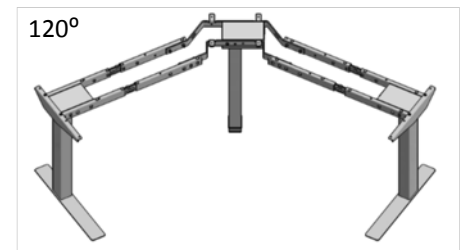
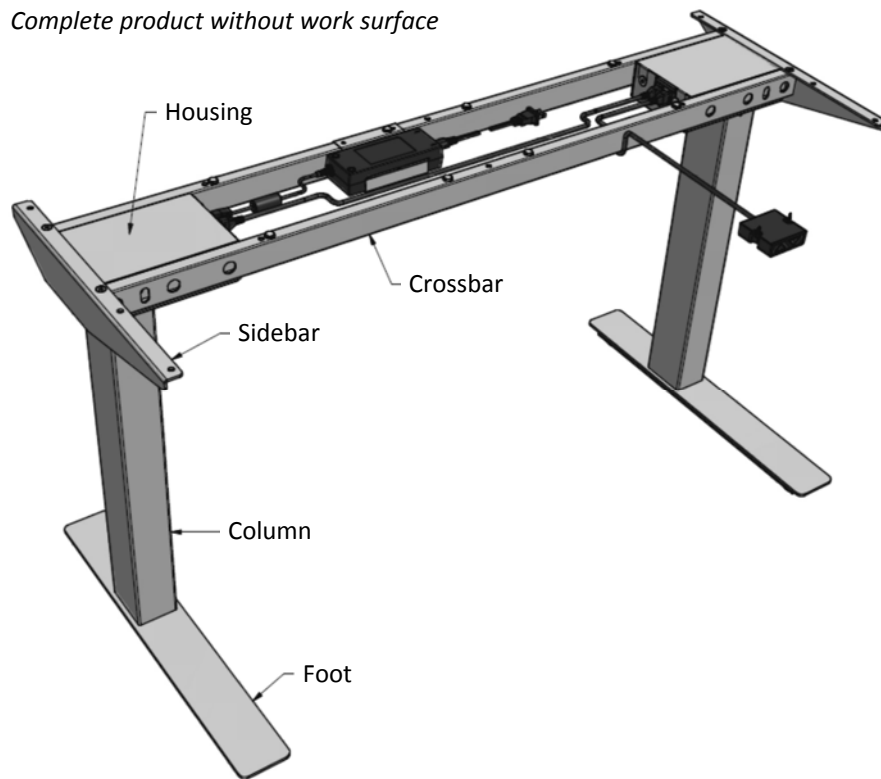


### Tone Electric and Extended Electric

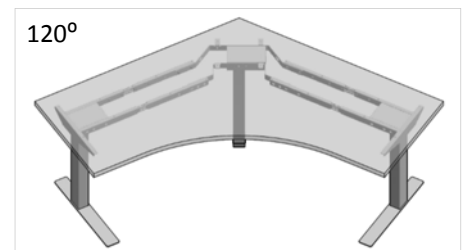
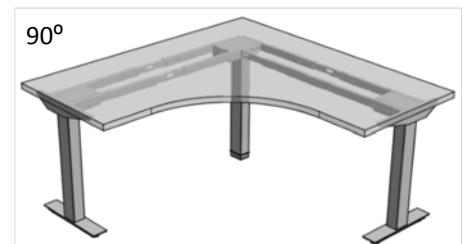
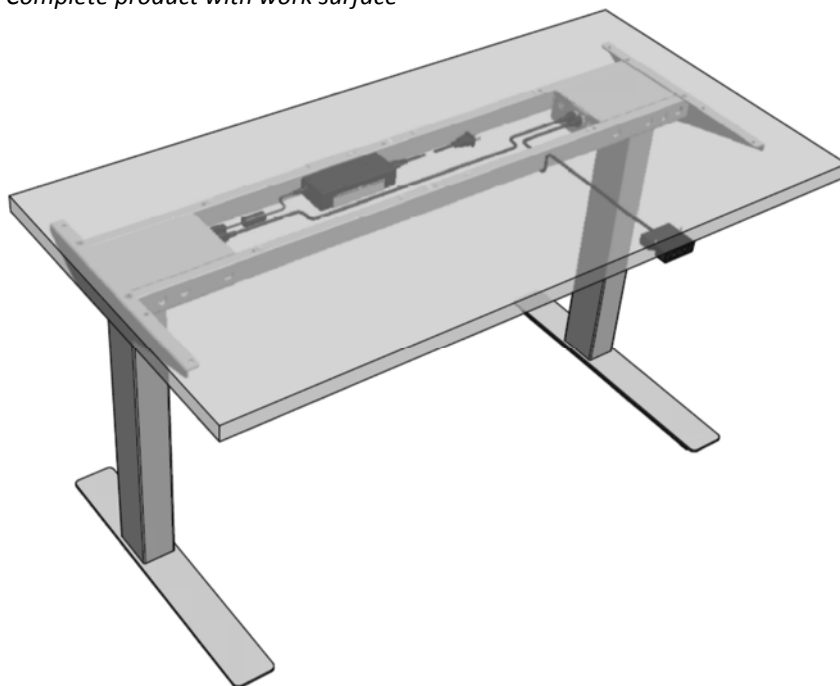
*Note that these instructions show generic parts. Parts included in individual tables may differ in appearance and functionality but the assembly principle is the same.*

