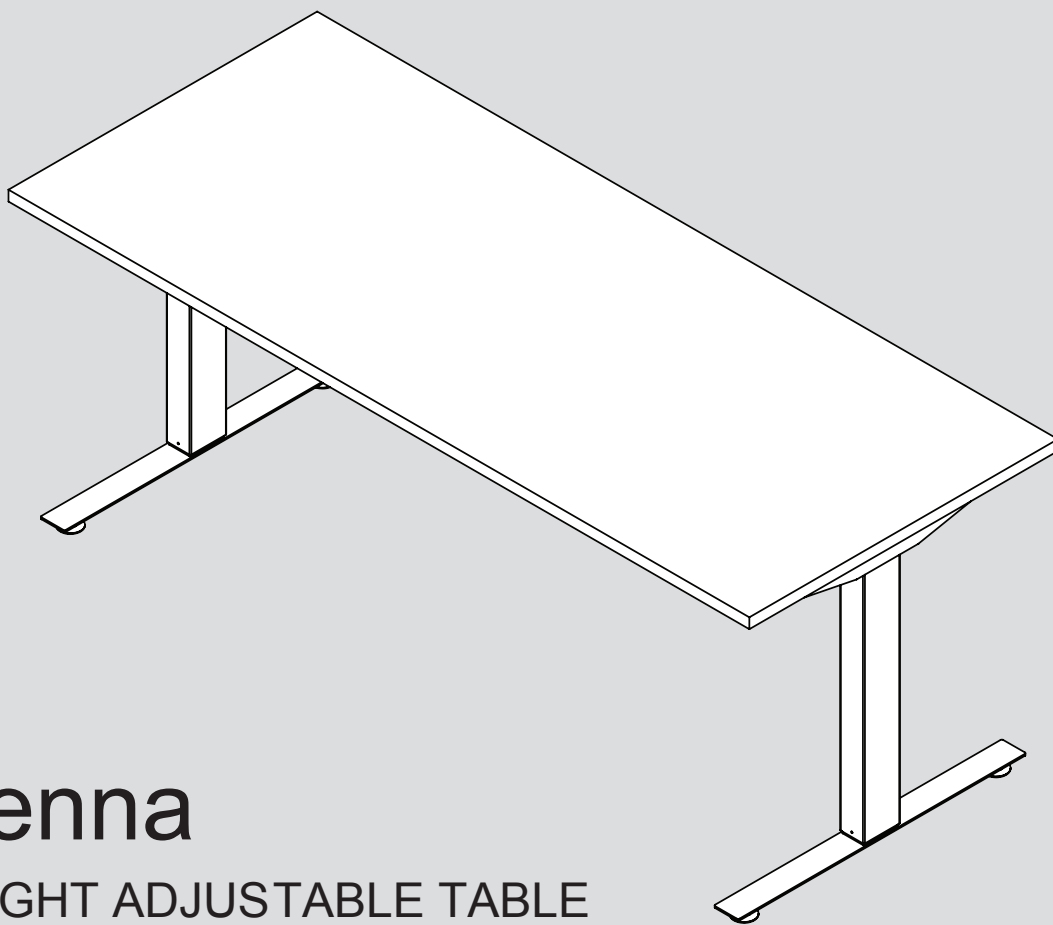


SYMPHONY®



Kenna

HEIGHT ADJUSTABLE TABLE

USER GUIDE

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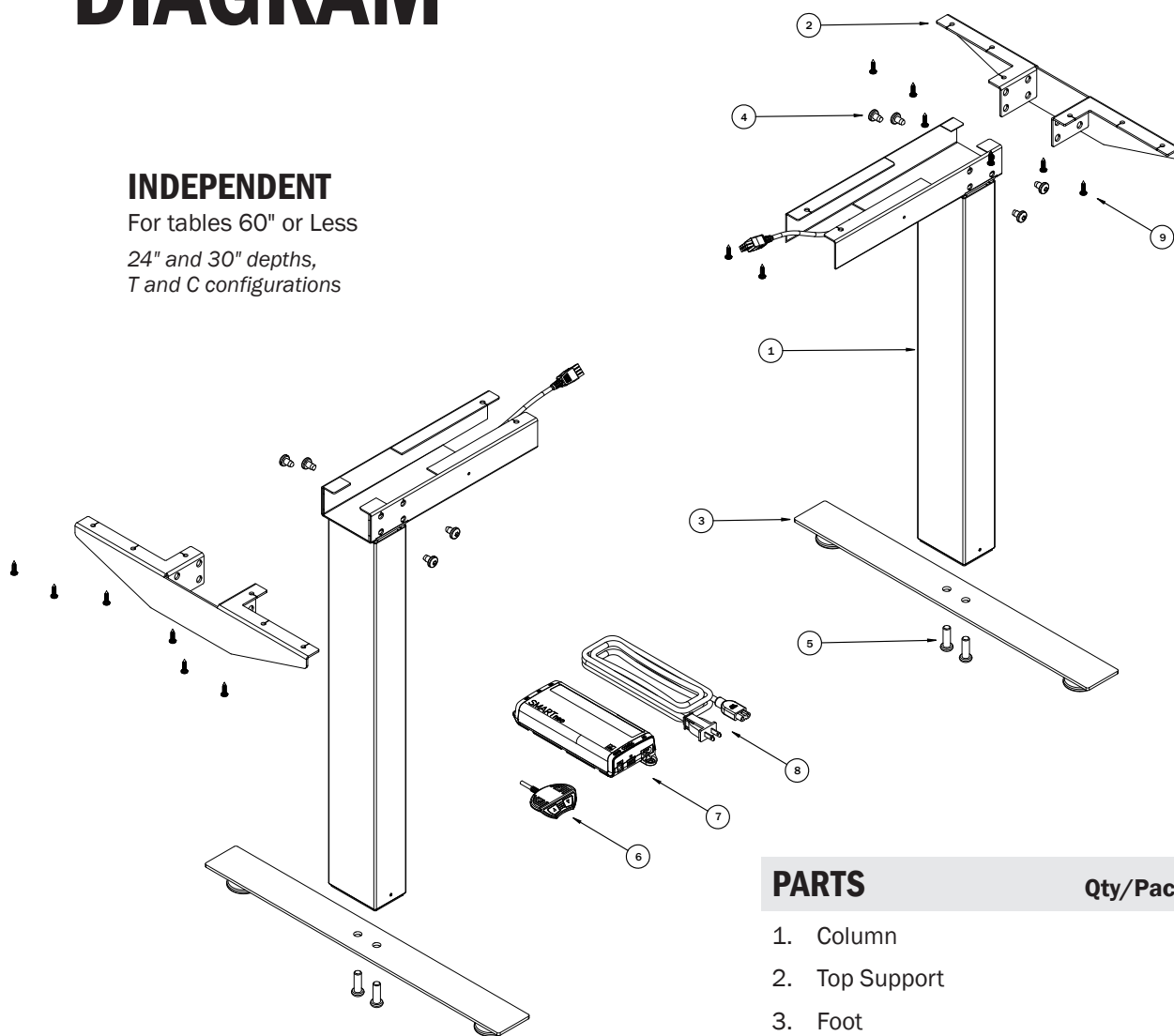
This manual explains how this sit-stand desk is assembled, used, and maintained. All sit-stand tables are subjected to functional and quality tests before leaving our facility.

