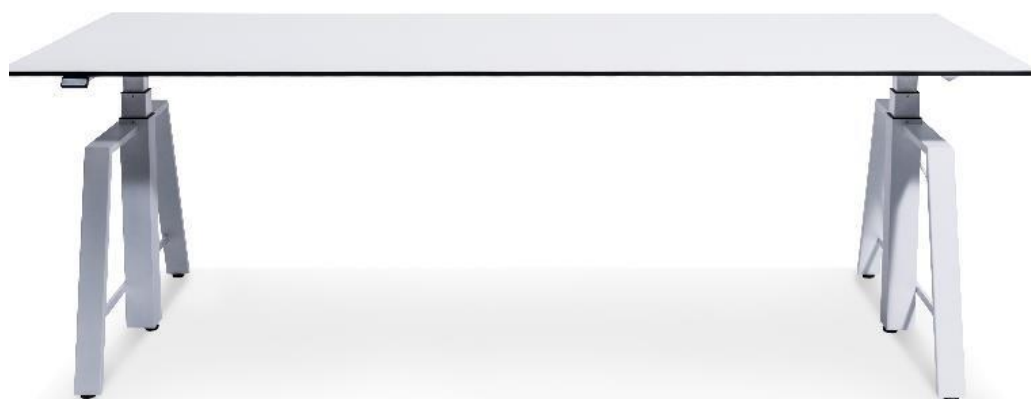


## Operation Manual

# Table A / Table A-Plus

*electric*



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Dear customer,

We are pleased that you have chosen our motu table. These operating instructions explain how this sit-stand table is put into operation, used, serviced and cared for.

All sit-stand tables are subjected to a function and quality test before they leave our factory. Should you still have problems with your table frame, you can contact our service department at any time. Changes to the table frame or improper use can affect the safety, function and service life! These operating instructions are intended for the sit-stand tables of the motu furniture series A-Plus conference table with electrical height adjustment. Due to different designs / types, images may differ.

Karl Westermann GmbH + Co. KG

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## INTENDED USE



This sit-stand table may only be used as a temporary workstation in the professional sector. Modifications to the table frames are not permitted. This sit-stand table must be assembled, commissioned and functionally checked by competent personnel.



The use of this sit-stand table for any purpose other than the aforementioned, e.g. as a lifting platform, seating, etc., is not permitted.

## TARGET GROUP AND PRIOR KNOWLEDGE

The following knowledge is required for commissioning the sit-stand tables:



- Basic mechanical and electrotechnical knowledge (appropriate training)
- Reading the operating instructions

## SYMBOLS USED SAFETY INFORMATION



Danger: This safety symbol indicates a dangerous threat to the life and health of persons! Failure to observe these instructions may result in life-threatening injuries and/or damage to property.



Attention: This safety symbol indicates possible dangers due to electric current! Failure to observe these instructions may result in injury and damage to property!



Information: This safety symbol refers to important information that must be observed for the safe operation of the sit-stand table.



Danger: This safety symbol indicates the threat of a crushing hazard, deemed possible in exceptional circumstances. Failure to observe these instructions may result in harmful outcomes including, life-threatening injuries and damage to property.



Note: Reference to the obligation to read the operating instructions!



Note: The mains plug must be disconnected before the next activity!

## SAFETY INSTRUCTIONS

These operating guidelines contain safety instructions which draw your attention to possible dangers; thus, enabling the safe operation of the sit-stand table. Please be sure to observe these essential safety instructions!

In this section you will find general safety instructions that do not refer to any specific work step. The activity-specific safety instructions can be found in the respective section of the assembly and operating instructions. Further safety instructions can be found directly on the individual parts of the sit-stand table.

## GENERAL SAFETY INSTRUCTIONS



Note: It is essential to read and observe the operating instructions before assembling/activating the sit-stand table!



Anyone who assembles, uses, maintains or cares for this sit-stand table must have access to these operating instructions.



Attention: The permissible load on the table top is max. 65 kg!



Attention: Do not open the motor control unit under any circumstances! There is a risk of electric shock.



Danger: The sit-stand table can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge – if they have been given supervision or instruction concerning to use the sit-stand table in a safe way and understand and appreciate the hazards involved.



Danger: Children must not play with the device!



Danger: Cleaning and user maintenance must not be carried out by children without supervision.