**Caution:** No impact drivers or other high-torque equipment are to be used!

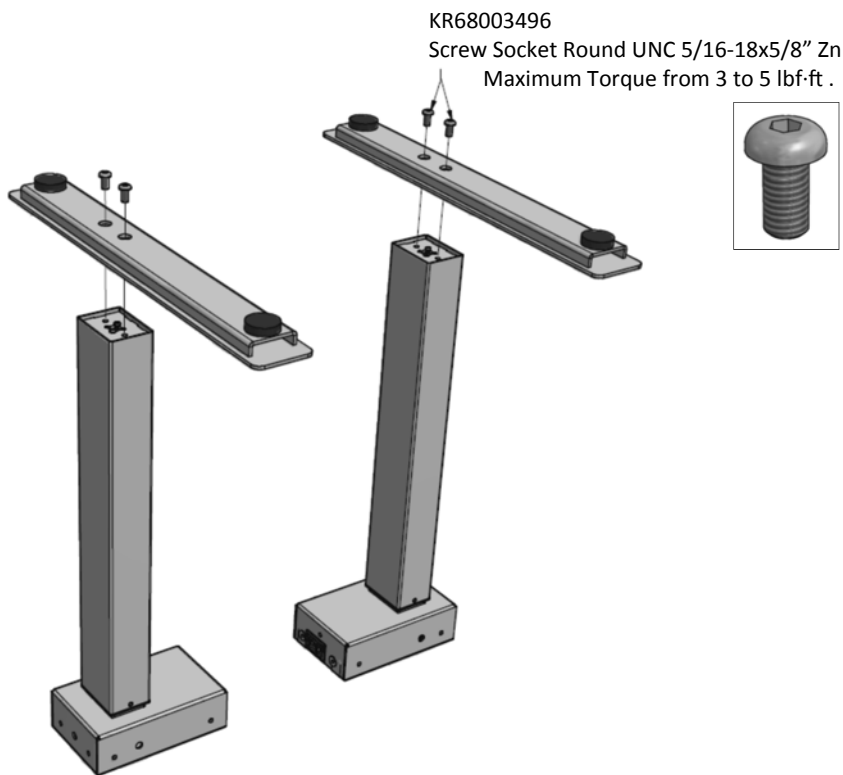
*Complete product without work surface*



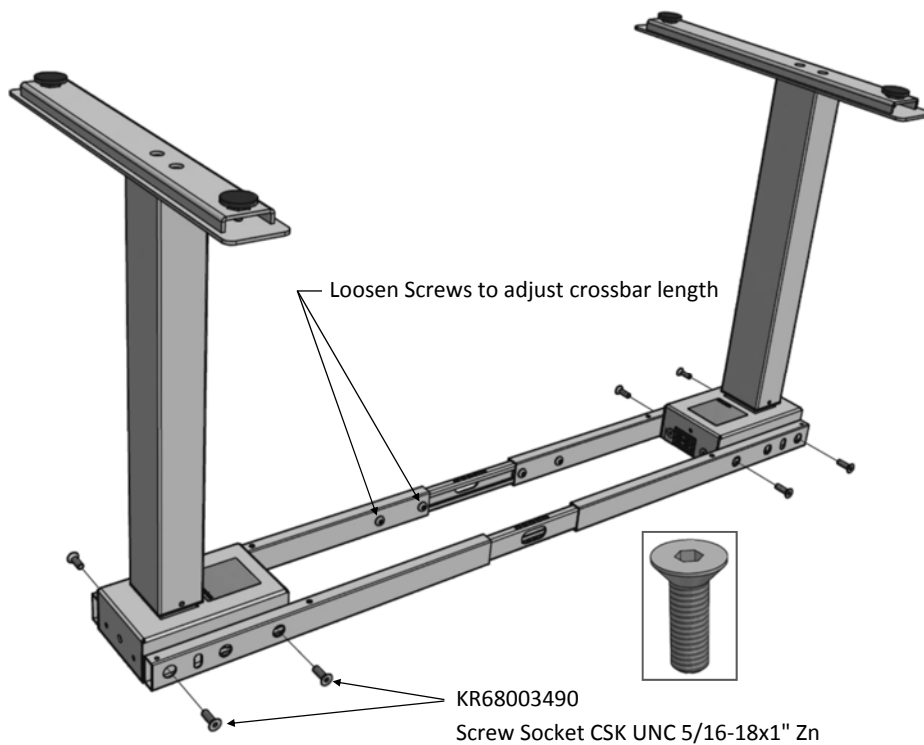
*Complete product with work surface*



(Fig. 1) Feet



(Fig. 2) Crossbars



Alternative foot types.