PARTS DIAGRAM

INDEPENDENT

For tables 60" or Less

24" and 30" depths,
T and C configurations



DO NOT remove the foam
surrounding the motor.

PARTS

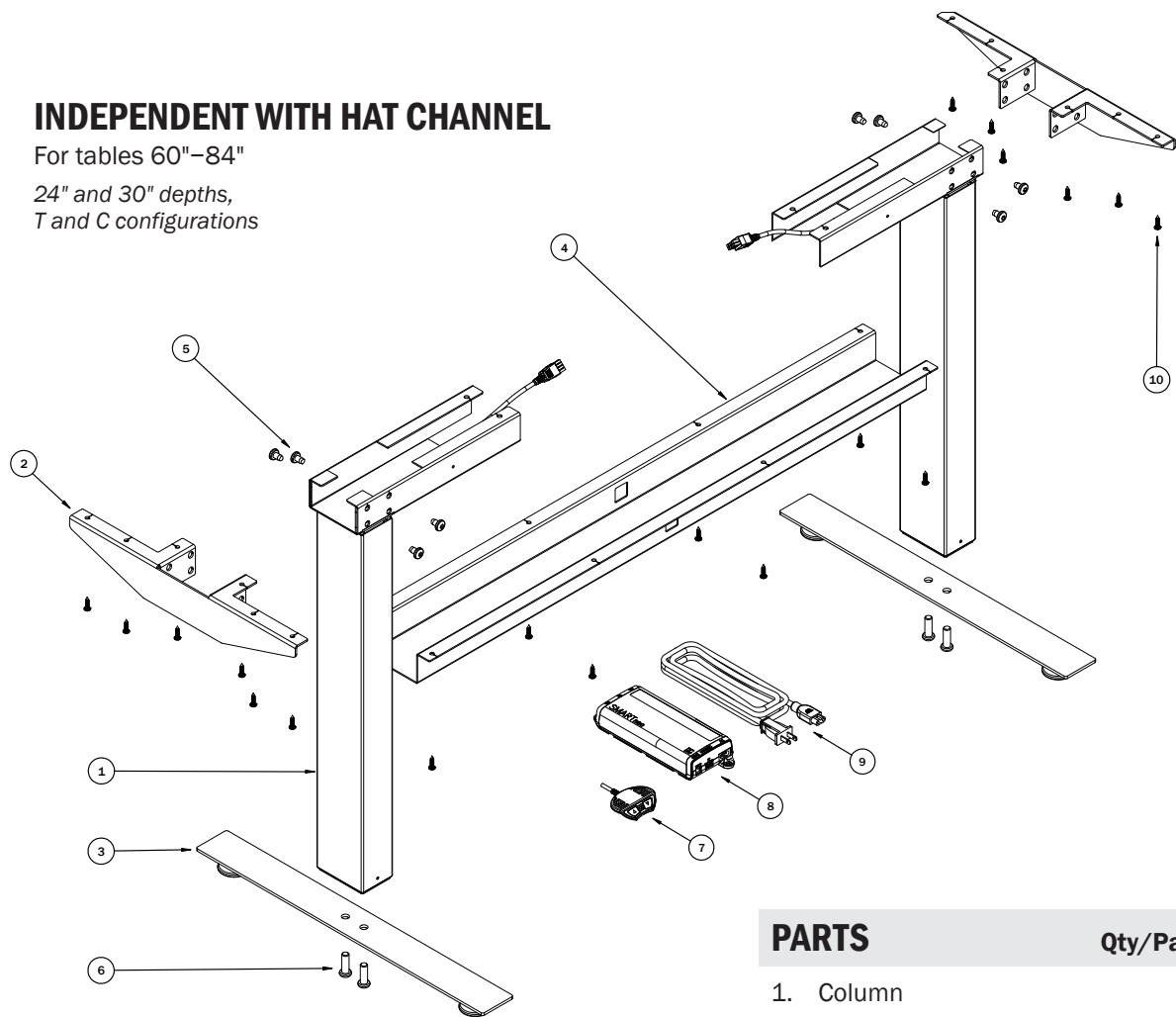
Qty/Package

| | |
|--------------------------------------|----|
| 1. Column | 2 |
| 2. Top Support | 2 |
| 3. Foot | 2 |
| 4. M8x1.25 12mm Self-Threading Screw | 8 |
| 5. M10x1.5 30mm Screw | 4 |
| 6. Handswitch | 1 |
| 7. Control Box | 1 |
| 8. Power Cord | 1 |
| 9. #10 x ¾ Screw | 32 |

* Quantity needed for installation
will vary due to desk configuration.