Attention: Only use original accessories from Karl Westermann GmbH + Co. KG. The use of parts and components from third parties is prohibited! The use of unsuitable accessories may result in damage to or destruction of the table frame.



Attention: If the power supply cable of this appliance is damaged, it must be replaced by the manufacturer or its after-sales service or a similarly qualified person in order to avoid hazards.



Danger: There is a danger of crushing when changing the position of the table top! Therefore, make sure that there are no objects or persons in the danger zone and that no one reaches into the danger zone!



Danger: All moving parts of the table frame must have the required safety distance of min. 25 mm to adjacent structures.



Attention: Modifications to the components of the table frame, including the motor control and the manual switches, are prohibited!



Attention: In the event of a malfunction (e.g. unintentional movement of the table top, e.g. if a button on the hand control gets stuck), please disconnect the mains plug immediately!



Danger: Protect the table frame and especially all electrical components on the table frame from moisture, dripping and splashing water!



Danger: In the event of a fault, the table top may move a little with each time you try to move it away. Be aware of a possible crushing hazard.



Attention: If the product is visibly damaged, makes unusual noises or produces an odour, it must not be further assembled or used!



Attention: never place the table on one side and never drop it. Damage may occur to the side panels and the motor.



Danger: The electric motor-driven sit-stand table must not be operated in an explosive atmosphere!

## BEFORE INSTALLATION, UNINSTALLING OR TROUBLESHOOTING



- Stop the sit-stand table.

**Note:** Switch off the power supply and unplug the mains cable

- Relieve the sit-stand table of any weight.
- Accessing or replacing the electrical systems may only be carried out by qualified electricians.
- The table must not be operated in damp rooms, e.g. such as bathrooms.
- The table must not be used in potentially explosive atmospheres.

## SET UP AND FURNISH

For a faultless function of the table, the place of installation must fulfil the following conditions:

- Sufficient load-bearing capacity of the bottom
- Level footprint
- Relative humidity 5% - 80% (non-condensing)



- No objects or persons in the lifting / travel range of the table, see below.
- 25mm safety distance to all surrounding objects (e.g. adjacent table, wall).
- Sufficient cable length for any electrical devices on the table.

When setting up, please note.



- Uneven floors can be compensated for by means of the height adjusters on each foot.

## BEFORE OPERATING

- Check that the operating voltage of the table corresponds to the local power supply. (see type plate on the control unit, standard = 230V).
- If necessary, make the plug connections from the hand control and the lifting column to the control.
- Connect the mains cable of the control unit.
- When commissioning, the control of the table must be initialised, p. 16.

## DURING OPERATION



- If the drives or the control unit cause unusual noises or smells during operation, disconnect the power supply.



- Make sure that the cables are not damaged.
- When operating the sit-stand table, make sure that no objects or body parts can be trapped.
- All moving parts of the table frame must have a distance of min. 25 mm to adjacent components.
- Ensure that there is sufficient cable length for any electrical equipment on the table.
- Attention: Danger of collision and crushing: Make sure that there are no objects in the travel range of the table, i.e. no objects under the table (e.g. roll container, waste paper basket) or above the table (shelf, open window sash) with which the table could collide during height adjustment.

The table moves downwards up to 720mm (upper edge of table top, corresponds to approx. 570mm clear height) and stops here ("container stop"). The table moves upwards to a height of approx. 1290mm (top edge of table top).

If these settings do not suit your circumstances, you can deactivate or stop the if these settings do not suit your circumstances, you can deactivate or change the "container stop" up to a minimum height of 640mm (top edge of table top, corresponds to approx. 570mm clear height). Furthermore, an additional "shelf stop" can be programmed in.

You can find a description of both on p. 17.



- When commissioning or if the table has been disconnected from the power supply for a long time, if there has been a malfunction at the table or if the connection between the drive and the control unit has been disconnected - the control unit of the table must be initialised, see p. 16.

## IMPORTANT SERVICE NOTE



Danger: Only use original accessories! These may only be fitted by expert service personnel! Otherwise you will lose your warranty and guarantee claims.



Danger: In the event of a malfunction, please contact your customer service immediately!

Only original spare parts are permitted for repairing the sit-stand table. These may only be replaced by expert service personnel! Otherwise you will lose your warranty and guarantee claims.

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## REPAIRS

In case of a technical defect on this unit, please contact a customer service authorised by us. The solution for simple possible error cases can be found in the section Error messages!