On-Foot / OnC (for 2-stage columns)



On-Foot / OffC (for 2-stage columns)



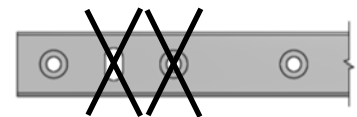
In-Foot / OnC (for 3-stage columns)



In-Foot / OffC (for 3-stage columns)



**Do not use the two middle holes of the crossbars.**



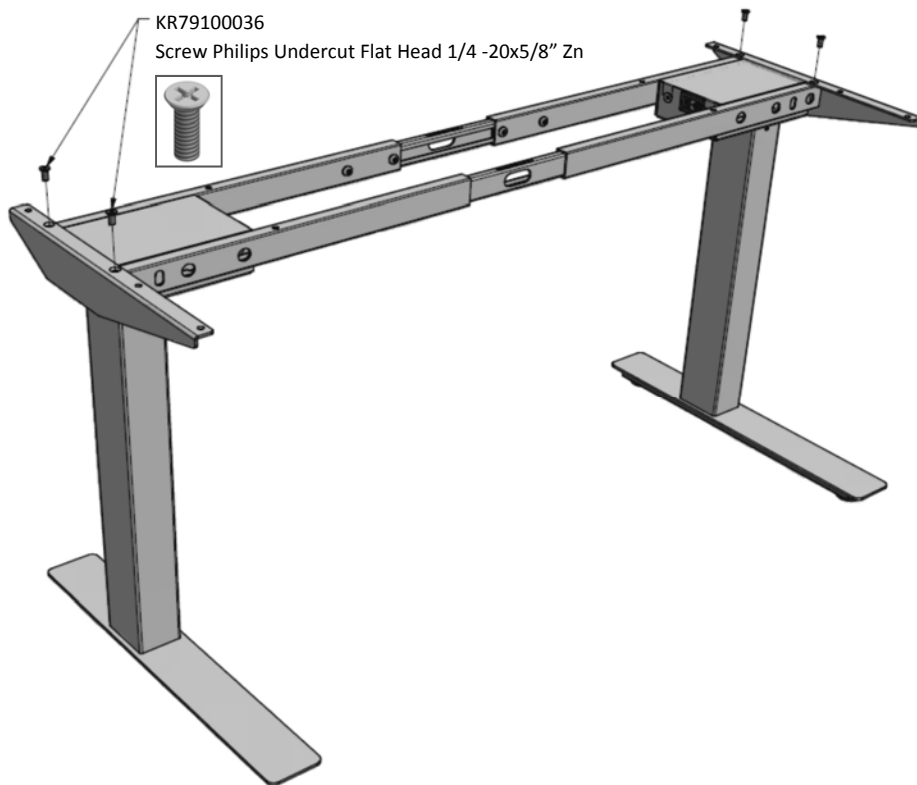
Adjustable crossbar