INDEPENDENT WITH HAT CHANNEL

For tables 60"-84"
24" and 30" depths,
T and C configurations



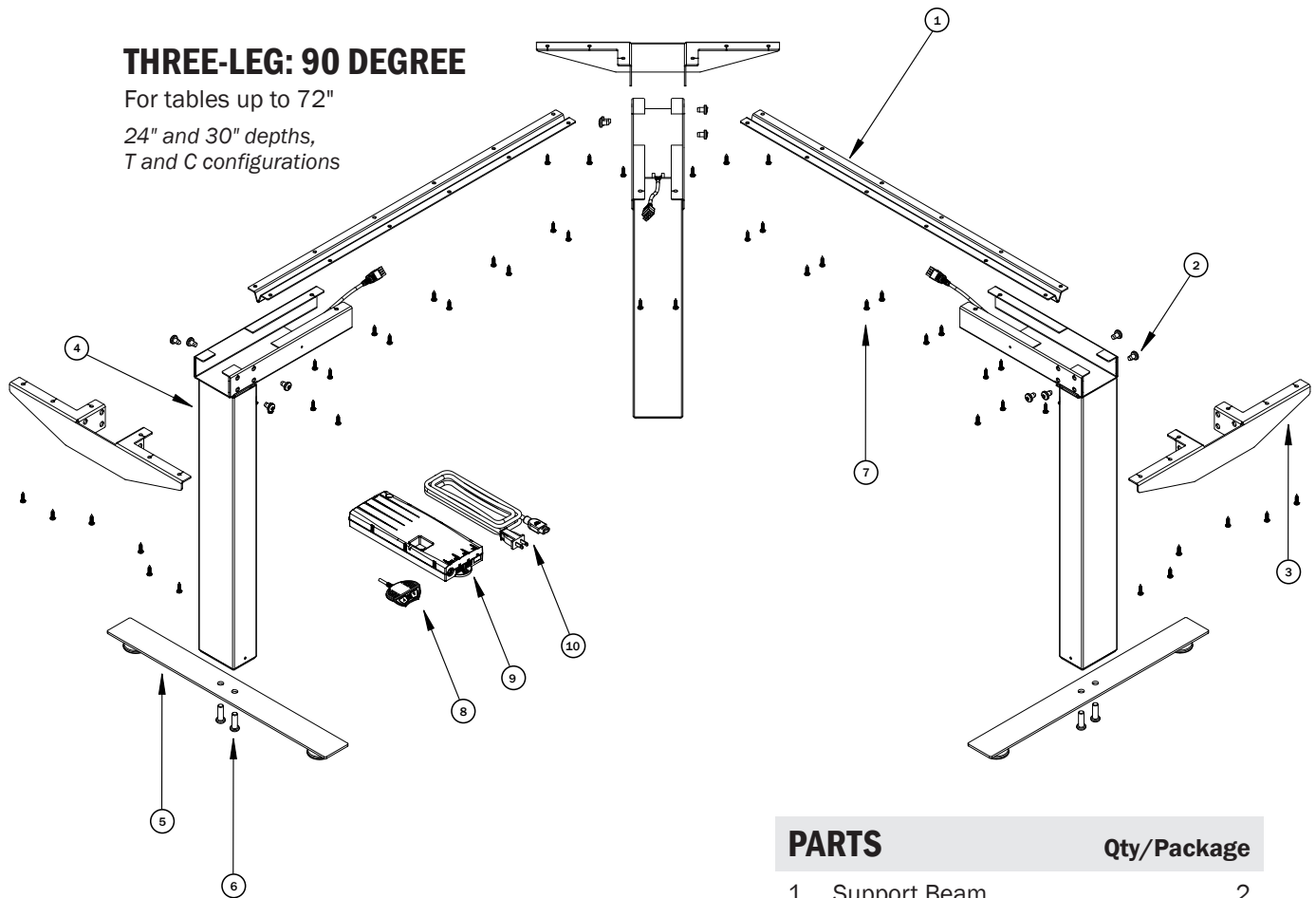
DO NOT remove the foam
surrounding the motor.

| PARTS | | Qty/Package |
|-------|-----------------------------------|-------------|
| 1. | Column | 2 |
| 2. | Top Support | 2 |
| 3. | Foot | 2 |
| 4. | HAT Channel | 1 |
| 5. | M8x1.25 12mm Self-Threading Screw | 8 |
| 6. | M10x1.5 30mm Screw | 4 |
| 7. | Handswitch | 1 |
| 8. | Control Box | 1 |
| 9. | Power Cord | 1 |
| 10. | #10 x 3/4 Screw | 40 |

** Quantity needed for installation
will vary due to desk configuration.*

THREE-LEG: 90 DEGREE

For tables up to 72"

24" and 30" depths,
T and C configurations

DO NOT remove the foam
surrounding the motor.

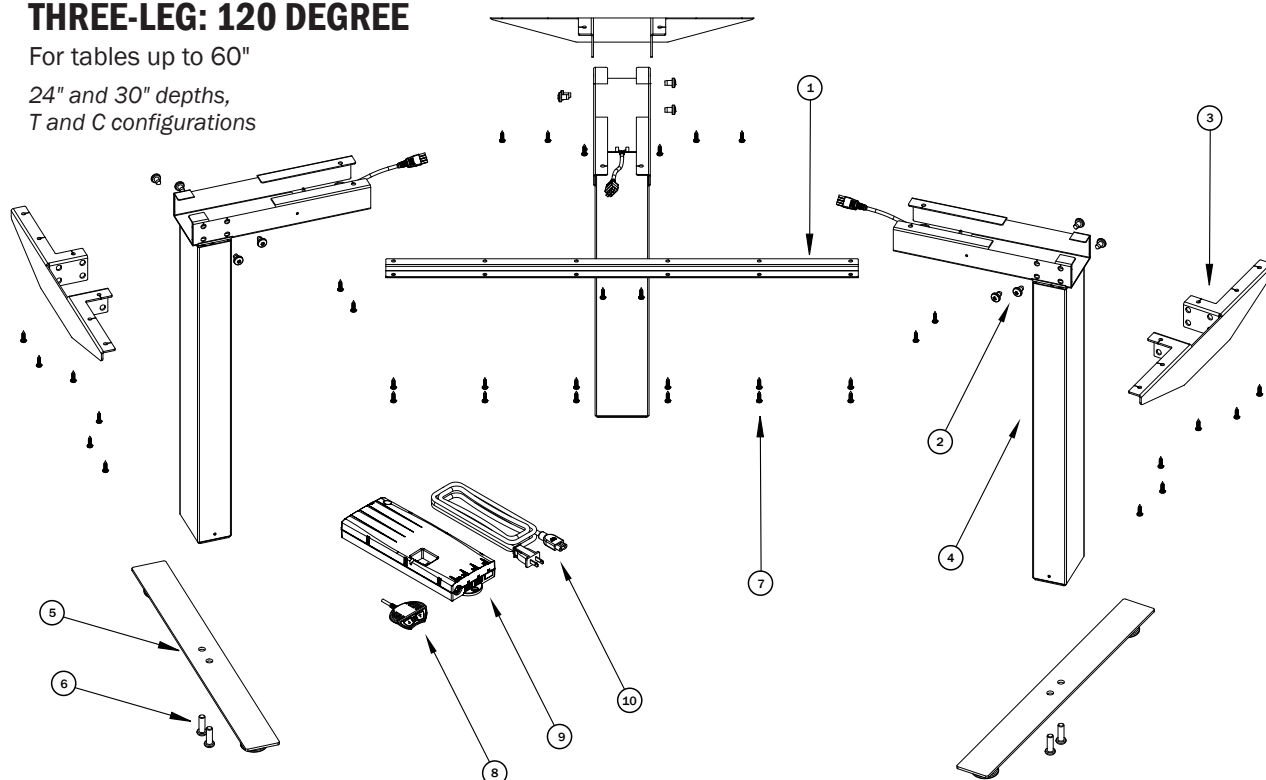
PARTS**Qty/Package**

| | |
|--------------------------------------|-------|
| 1. Support Beam | 2 |
| 2. M8x1.25 12mm Self-Threading Screw | 12 |
| 3. Top Support | 3 |
| 4. Column | 3 |
| 5. Foot | 3 |
| 6. M10x1.5 30mm Screw | 4 |
| 7. #10-15 3/4" Screw | 68-88 |
| 8. Handswitch | 1 |
| 9. Control Box | 1 |
| 10. Power Cord | 1 |

* Quantity needed for installation
will vary due to desk configuration.

THREE-LEG: 120 DEGREE

For tables up to 60"

24" and 30" depths,
T and C configurations**DO NOT** remove the foam
surrounding the motor.

| PARTS | Qty/Package |
|--------------------------------------|-------------|
| 1. Support Beam | 1 |
| 2. M8x1.25 12mm Self-Threading Screw | 12 |
| 3. Top Support | 3 |
| 4. Column | 3 |
| 5. Foot | 3 |
| 6. M10x1.5 30mm Screw | 4 |
| 7. #10-15 3/4" Screw | 52-64 |
| 8. Handswitch | 1 |
| 9. Control Box | 1 |
| 10. Power Cord | 1 |

* Quantity needed for installation
will vary due to desk configuration.