Attention: To avoid malfunctions, all repairs must be carried out by authorised service personnel only.



Attention: If components of this table frame are opened, there is a risk of subsequent malfunctions.

## WARRENTY

For these sit-stand tables we give a warranty for a period of 24 months. The warranty covers all material and production defects. The warranty is only valid on condition that the tables have been used properly and professionally within the parameters described, that maintenance has been carried out correctly and that repairs have only been carried out by authorised service personnel.

The sit-stand table must not be handled or used improperly and no modifications may be made to the table frame, otherwise the warranty will be invalidated.

## MAINTENANCE

Remove dust and dirt from the table frame at regular intervals, especially from the guide tubes, and make sure that there is no damage or cracks.

Check all fastening screws for tightness and all plug connections, cables and plugs, as well as proper functioning.

## CLEANING + CARE INSTRUCTIONS



Danger: The control unit, the manual switch and the table frame, in particular the lifting column, may only be cleaned with a dry or slightly moistened cloth. Danger to persons!



Attention: Aggressive cleaning agents may cause damage or colour changes to the product. Therefore, only agents with a pH value of 6-8 may be used.



Danger: No liquid may get into the system (control unit, manual switch, cable and rack). Danger to persons!

### **Powder-coated metal surfaces**

Clean powder-coated metal parts with soft, lint-free cloths and water (with the exception of the lifting column, which must only be cleaned dry, see above). Please always clean metal surfaces carefully, without scrubbing, to avoid scratches.



#### Special instructions:

Please do not place sharp-edged objects or objects with abrasive surfaces on the finished surface to avoid unwanted scratches.

#### **Melamine resin-coated surfaces / HPL compact board**

Plastic-coated surfaces consist of resin-impregnated decorative papers and are characterised by very high wear resistance. Although liquids cannot penetrate the material, soiling or stains must be wiped away immediately. Simply clean the surface with warm water and then dry it with a paper or soft cloth. If soiling cannot be removed with this, use mild, commercially available cleaning agents that have no abrasive ingredients. Depending on the degree of soiling, it is advisable to allow the cleaning agent to act accordingly. Then rinse with water and dry. Remove all residues of the cleaning agent to prevent streaking. Wipe the surface dry with a clean, absorbent cloth or paper towel. The above procedure can be improved using a cleaning sponge or nylon brush.

#### **Lacquered wood surfaces / OSB**

Lacquering protects the wood surface against contamination with a transparent, hard film. As a result, the wood surface is very well protected against the penetration of impurities. The smooth surface allows easy and simple maintenance. However, any liquids should be immediately wiped dry with an absorbent soft cloth.

To clean the surface, it is best to wipe only with a soft, dry cloth; only, if necessary, with a soft damp cloth and then wiped dry with an absorbent cloth. For stubborn stains, curd soap (or domestic) or a PH neutral cleaner can be used. Please do not use furniture polish or furniture sprays! They can attack the lacquer surfaces or lead to streaking!

#### Special notes:

Furniture made of solid wood are high-quality natural products. They react to their environment: the colour of the wood may change slightly when exposed to light. Excessive fluctuations in ambient temperature and humidity should be avoided if possible, as it can lead to cracking and warping. Please do not place sharp-edged, abrasive or very heavy objects with a small footprint on the wooden top; this could cause unwanted scratches or indentations.

#### **Linoleum surfaces**

Loose dirt can be removed by dusting cloths or vacuuming. To remove adhering dirt, use a suitable cleaning agent (neutral cleaner or a special cleaner for linoleum with pH <9, e.g. "HARell") diluted in water according to the manufacturer's instructions. Soak a soft cloth with cleaning solution and wring out well. Wipe the linoleum surface clean with it. In the case of stubborn dirt and stains, apply the undiluted cleaning agent to a soft cloth and clean the dirt with it, if necessary use a white cleaning pad. Take up the loosened dirt with a clean, absorbent cloth and then wipe the surface with a damp cloth moistened with clear water. To care for and freshen up dull surfaces: after thorough cleaning, apply a care emulsion for linoleum (e.g. from "HARell") to a lint-free cloth and spread it very thinly over the linoleum surface with the cloth in circular movements. After drying, the surface should be polished with a soft cloth or a soft polishing pad.