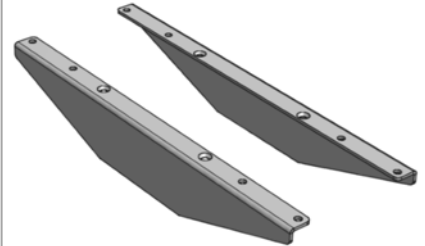
Fixed crossbar



**(Fig. 3) Sidebars**



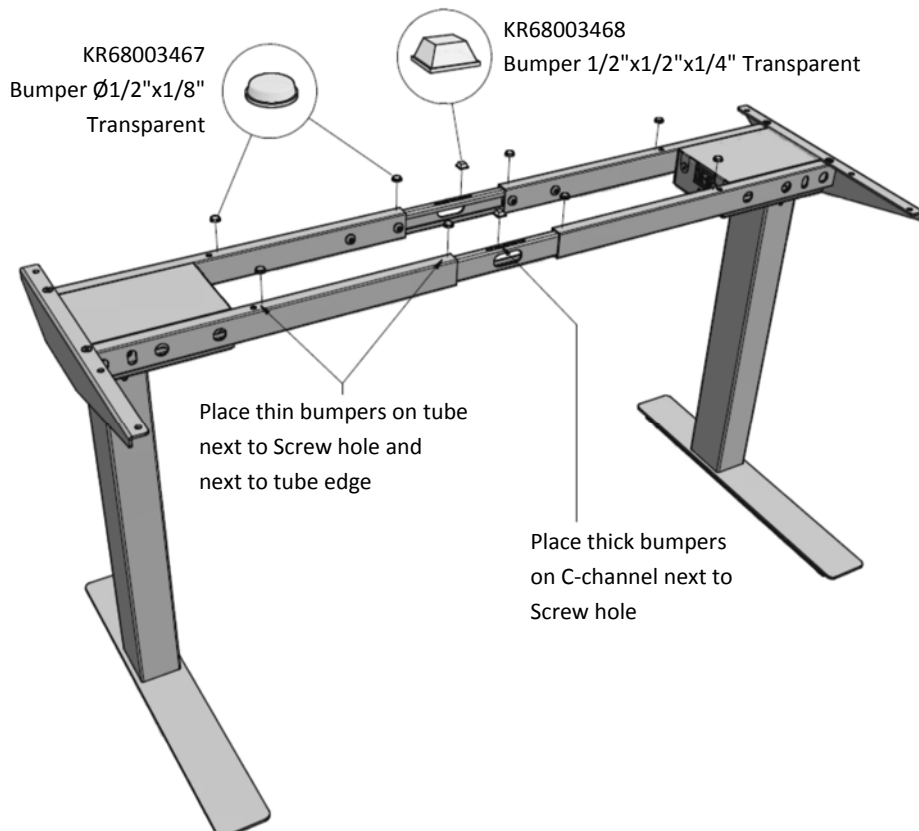
*Symmetric Sidebar for T-leg  
Part number: KR3ae4015*



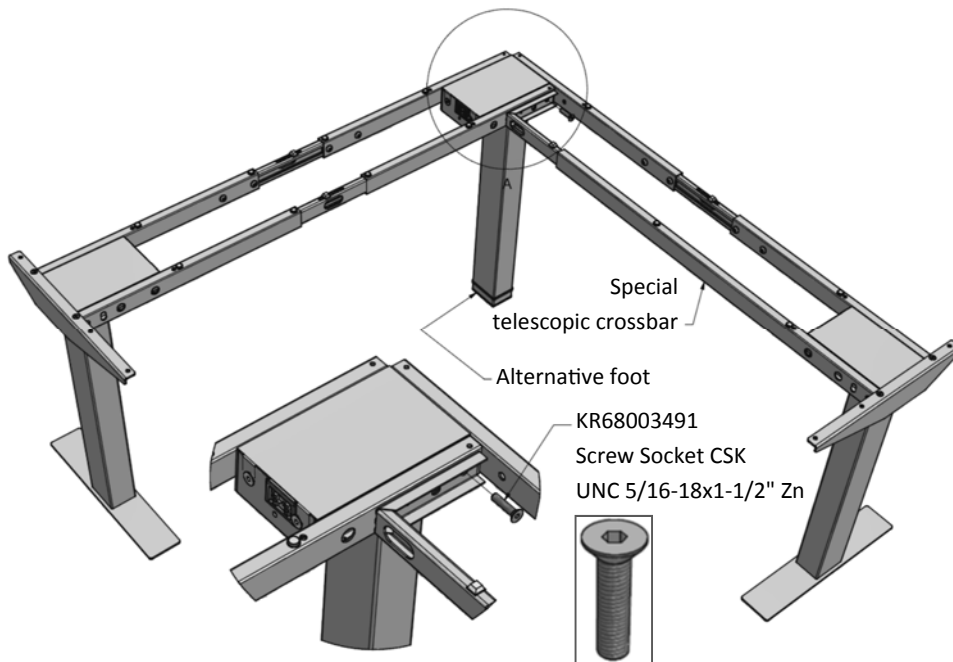
*Right Hand / Left Hand sidebars for C-leg  
Part numbers: KR3ae4014L - Left  
KR3ae4014R - Right*



