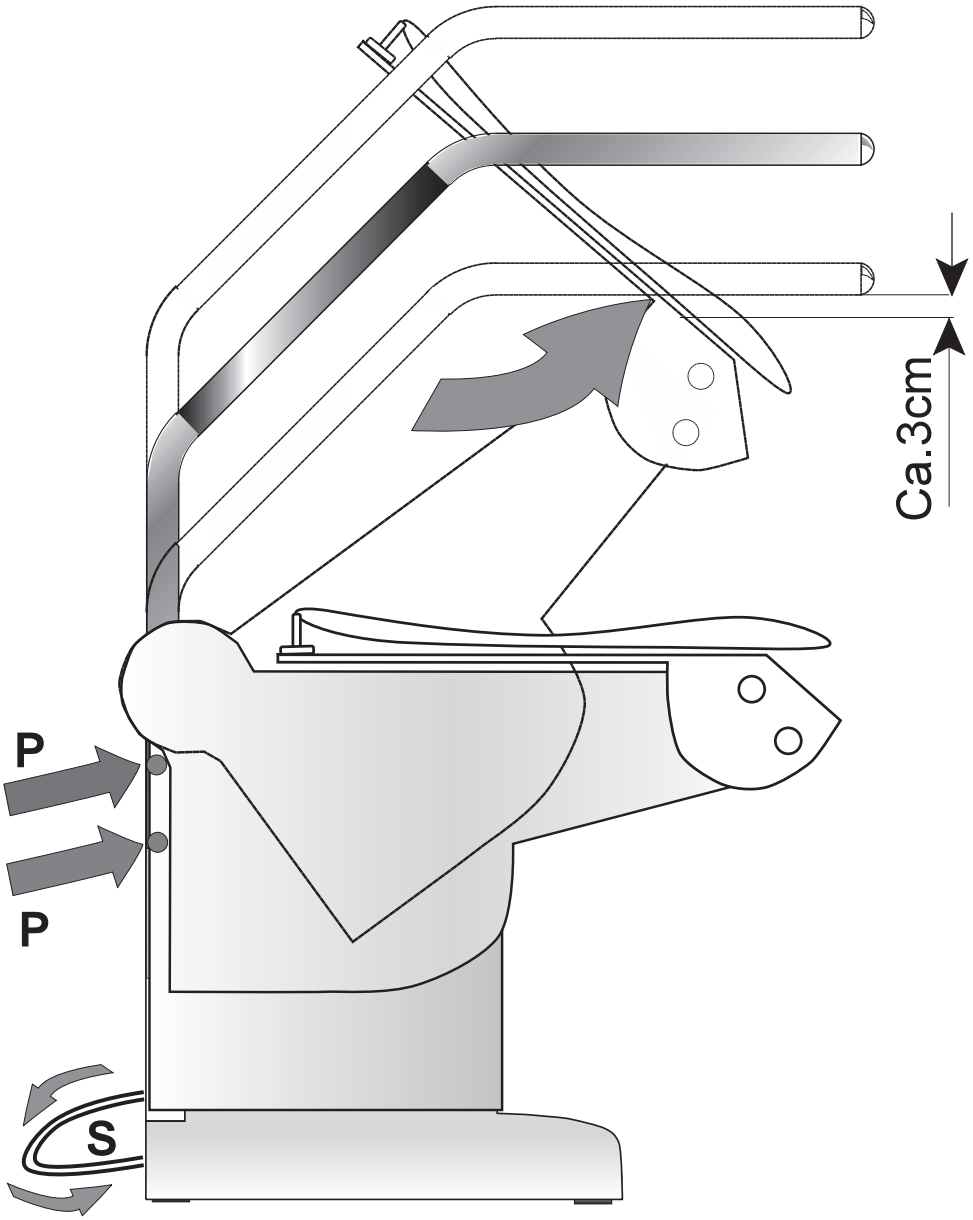
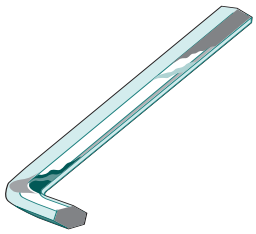


Fig.1



Setting the *Aero*let® arm supports
(only Tilting Lift)

- The arm supports can be only adjusted in height.
  On special request also in width possible.

WARNING

- **Changes to the lift settings should only be made by a certified professional.**
- **Unplug the *Aero*let® before making any changes!**

! Before setting the arm supports, make sure that cord **S** comes out of the lower side of the operational arm support. Also pull the cord out a bit sothat it will not be damaged during adjustments.

WARNING

- Unscrew the two bolts **P** on both sides and adjust the arm supports in height. After the adjustment, tighten the bolts **P** again. Both bolts on each arm support must lock the support into place.

- When the arm support are adjusted in to a lower position, the seat rise settings may bump against the underside of the arm support.



! This can cause damage to the lift!

- This must be adjusted to ensure enough room clear the arm supports.
- A minimum 35 mm space must be allowed between the frame seat and the arm supports. (see fig. 1 - page 26)
- Push cord **S** back into its drive unit.