### Special notes:

Particularly in the post-oxidation phase, a "yellow cast" develops on linoleum. This is particularly noticeable in light colours, but disappears completely when exposed to UV light, and the linoleum reverts to its original colour. On the other hand, this "yellow cast" reappears if, for example, the surface of the covering is covered with monitors, mouse pads, etc. for an extended period of time, but disappears; as described above, as soon as the covering is exposed to daylight again. This "yellow cast" cannot be removed by cleaning. Flowerpots and tubs, etc., made of terracotta, or clay, can leave discolourations on linoleum, please use suitable coasters. Hand and equipment disinfectants may cause staining due to their high solvent content, please use only surface disinfectants suitable for linoleum; whenever, the linoleum surface needs to be disinfected. Carrying out a test is advisable beforehand on a sample piece; or a non-visible area.

## ASSEMBLY

To assemble your table frame, use only the screws supplied in accordance with the enclosed assembly drawing.



**Danger:** During assembly of the table frame, the mains cable of the motor control unit must be disconnected from the mains!

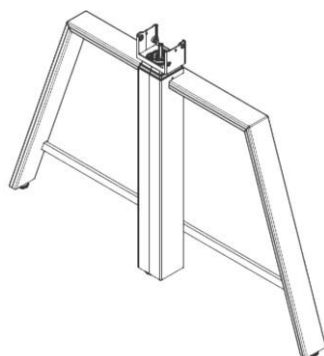


**Attention:** Before assembling and commissioning the sit-stand table, ensure that the product is acclimatised to the temperature and humidity values specified in the technical data for operation!

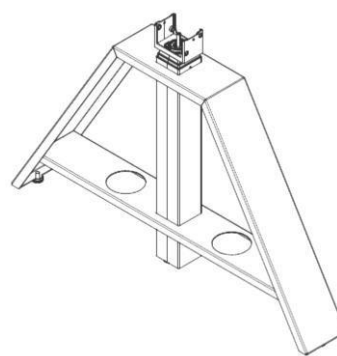
### 1) Assembly of the foot stabilisers

#### Steel base A/A-Plus

The steel version of the table leg A or A-Plus is already fully assembled. No further work step is necessary here.



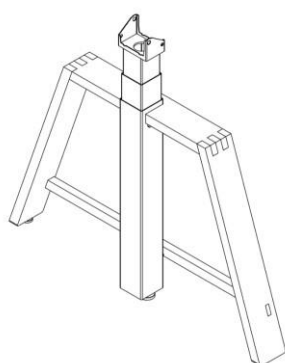
Foot A in steel



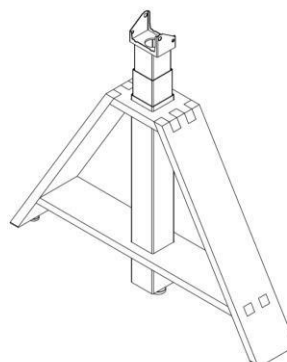
Foot A-Plus in steel

### Wooden foot A/A-Plus

The version of the table base A or A-Plus with attached wooden base is already fully assembled. No further work step is necessary here.