**(Fig. 4) Bumpers**

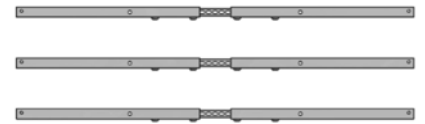


(Fig. 5) 3-Column 90° Adjustable Crossbars



**Adjustable crossbars for 3-column 90° table.**

*3 regular adjustable crossbars*

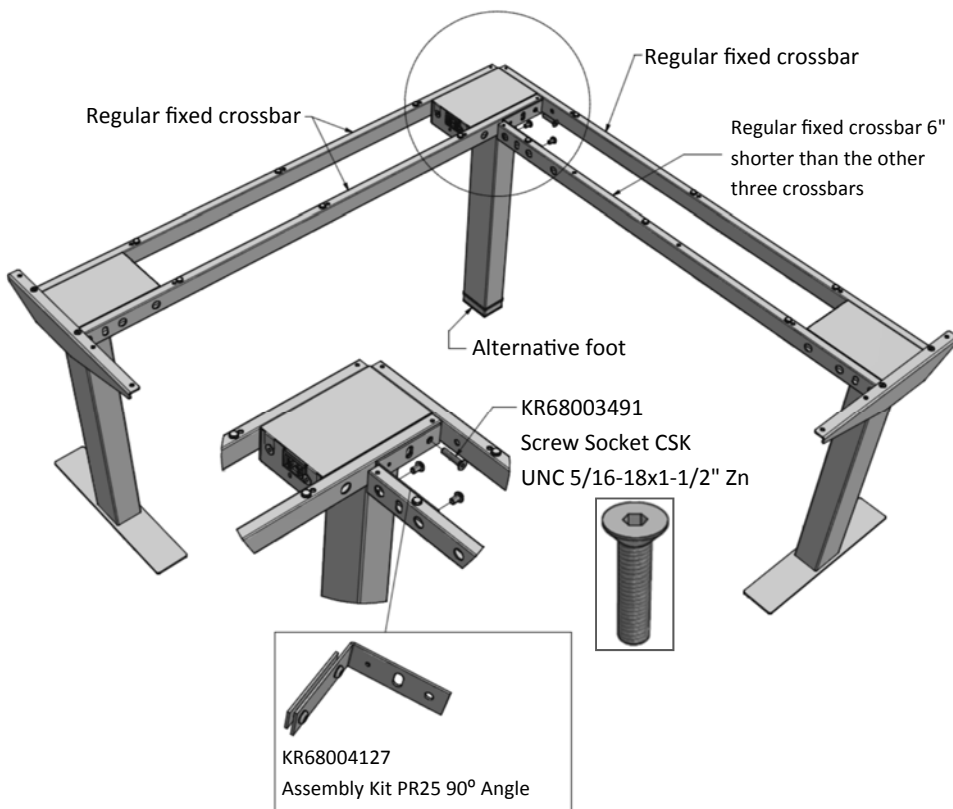


*1 special adjustable crossbar*



*No additional assembly kit*

(Fig. 6) 3-Column 90° Fixed Crossbars



**Fixed crossbars for 3-column 90° table.**

*3 regular fixed crossbars*



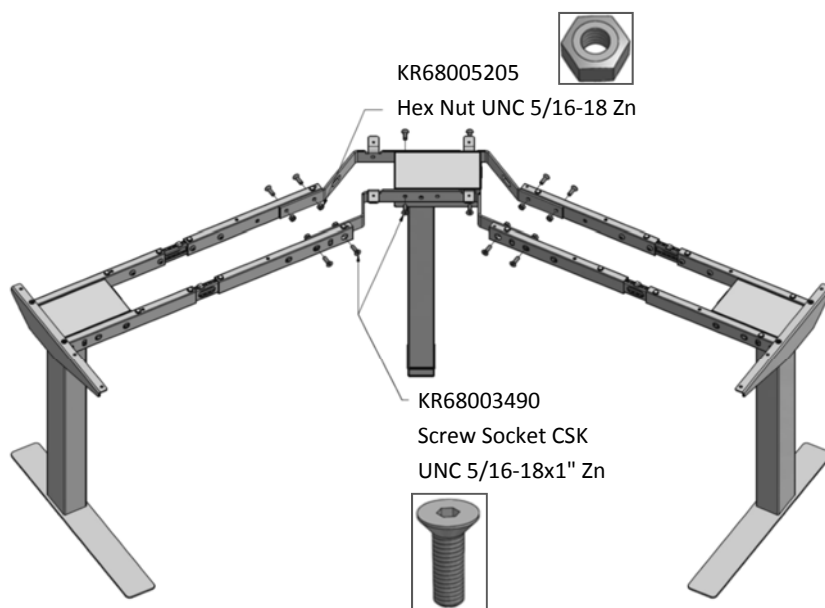
*1 regular fixed crossbar, 6" shorter than the other three crossbars.*