SAFETY INFORMATION

IMPORTANT SAFETY INSTRUCTIONS *Save these instructions.*

DANGER To reduce the risk of electric shock:

Always unplug the furnishing from the electrical outlet before cleaning or servicing.

WARNING: Risk of Electric Shock, Fire and Injury – Review the assembly instructions to confirm that the appropriate critical components and accessories are being used with the furnishing. Do not change or replace components and accessories provided by the manufacturer.

INSTALL ONLY APPROVED WORK SURFACES

This table system does not include a work surface (desktop). Work surface must be at least $\frac{3}{4}$ " thick and weigh no more than 5 lb. per square foot (For example, a 2'x6' desktop should weigh no more than 60 lb). Do not exceed a maximum weight for the desktop of 75 lb. To prevent table from tipping or collapsing, make sure the desk frame is not overloaded by the weight of tabletop and objects you plan to put on the table. If you are unsure, contact customer service.

KEEP AWAY FROM CHILDREN

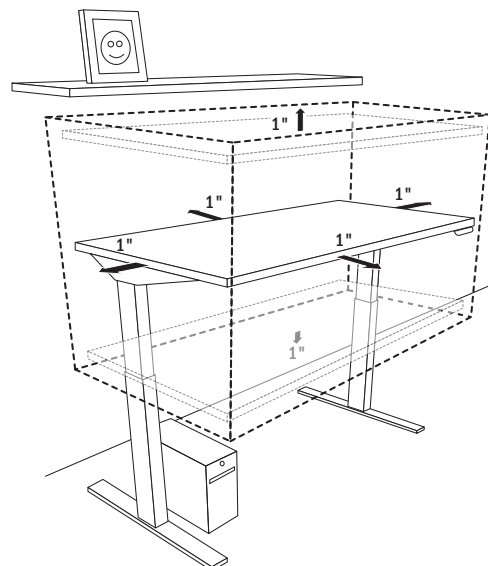
This table system is not designed for use in homes or other areas accessible by small children. For indoor commercial office use only.

BE CAREFUL WHEN ADJUSTING DESK HEIGHT

Body parts and property can be caught between the moving work surface and an immobile obstacle (such as shelves, furniture, window sills, or walls). Keep at least one inch of clearance around desk and make sure nothing is in table's path for its entire range of motion.

Before raising or lowering:

- Check surroundings on all sides of desk are clear
- Make sure corded objects will not be pulled off table or cause other objects to fall
- Make sure desk power cord moves freely as desk moves up and down



DO NOT OVERLOAD DESK

To prevent table from tipping or collapsing, make sure the desk frame is not overloaded by the weight of tabletop and objects on table. Evenly distribute load; excess loads near edges can reduce stability and lead to tip over.

- Do not exceed maximum load (including weight of desktop) of 200 lb. (91Kg) for two-leg configuration, and 250 lb. (113 Kg) for three-leg configuration
- Do not exceed edge load of 25 lb. when positioning monitors or mounting accessories.
- Do not sit or stand on table

USE CARE WHEN MOVING DESK

- Clear objects and equipment from table before moving to reduce the risk of tipping over.
- Adjust the desk to its lowest height before moving
- To disconnect, remove plug from outlet
- Do not move a loaded desk

DO NOT OPEN ELECTRICAL COMPONENTS

Do not attempt to service table components. There are no user-serviceable parts inside the motor control units or table legs. If your table needs service, contact customer service. Never operate this workstation if it has a damaged cord or plug.

KEEP TABLE FRAME DRY

Keep all electrical components away from water and high humidity. Clean only with a dry or slightly damp cloth. Do not spray cleaning solutions directly onto table system.

GROUNDING INSTRUCTIONS

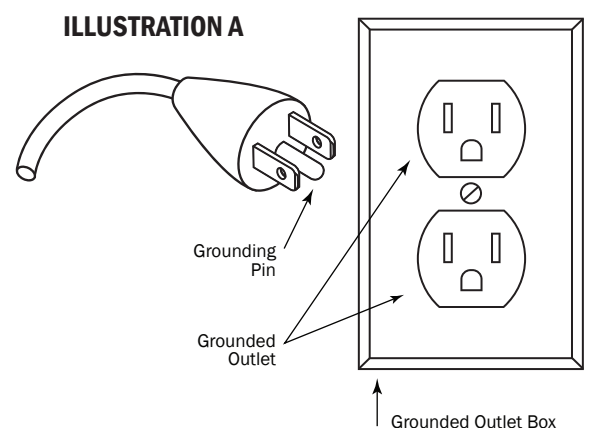
This product may be equipped with a cord having an equipment-grounding conductor and a grounding plug.

Use only the cord provided. Make sure that the product is connected to an outlet having the same configuration as the plug (as shown in Illustration A) that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided with the product – if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

No adapters are to be used with this product.

Keep cord away from heated surfaces.



ASSEMBLY INSTRUCTIONS

The assembly of the table frame to be made in accordance with this manual.
Changes to the table frame or improper use may affect the safety, function, and life of your product.

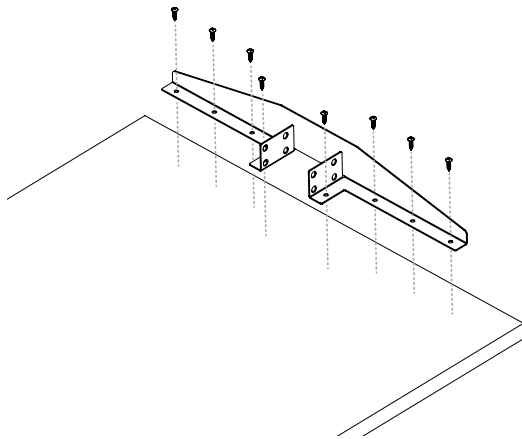
*This manual is for all sit-stand tables from the series.
Due to different models or types, pictures may vary.*

ASSEMBLY OVERVIEW

1. Fasten the top support onto the table top
2. Assemble the beam and column to the top support
3. Assemble the foot to the column
4. Fasten the table frame onto the table top
5. Fasten the control box and handswitch to the table top
6. Connect the motor cables to the control box
7. Connect the handswitch (HS) cable to the control box
8. Connect the supplied power cord (AC) to the control box
9. Attach all cables to the table frame or on the underside of the table top

DO NOT remove the foam surrounding the motor.

If you have any difficulty assembling this unit, or need to order replacement parts, please contact our Customer Service department.
Use the parts diagrams on page 3-6 as a reference.