Foot A in wood

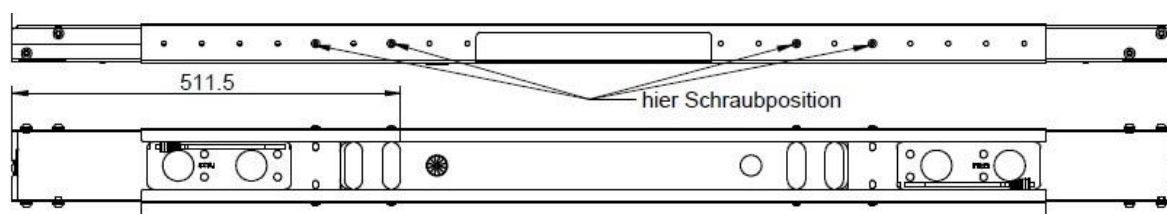


Foot A-Plus in wood

## 2) Wiring the truss

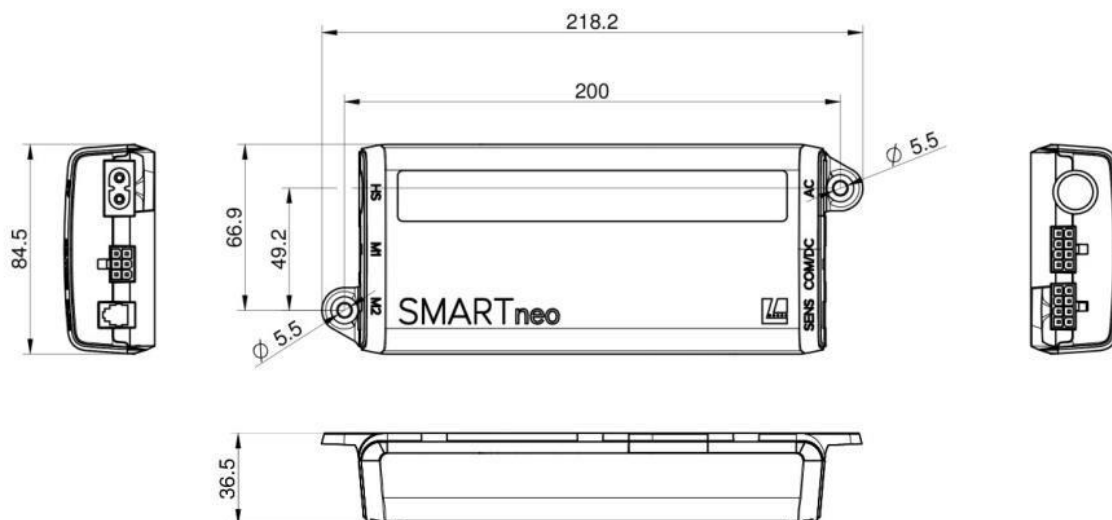
To wire the sit-stand table, proceed as follows:

### 1) Adjusting the crossbar length



As a rule, we already adjust the length during production. However, if it is necessary to change the length, please proceed as follows: Loosen the screws at the positions marked in the picture and move the parts of the telescopic crossbar symmetrically to the length of the table top. Then fasten the screws again.

## 2) Connections to the motor control unit



### Anschlüsse / Buchsen

HS = DIN Handschalterbuchse

AC = C8 2-polig für Netzstromversorgung

M1 = Minifit 8-polig für Motorantrieb 1

COM/DC = Minifit 6-polig für Kaskadierung

M2 = Minifit 8-polig für Motorantrieb 2

SENS = RJ10 für DMS Sensor



Attention: Do not plug in the power supply cable/mains cable until all other electrical connections have been made! (All motors, the hand control and possibly other accessories are connected to the control).

To put the sit-stand table into operation, proceed as follows:

### 2) Connect drives

Make sure that the connection cables of the drives reach from both sides to the corresponding connection of the control unit. For angle combinations or extremely long tables, off-centre mounting of the control may be necessary. For particularly large table frames, an extension cable may be required for the connection cable of the drives.

Establish the connection between the drives of the side sections and the control unit by means of the motor cables. The plug connections on the 8-pin motor sockets must engage firmly! For controls with more connections for drives than there are drives, you must start with the connection (M1). (Excess connections may remain free).



Note: When connecting the motor cables, it is imperative that you keep to the sequence M1, M2, M3!

### 3) Connecting the handset

Make the connection from the handset to the 7-pin handset socket (HS) on the control unit.

#### 4) Connecting the power supply cable / mains cable



Attention: Before connecting the power supply cable, check again that the mains voltage corresponds to the type plate of your control unit and that all components are connected to the correct sockets.

The motor control unit is ready for operation when the power supply cable is plugged in!



Note: When connecting the power supply cable/mains cable for the first time, it is necessary to initialise the table frame (RESET), this is described in section Initialisation/reset.



Attention: Only use the mains cable supplied! The motor control unit requires a 2-pole mains cable with protective earth.