Troubleshooting

LA = Linear Actuator / CB = Control box

Symptom	Possible Cause	Action
Power indicator does not light up (see pag.6 - no.24)	- Not connected on mains - The fuse has blown - Earth leakage circuit breaker is off - CB is defective	- Connect to mains - Replace fuse, if the systems is prepared for external fuse replacement - Switch on the breaker - Replace the CB and send or repair
Power indicator lights up but actuator does not run. Relays in controlbox are heard clicking.	- Actuator plug not pushed into the CB properly - LA defective - CB defective	- Push actuator plug into CB properly - Replace LA - Replace CB
Power indicator lights up but actuator does not run. No relay noise is heard from the contol box.	- CB defective - Handset defective	- Send CB for repair - Send handset for repair
No motor sound or movement of piston rod	- The actuator is not connected to the control box - Blown fuse in the control box - Cable damaged	- Connect the actuator to the control box - Fuse must be changed - Send actuator for repair
Motor runs but spindle does not move	- Gear wheel or spindle damaged	- Send actuator for repair

Symptom	Possible Cause	Action
Actuator cannot lift full load	- Clutch is worn - Motor is damaged	- Send actuator for repair
Motor sound but no movement of piston rod		- Send actuator for repair
Piston rod will only move inwards and not outwards	- Safety nut has operated	- Send actuator for repair
Toilet lift is tilting to one side	- Very unequally loaded - One side of the lift stopped	- Keep pushing (pulsated) the down button,until the lift stands horizontal (see pag.30 - fig. 6)
Tilting lift (vertical) sounds loud during up- and down motion	- Guiding rods are dirty or greasy	- Keep the guiding rods clean from dirt and grease (see pag.30- fig. 5)

Warning

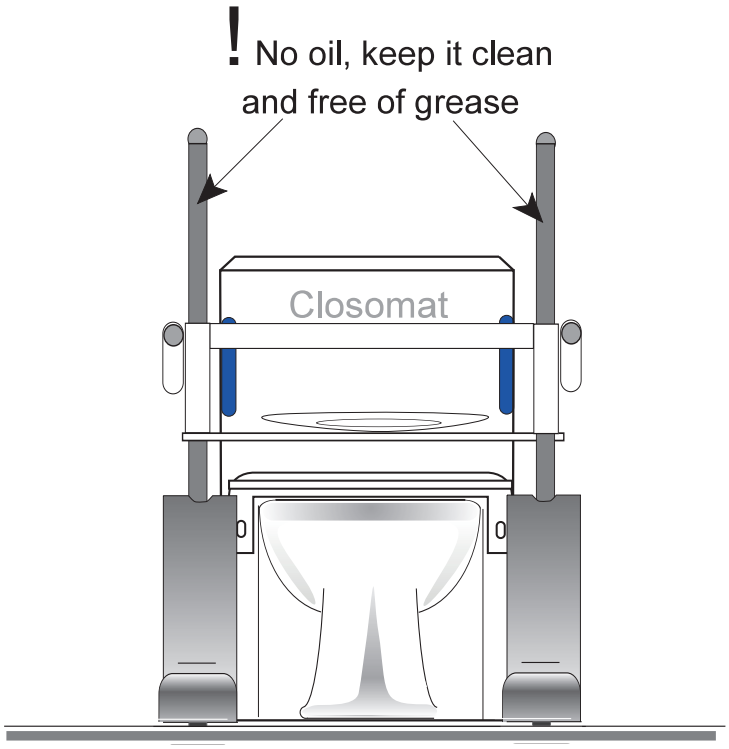


Fig. 5

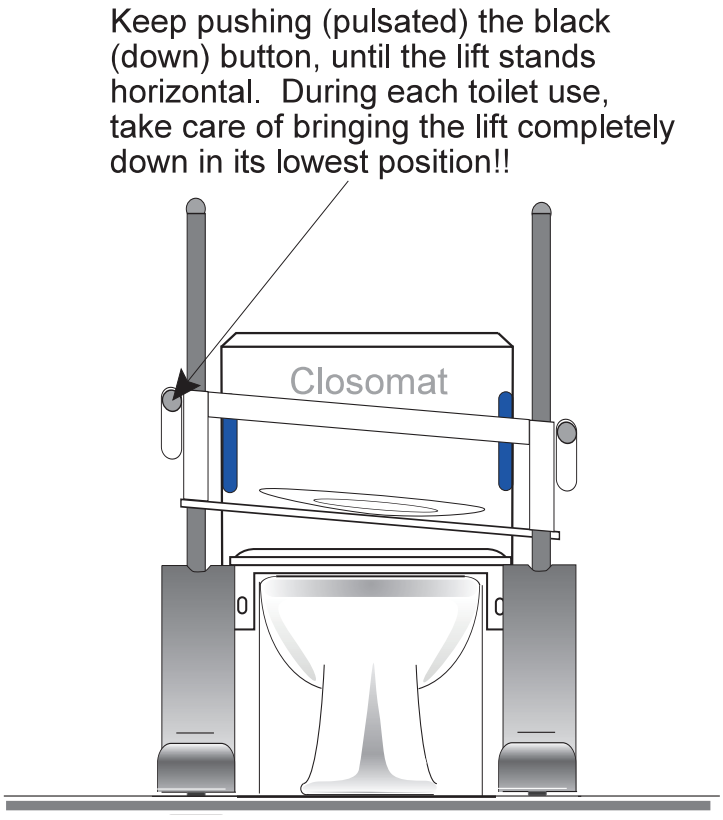


Fig. 6

Notes:

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Economic Holland reserve the right to technical alterations !

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British manufacturing

British design and development

British customer support

We reserve the right to make modifications as a result of ongoing adjustments and further development. This factor, and the variety of equipment options available, may result in descriptions not corresponding to the current equipment version in all details.

CLOSOMAT® has been the protected trademark of the world's first wash and dry (shower) toilet since 1957.

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