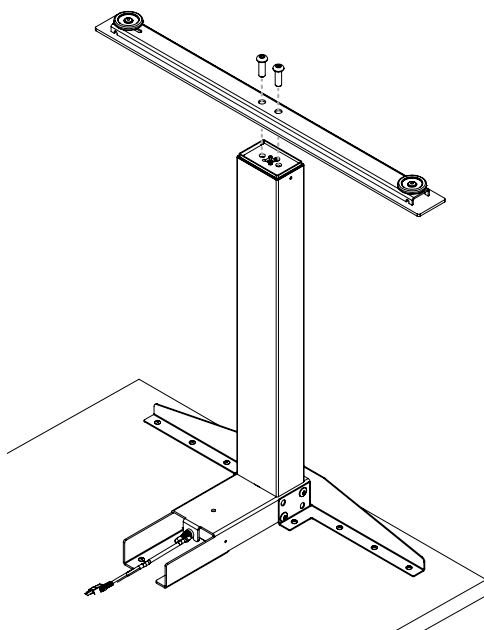
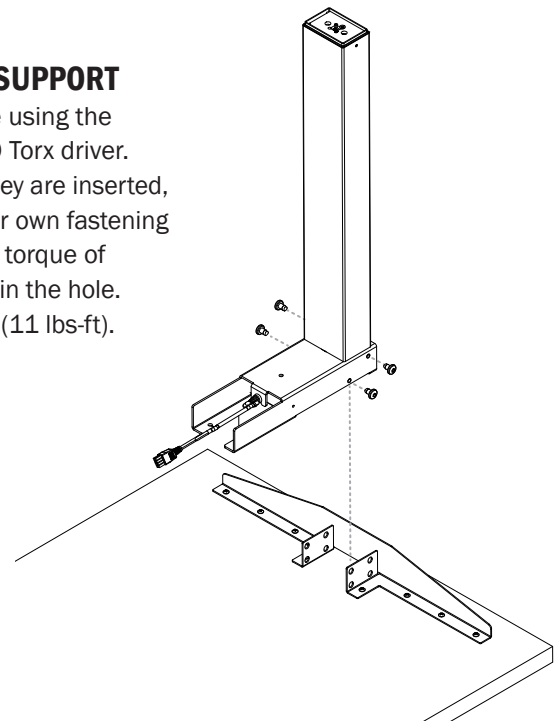


1 FASTEN THE TOP SUPPORT ONTO THE TABLE TOP

Be sure top supports are mounted 1.5" from edge of work surface.

2 ASSEMBLE THE BEAM AND COLUMN TO THE TOP SUPPORT

Align the independent beam to the top support. Assemble using the M8x1.25 x 12mm length screws (4 per column) and a T40 Torx driver. Be aware that the mounting holes may not be tapped. As they are inserted, the provided M8x1.25 x 12mm length screws will form their own fastening threads if none are already present. An average fastening torque of 8Nm (6 lbs-ft) will be required to initially engage the screw in the hole. The maximum tightening torque for these screws is 15Nm (11 lbs-ft). Repeat as necessary for remaining columns.

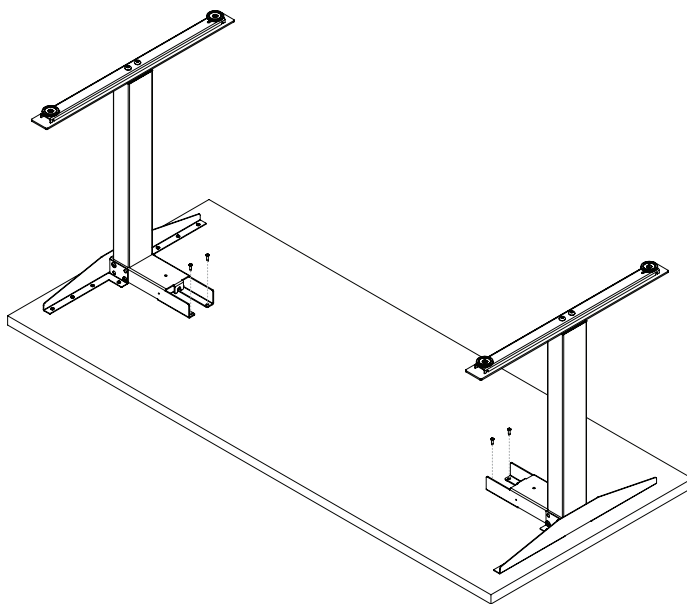


3 ASSEMBLE THE FOOT TO THE COLUMN

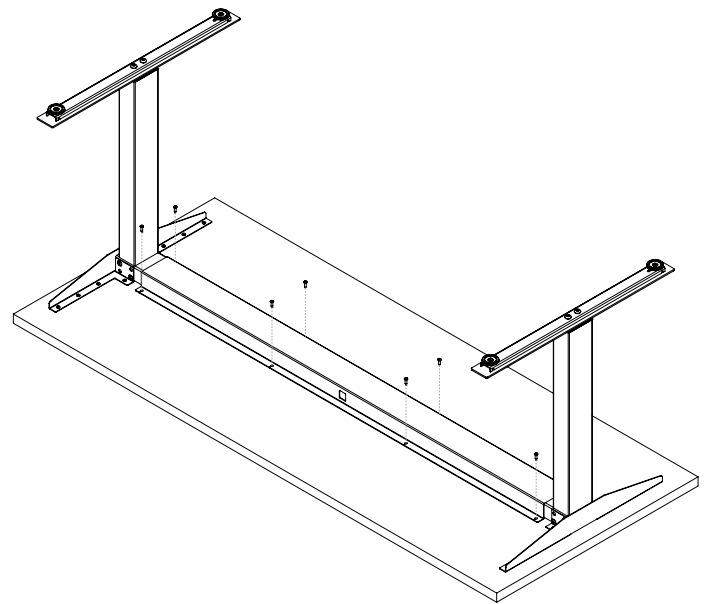
Assemble using the M10x1.5 x 30mm length screws (2 per column). The maximum tightening torque for these screws is 11Nm (8.1ft-lbs). In the absence of a torque wrench, use fingers to twist the bolts into position. Then apply an additional ¼ (90°) turn to each bolt with an M6 Hex drive. Note, each bolt should be tightened once. Do not retorquing the first bolt after torquing the last

4 FASTEN THE INDEPENDENT BEAM TO THE TABLE TOP

Be sure to use approved screws per the table top supplier.