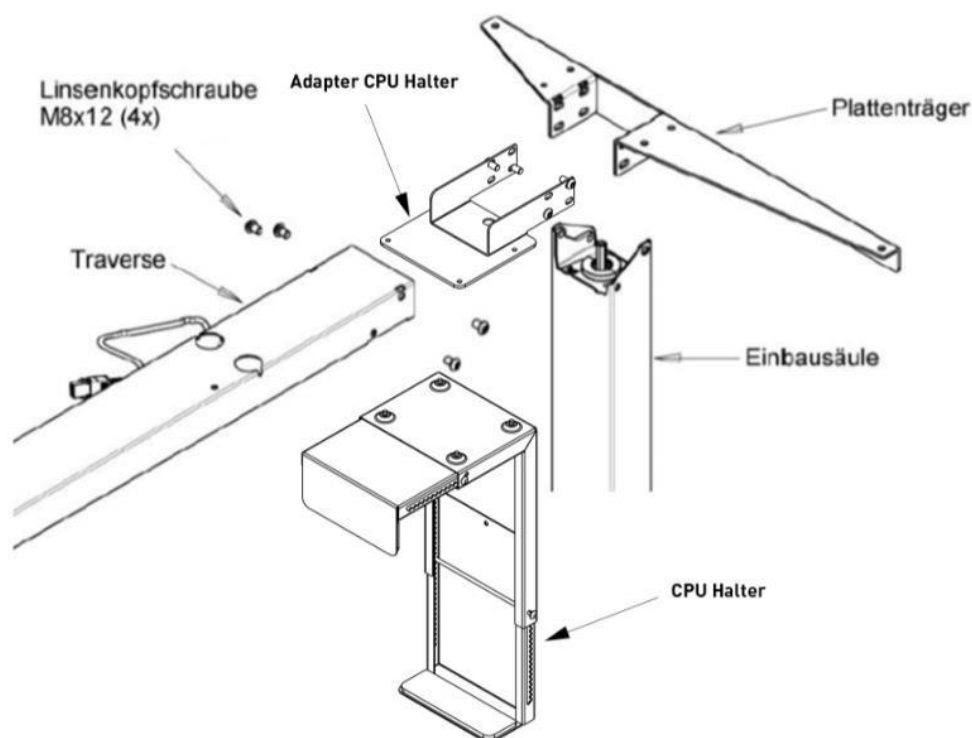
Caution: Secure all cables to the table frame or table top to prevent damage during operation.

#### 3) Assembly of the crossbar and panel support



First mount the built-in column in the cut-outs provided in the crossbar. The M8 screws are only used when mounting the panel support.

**Note:** Make sure that the hexagon SW8.8 at the upper end of the mounting column installation column is inserted smoothly into the hexagon of the drive motor pre-mounted in the crossbar. For positioning, the hexagon of the mounting column can be turned clockwise using an open-end spanner SW9. The built-in column is rotationally symmetrical (you can also mount the racks upside down).



Then mount the panel support to the crossbar with the M8 screws according to the frame drawing through the threads in the installation column. The max. tightening torque for these screws is 10 Nm.

Optional CPU holder:

Then mount the plate carrier and CPU holder to the crossbar with the M8 screws through the threads in the built-in column as shown in the frame drawing. The max. tightening torque for these screws is 10 Nm.

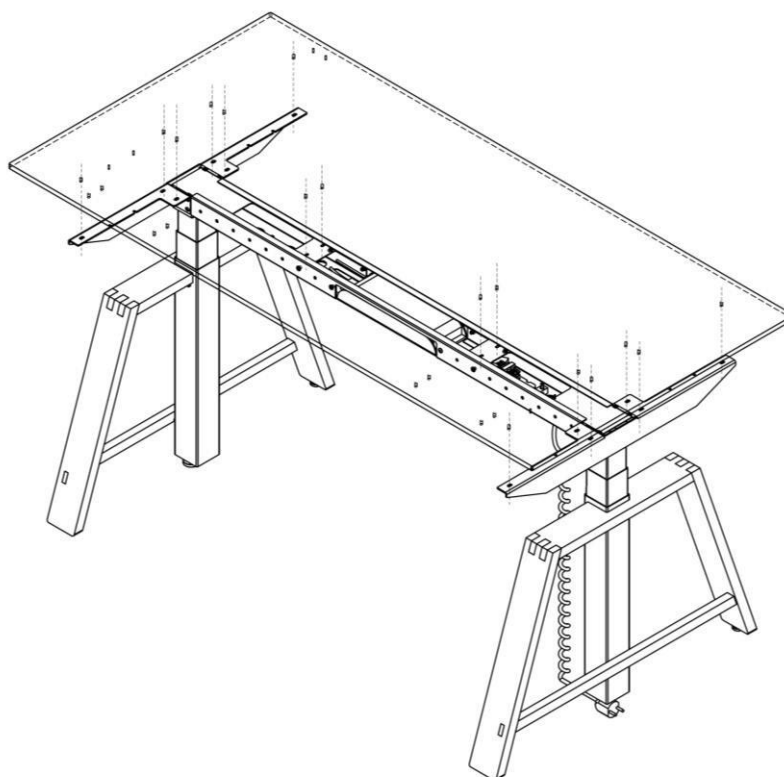
#### 4) Assembly of the table top

Now fasten your table top to the table frame using the fastening material supplied (screws in a labelled bag).