*1 additional assembly kit*

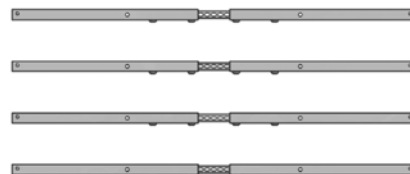


**(Fig. 7) 3-Column 120° Adjustable Crossbars**



**Adjustable crossbars for 3-column 120° table.**

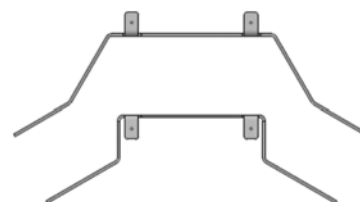
*4 regular adjustable crossbars*



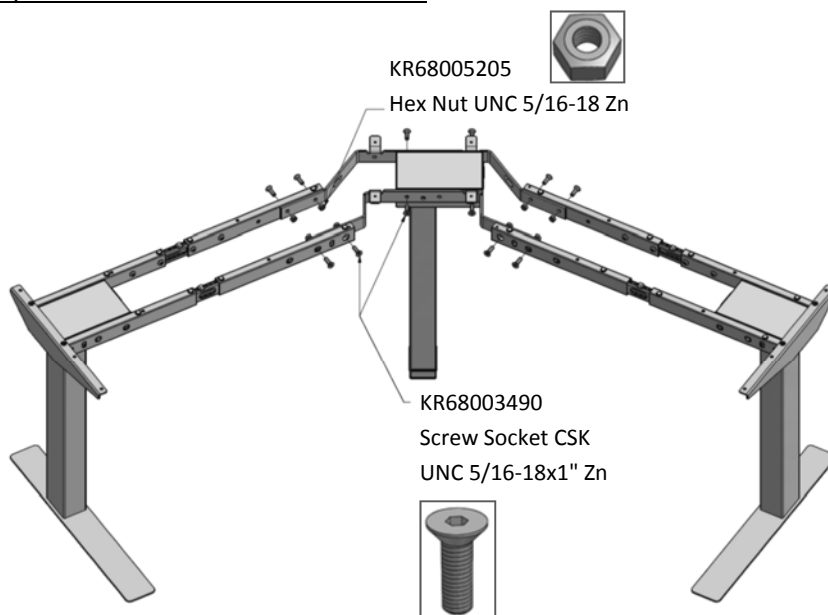
*2 Brackets*

*KR3AE4121 Bracket Outer*

*KR3AE4120 Bracket Inner*



**(Fig. 8) 3-Column 120° Fixed Crossbars**



**Fixed crossbars for 3-column 120° table.**

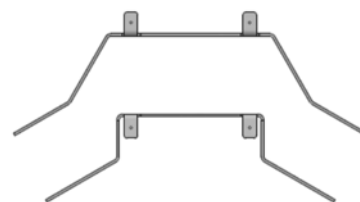
*4 regular fixed crossbars*



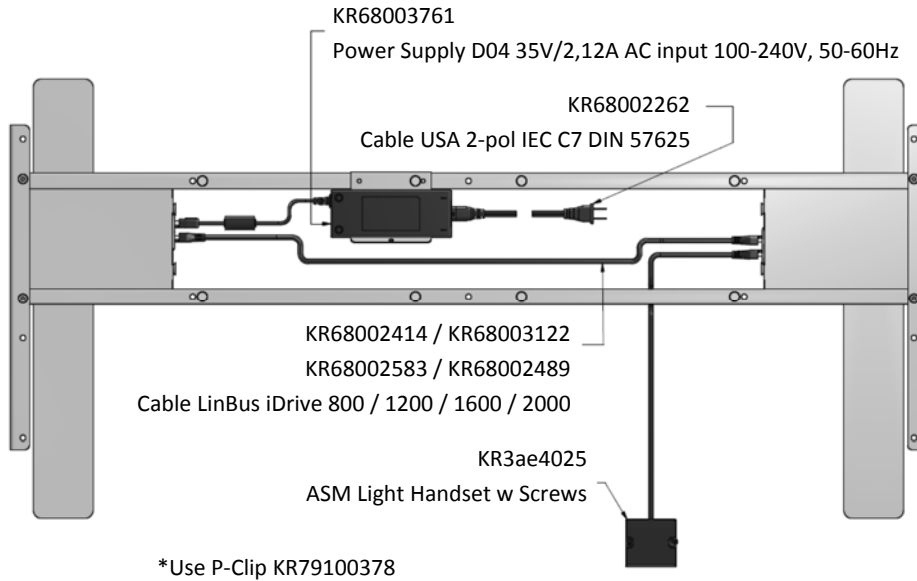
*2 Brackets*

*KR3AE4121 Bracket 120° Outer*

*KR3AE4120 Bracket 120° Inner*



**(Fig. 9) Electrical 2-Column**



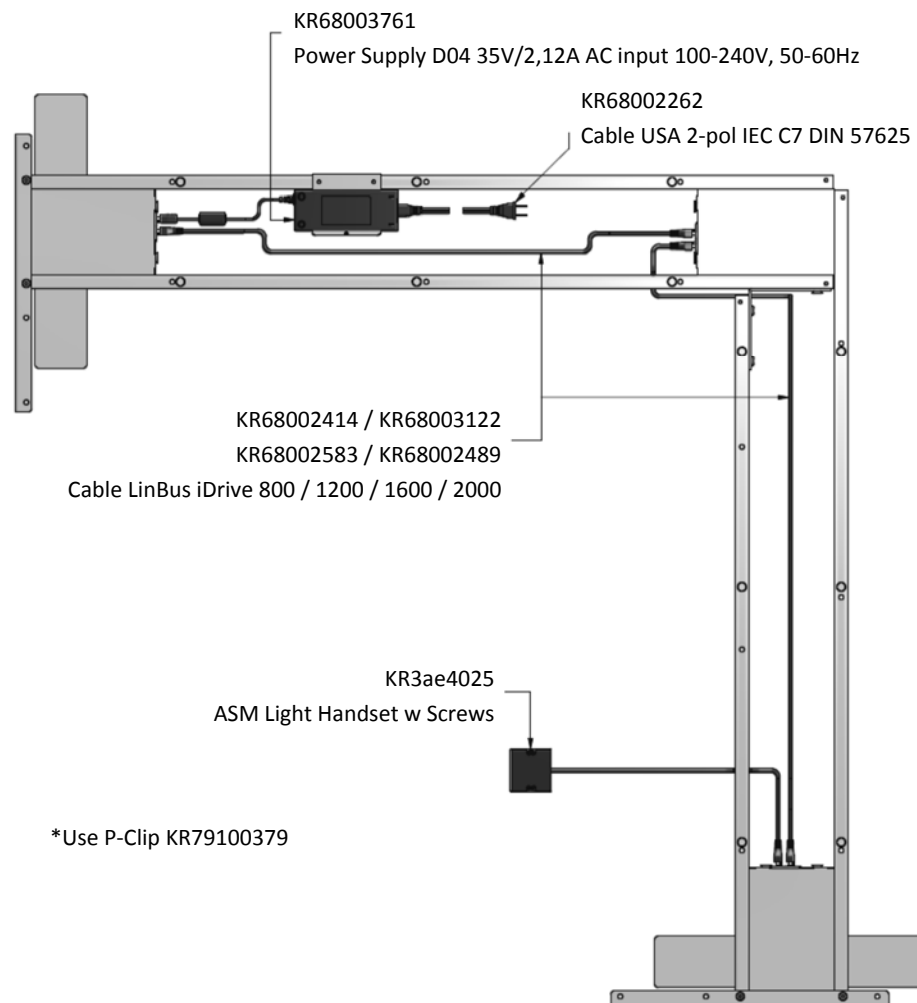
KR3ae4025 - ASM Light Handset



KR3ae4026 - Handset w Display



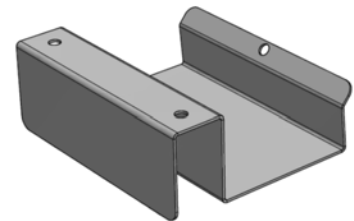
**(Fig.10) Electrical 3-Column 90°**



KR3ae4051

Holder for Power Supply

*Hooks over crossbar or screws into work surface.*

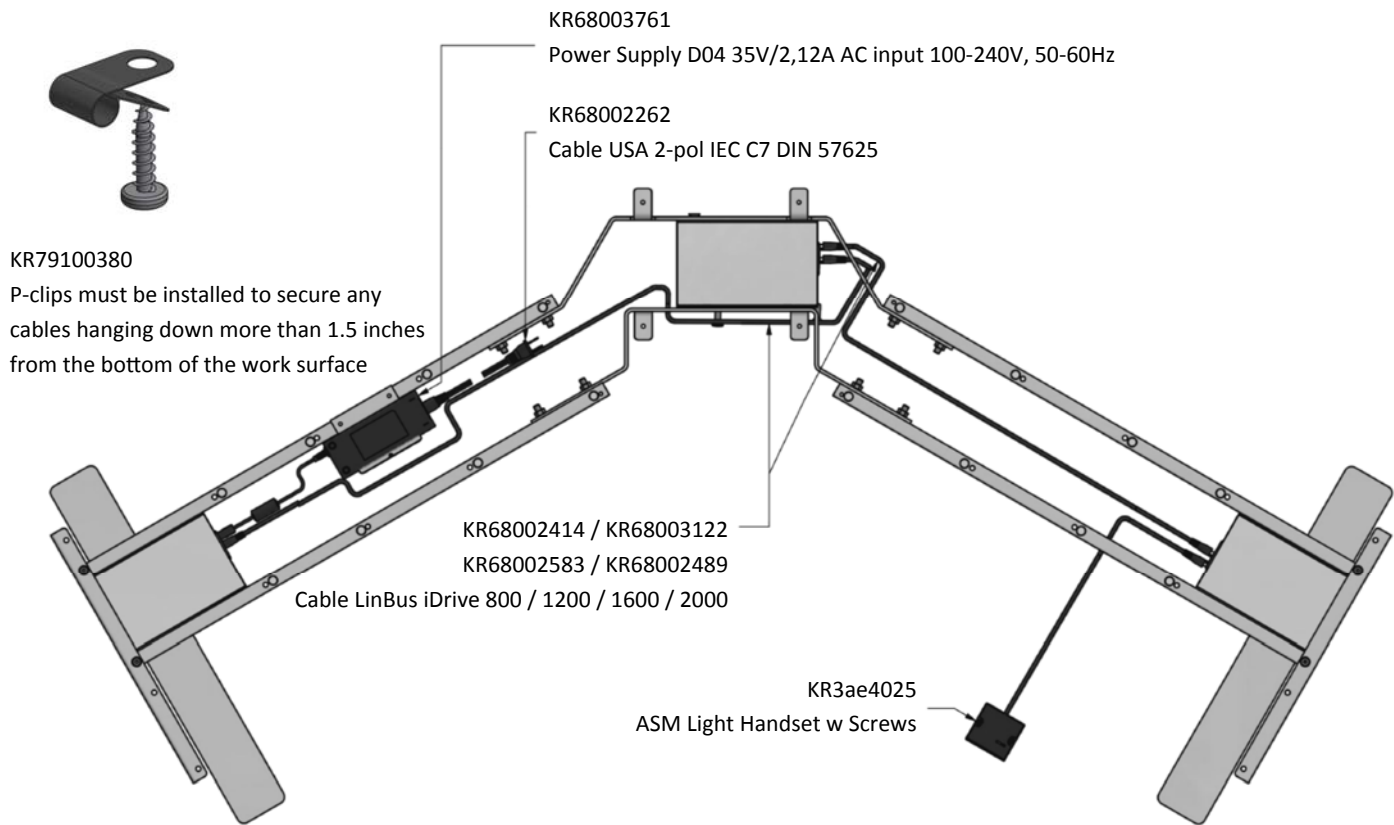


\*KR79100378/KR79100379

P-clips must be installed to secure any cables hanging down more than 1.5 inches from the bottom of the work surface