INDEPENDENT*

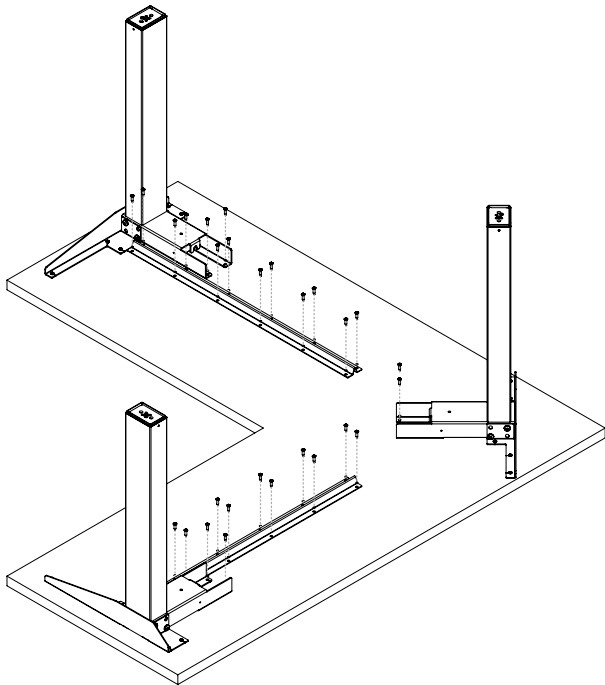


INDEPENDENT WITH HAT CHANNEL*

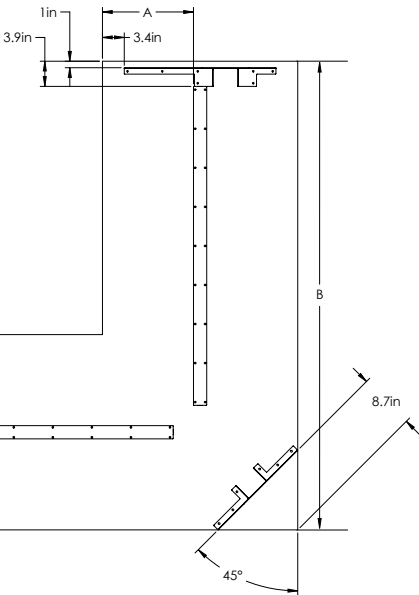
Note: Feed the motor cables through the HAT channel before attaching the HAT channel to the tabletop.

**Please make sure top supports are mounted 1.5" from edge of work surface.*

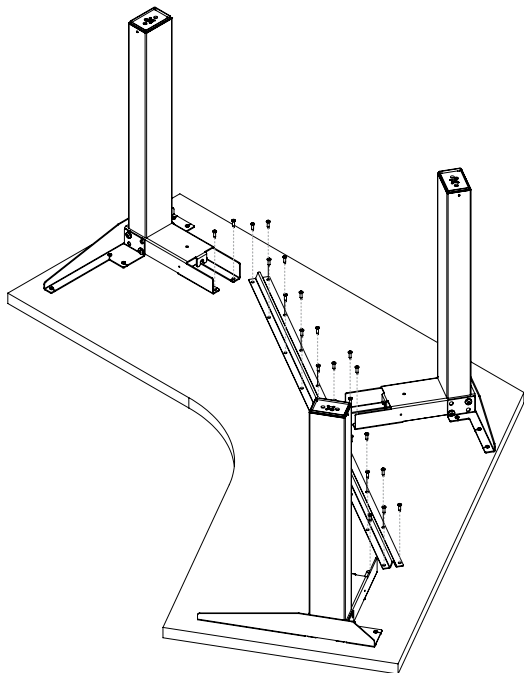
THREE-LEG: 90 DEGREE



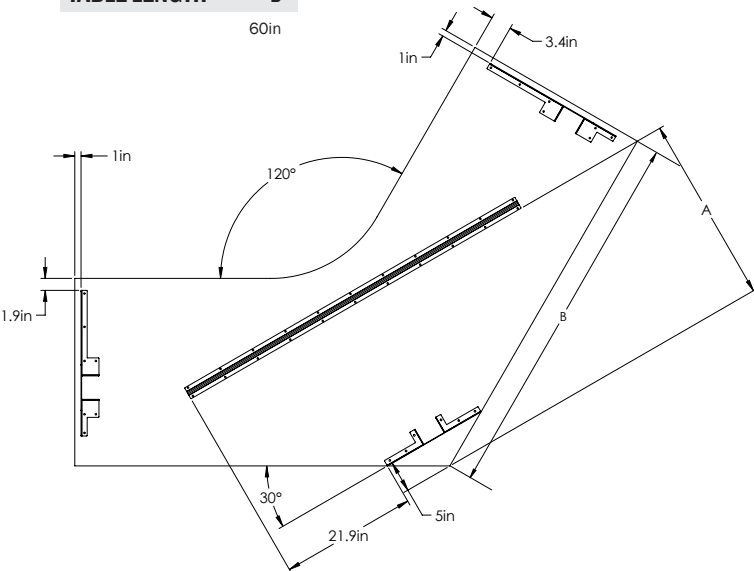
| TOP SIZE | A |
|--------------|------|
| 24in | 8in |
| 30in | 14in |
| TABLE LENGTH | B |
| | 72in |

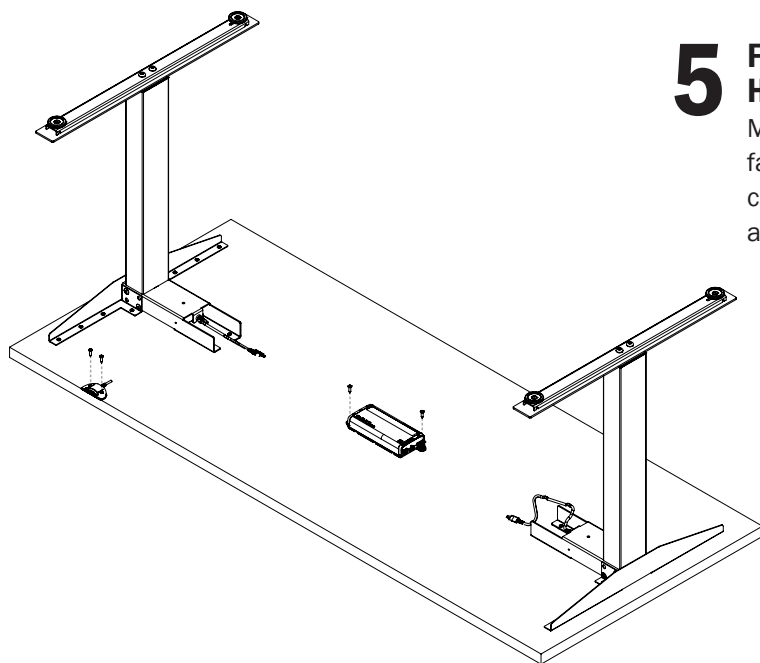


THREE-LEG: 120 DEGREE



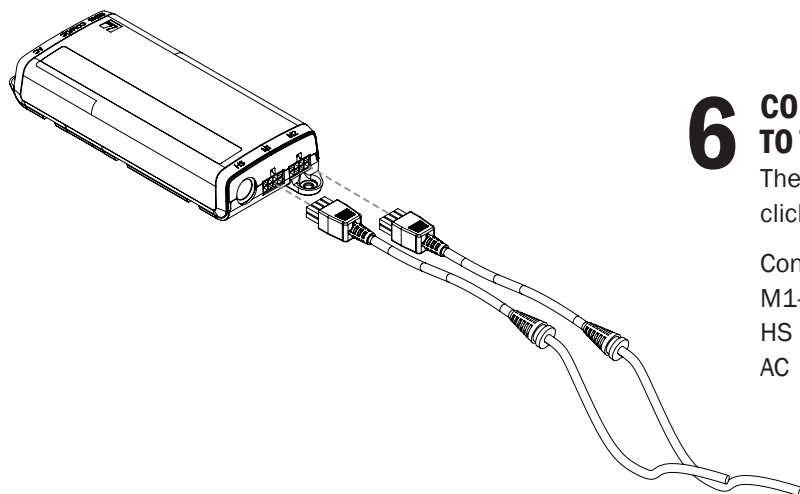
| TABLE DEPTH | A |
|--------------|------|
| 24in | 24in |
| 30in | 30in |
| TABLE LENGTH | B |
| | 60in |





5 FASTEN THE CONTROL BOX AND HANDSWITCH TO THE TABLE TOP

Make sure the control box and handswitch are fastened in a location where all the cables will connect without being in tension. Be sure to use approved screws per the table top supplier.