(screws in a labelled bag) to the table frame. It is essential to pay attention to the alignment of the table top (front/rear). The holes for the hand switches are located on the front edge. Holes or screw points are provided for this purpose on the table frame and on the top.

screw points are provided for this purpose. All the screw points provided must be used.

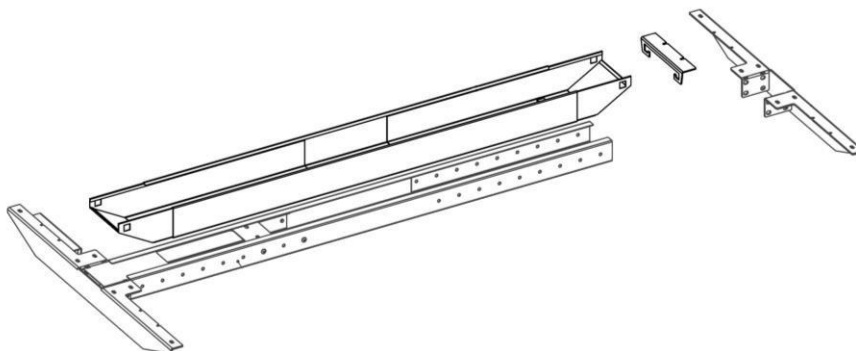
Optional: Attach the absorber forks in the rear area of the table top. Holes are provided in the table top for this purpose.



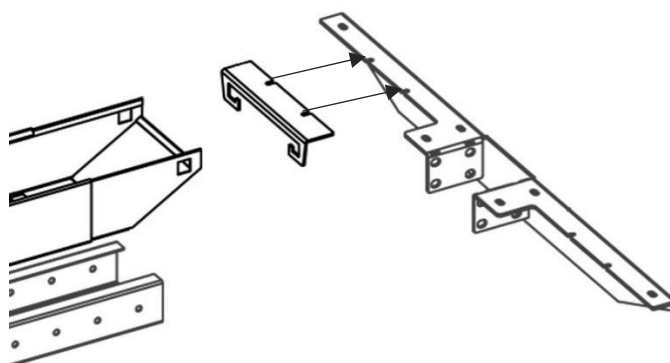
## 5) Assembly of the manual switches

Now mount the handset on the table top using the fixing material supplied (screws in a labelled bag). Holes or screw points are provided for this purpose on the handset and in the top. Stick the cable clip onto the table top and thread the cable in.

## 6) Assembly of the cable tray

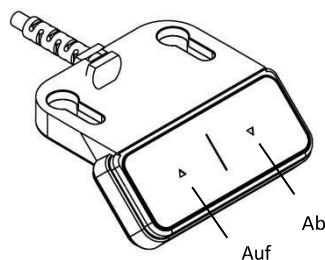


As a rule, we already adjust the length during production. However, if it is necessary to change the length, please proceed as follows: Loosen the wing nuts so that you can move the ends of the cable tray. Adjust the cable tray to the length of the table top and tighten the wing nuts again. Mount the cable tray holders with the plate support and the table top using the supplied fixing material (screws in a labelled bag). Holes or screw points are provided on the table frame and the table top for this purpose. Now hang the cable tray in place.



## OPERATION

Use the Up and Down buttons to move the table up or down in the direction of the arrow; the table stops when the end positions are reached. Keep the button pressed until the desired position is reached.



## INITIALISATION / RESET

After assembly, or if the table has been disconnected from the power supply for a period of time and there has been a malfunction with the table; or if the connection between the drive units and the control unit has been disconnected – the control unit of the table must be initialised.

If the control unit requires a fresh initialisation, only the downward movement of the table, with a reduced speed, is possible.

To initialise, move the table to the lowest position - to do this, keep the down key on the manual switch pressed until all drive units have reached the lowest position. Then press the down key again and keep it pressed (approx. 5 seconds) until the table has made a slight downward and upward movement, do not release the key until the table stops moving. Releasing the button too early will cause the table to malfunction, if this happens accidentally you will need to repeat the process.



Attention: The stop position is pre-programmed in the control unit. For this reason, only controls that have been supplied to fit the respective table frame may be used!



Danger: The optionally available collision protection is not active during all reset processes. Pay attention to a possible danger of crushing.