6 CONNECT THE MOTOR CABLES TO THE CONTROL BOX

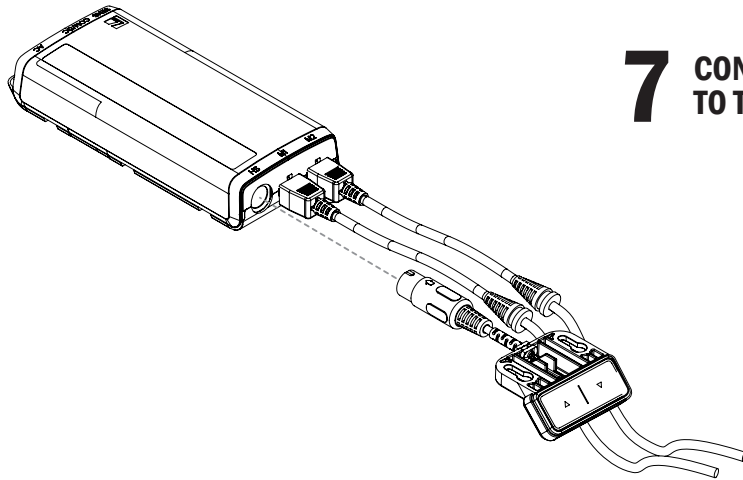
The motor cable plug-connection has to click into place.

Connections to the control box:

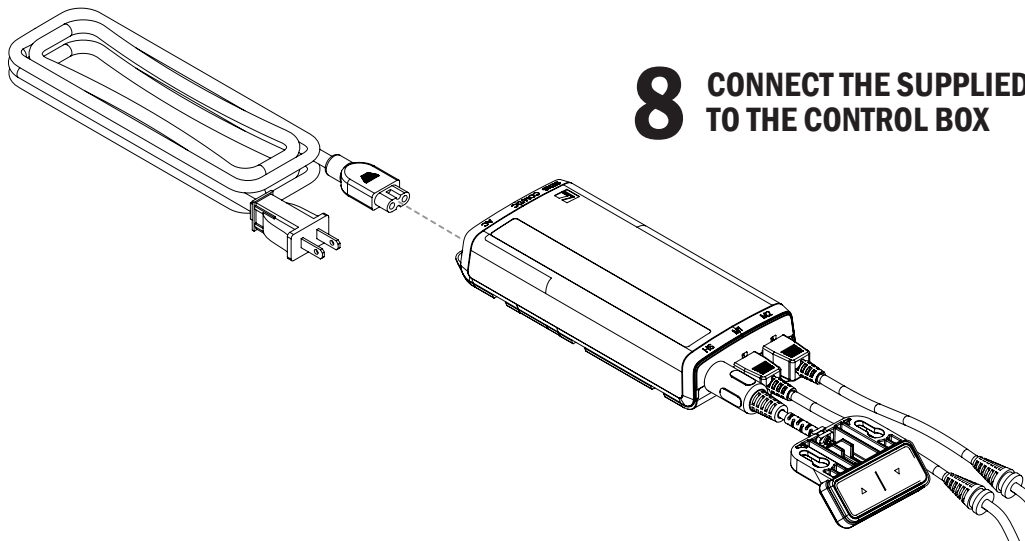
M1-M2 = Connectors for the columns

HS = Connectors for the handset

AC = Connector for the power cord (3-pin)



7 CONNECT THE HANDSWITCH (HS) CABLE TO THE CONTROL BOX



8 CONNECT THE SUPPLIED POWER CORD (AC) TO THE CONTROL BOX

9 ATTACH ALL CABLES TO THE TABLE TOP

Attach cables in order to avoid any damage during operation. **Never attach cables and cords to legs.**

OPERATION INFORMATION

INITIALIZATION/RESET

The desk must be initialized/reset after any of the following:

- After assembly
- After disconnection from the power supply
- After any impact on the table top.

To initialize/reset, move the table to the lowest position by pressing the DOWN button on the handswitch until the columns reach the lowest position. Press the DOWN button again until the table moves slightly down to the machine zero point and back up to the operation zero point. Release the DOWN button. If the button is released too soon, the table legs will not move up. Repeat the reset process.

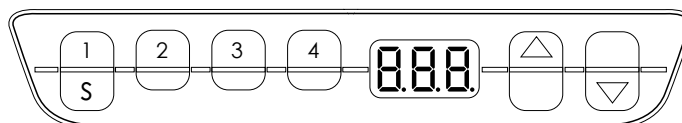
The control box is programmed with a parameter file which controls the table legs' lower and upper travel limits. **Under no circumstance should a control box from one table be moved to another.**

NORMAL HANDSWITCH OPERATION (for all handswitch types)

By pressing the UP or DOWN buttons, the table will move up or down to the desired position. Once the desired position is reached, let go of the UP or DOWN button. The table legs will stop once they reach the lower or upper height limits.

PROGRAMMABLE HANDSWITCH OPERATION (optional)

This programmable handswitch is equipped with a display for showing the current table height in centimeters or inches.



The handswitch also will display an error code if an error is detected by the control box. When an error is detected, the display will show an error code "EXX," instead of the current table height. To resolve the error, see the Troubleshooting Section (p. 20-21 of this guide).

The programmable handswitch also has the ability to save up to four different height positions.

PROGRAMMABLE HANDSWITCH OPERATION (continued)

CHANGE THE HEIGHT UNIT (inches or centimeters)

The handswitch can display the table height in either centimeters or inches. With the help of the S5-menus, the unit of measure can be changed.

To change the unit of measure, follow these steps:

1. Press and hold the 1, 2, and UP buttons until the display shows "S 5".
2. Confirm by pressing the "S" button. Now the display will have changed.

To exit the menu without making a selection, wait until the height display appears again.

CHANGE THE HEIGHT DISPLAY

If the displayed value does not match the actual height of the table top, the display can be corrected as follows:

1. Press and release the "S" button.
2. Press and hold the DOWN button until the display starts to flash.
3. Change the height shown on the handswitch by pressing the UP or DOWN button to the desired height. Confirm by pressing the "S" button.

To exit the menu without making a selection, wait until the height display appears again.

SAVE MEMORY POSITION

1. Move the table up or down to the desired height.
2. Press the "S" button (in the display "S -" is shown.)
3. Select a position by pressing one of the four number buttons, 1-4, (the display will show the setting as "S1").
4. The saved position is confirmed by a double click sound from the control box. The display shows the current table height. Repeat steps to save a maximum of four different positions.

RECALL MEMORY POSITION

Press and hold the desired memory button (1, 2, 3 or 4) the table moves from the current position into the saved position. The button must be pressed until the position is reached. If the button is released, the table will stop short of the desired height.

TROUBLESHOOTING

UNIT

| ERROR CODE | SOURCE | SOLUTION |
|--|---|---|
| Table does not move | No power supply | Plug in the power cord or check the connection on the control box |
| | No connection or a loose connection to the drives | Verify the plug connections of the motor cable to the control box |
| | No connection or a loose connection to the handswitch | Verify the plug connections of the motor cable to the control box |
| | Max lifting capacity is exceeded | Reduce the weight or load on the desktop |
| | Max time limit is exceeded | Control is activated automatically after approx. 9 minutes |
| | Defective drive | Contact customer service |
| | Defective control box | Contact customer service |
| | Defective handswitch | Replace the handswitch |
| Table moves down at a slow rate | Control box expects new reset | Reset control box. (see Operation section) |
| During operation, tables moves at a slow rate | Max lifting capacity is exceeded | Reduce weight |
| Table moves on one side only briefly and then stops | No connection or a loose connection to the drives | Verify the plug connections of the motor cable to the control box and reset the control box |
| | Defective drive | Contact customer service |

HANDSWITCH DISPLAY

| ERROR CODE | SOURCE | SOLUTION |
|------------|---|--|
| HOT | The control box monitors the duty cycle (time-controlled) and its max temperature. A value has been exceeded. | Wait until the “HOT” display goes out - the table is working properly again |
| E00 | M1 – Internal Fault | Unplug and contact customer service |
| E01 | M2 – Internal Fault | |
| E02 | M3 – Internal Fault | |
| E12 | M1 – Defect | Unplug. Correct the external short circuit and/or verify the cable to the drives. Plug cables into the control box and re-run table. |
| E13 | M2 – Defect | |
| E14 | M3 – Defect | |
| E24 | M1 – Overcurrent | Collision → resolve if necessary |
| E25 | M2 – Overcurrent | Max load exceeded → remove excess load from the table |
| E26 | M3 – Overcurrent | If the problem still exists, please contact customer service |
| E36 | M1 – Not connected | Motor not connected. Check cable / connector to the drive. Reset the table (see Operation section). |
| E37 | M2 – Not connected | |
| E38 | M3 – Not connected | |
| E48 | Overcurrent drive 1 | Collision → resolve if necessary |
| E49 | Overcurrent drive 2 | Max load exceeded → remove excess load from the table |
| E55 | Drive 1 - Synchronization is lost | If necessary, reduce the load on the table |
| E56 | Drive 2 - Synchronization is lost | Reset the table (see Operation section) |
| E60 | Collision identified | Option ISP function. Remove source. |
| E61 | Drive replaced | The connection to the drive is interrupted or a new drive is connected. Reset the table (see Operation section). |

If it is not possible to resolve an error as described, disconnect the power cord, wait a few minutes and reset the table again.

If the error still occurs, remove the table from the power source and contact customer service.

(Error Code list is valid from firmware 1.7.5 and higher)

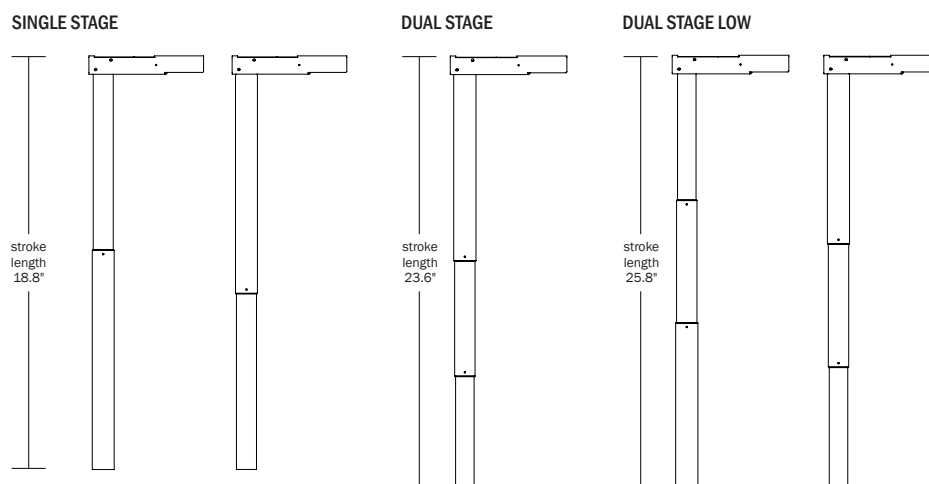
TECHNICAL DATA

| GENERAL CONTROL BOX | |
|---|----------------------------|
| Power supply | 120 VAC $\pm 10\%$ / 60 Hz |
| Standby power consumption, primarily | <0.3 W |
| Operating temperature | 0-35°C |
| Protection class | IP 20 |
| Maximum power output | 216VA/24V |

| TWO-COLUMN FRAME WITH CONTROL BOX | |
|---|----------------------------------|
| Maximum lift capacity | 200 lb (≈ 90 kg / 890N) |
| Adj. range, depending on version | View Illustration B |
| Maximum input current | 5 A |
| Maximum duty cycle | 10% (2 min. on / 18 min. off) |

| THREE-COLUMN FRAME WITH CONTROL BOX | |
|---|------------------------------------|
| Maximum lift capacity | 250 lb (≈ 113 kg / 1112N) |
| Adj. range, depending on version | View Illustration B |
| Maximum input current | 6.5 A |
| Maximum duty cycle | 10% (2 min. on / 18 min. off) |

ILLUSTRATION B



STANDARDS & CERTIFICATIONS

The drive system is tested according to the following standards:

UL 962

Issued: 2014/11/07 Ed: 4 Household and Commercial Furnishings

CSA C22.2#68

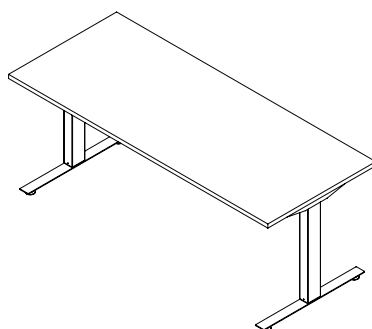
Issued: 2009/09/01 Ed: 7 (R2014)

Motor-Operated Appliances (Household and Commercial)

Meets BIFMA X5.5 2014.



End of life cycle: Once product is disassembled, all steel components can be recycled at your local metal collector. For products with electronic components, see Disassembly Guide.



KENNA USER GUIDE

— SYMPHONY® —