### 1) Container-Stop and Shelf-Stop-Position

These two functions can be used to limit the travel range of the sit-stand table (if, for example, a container is under the sit-stand table or a shelf is situated above the table). A solitary 'containerstop' position can be set in the lower half of the travel range, a solitary 'shelf-stop' position in the upper half of the travel range. If a 'container-stop' position is set, this is used as the lower end position, a 'shelf-stop' position therefore corresponds to the upper end position of the travel range.

To save a container or shelf stop position, proceed as follows:

- Move the sit-stand table to the position that you want to use as the new container or shelf stop position.
- Now press the Up and Down keys simultaneously for 10 seconds. The control unit confirms the saving process with a double-click sound.



To deactivate a container or shelf stop position, proceed as follows:

- Move the sit-stand table to any position in the lower half of the travel range to deactivate the container stop or to the upper half of the travel range for the shelf stop position.
- Manual switch Up/Down: Now press the Up and Down keys simultaneously for 10 seconds until you hear a click sound, then the function is switched on or off.



Note: These steps must be performed separately for the container stop position and for the shelf stop position!

## TROUBLESHOOTING

Error	Cause	Remedy
Table does not move	The control unit is not connected to the mains power supply	Connect the control unit to the mains power supply
	One or more drives are not properly connected	Plug in the motor cable to the control unit
	There is a poor plug-in connection	Plug in motor cable, mains cable and hand control correctly
	The control unit is defective	Contact the customer service
	The hand control is defective	Contact the customer service
Table moves in one direction only	The power supply was interrupted while the table was in motion.	Reset manually
	The control unit is defective	Contact the customer service
	The hand control is defective	Replace the handset
	The drive is defective	Contact the customer service
Control unit or hand control does not work	The control unit is not connected to the mains power supply	Connect the control unit to the mains power supply
	The handset is not plugged in	Plug in the hand control
	The control unit is defective	Contact the customer service
	The mains cable is defective	Contact the customer service
	The hand control is defective	Replace the hand control
	Poor plug contact	Plug in the motor cable, mains cable and hand control correctly
	The product has been in contact with liquids	Replace the handset

## CLICK CODES OF THE CONTROL UNIT

As soon as power is supplied to the motor control unit, the control unit uses the built-in relays to inform the user acoustically about the system status; and in addition, informs about the reason of the last shutdown.

Click count	When	Status-Information
2x	plugged in to mains	Normal operation: The system works without problems
1x		Emergency operation: The system is in emergency mode, the drives cannot be used. Check the LEDs if present and/or the error code on the display of the manual switch.
3x – 6x		Last shutdown incomplete / forced reset: Check the LEDs if present and/or the error code on the display of the manual switch.

## TECHNICAL DATA

Nominal current consumption	2A
Nominal frequency	50 Hz
Rated voltage	230 V
Nominal power	240 W
Standby	0,3 W
Power-on time	2 Min. AN (120 W) / 18 Min. AUS or 0,5 Min. AN (240 W), 0,5 Min. AN (120 W) / 9 Min. AUS
Lifetime	10.000 Cycles
Environmental conditions in operation	+5 °C to +40 °C at max. 68% relative humidity (non- condensing), up to a height of 2.000 m
Standards and guidelines	RoHS Directive 2011/65/EU REACH Regulation (EG) No. 1907/2006 Eco-Design Guideline 2009/125/EG EMC Directive 2014/30/EU
ESD interference resistance according to EN 61000-6-2	Contact discharge 4 kV Air discharge 8 kV

## TESTS AND CERTIFICATES

The drive system is tested according to:

Electromagnetic Compatibility (EMC Directive 2014/30/EU).

- EN 61000-6-2:2005                      Electromagnetic Compatibility (EMC)
- EN 61000-6-3:2007 + A1              Electromagnetic compatibility (EMC)
- EN 61000-3-2:2006 + A1 + A2      Electromagnetic compatibility (EMC)
- EN 61000-3-3:2008                      Electromagnetic compatibility (EMC)

Electrical safety (Low Voltage Directive 2014/35/EU)

- EN 60335-1:2012                      Safety standard of electrical devices for household and similar purposes

Safety-related parts of control units

- EN ISO 13849-1:2008                      Safety standard of machinery  
Safety-related parts of control systems  
Performance level "b"

Please keep this instruction manual for future reference.

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## CONTACT

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**wp** westermann  
products