(Fig. 11) *Electrical 3-Column 120°*



### Warning Leaflet Tone Electric



### User Manual Tone Electric



Warning leaflet and user manual should be left on the table after completed installation.

### ASSEMBLY PROCEDURE

Fig. 1	<p><b>FEET</b></p> <p>Assemble the feet on the columns. Tighten screws firmly. Maximum Torque from 3 to 5 lbf·ft.</p> <p><b>IMPORTANT:</b> <b>Make sure the correct screws are used. Using too long screws may destroy internal parts in the column.</b></p>
Fig. 2	<p><b>CROSSBARS</b></p> <p>Attach the crossbars on the long side of the houses. Tighten screws firmly.</p> <p><b>IMPORTANT:</b> <b>Do not use the two middle holes of the crossbars.</b> <b>Do not insert any object in the two middle holes as this can damage electronic components.</b></p> <p>Loosen the button head screws on the crossbars and adjust the frame to desired width. Fasten the screws on the crossbars.</p>
Fig. 3	<p><b>SIDEBARS</b></p> <p>Fasten sidebars in threaded holes on top of crossbars with undercut flat head screws.</p> <p>Two types of sidebars exist, symmetrical for T-leg tables and right/left-handed for C-leg tables.</p>
Fig. 4	<p><b>BUMPERS</b></p> <p>Adhesive rubber bumpers come in two types; thick and thin. The thick bumpers are <b>only</b> used on the adjustable-width crossbars, and are placed on top of the C-channel in the center. Do not use thick bumpers on fixed-width crossbars. The thin bumpers are placed on fixed-width crossbars and should be spaced evenly between the sidebars in order to prevent the work surface from bowing. The work surface will rest upon the bumpers on the crossbars, and directly upon the sidebars (without bumpers).</p> <p><b>WORK SURFACE</b></p> <p>Two sizes of wood screws for the work surface are included in the assembly kit. KR68006557 Screw Phil Pan FT-W P17 10x1" Zn KR68006558 Screw Phil Truss FT-W P17 10x2-1/2" Zn</p> <p>The shorter screws go through the sidebars. The longer screws go through the crossbars.</p> <p><b>IMPORTANT:</b> <b>These wood screws require a minimum of 1" thick work surface.</b></p>
Fig. 5	<p><b>3-COLUMN 90° TABLE, ADJUSTABLE CROSSBARS</b></p> <p>3 regular adjustable crossbars and 1 special adjustable crossbar with an angled C-channel are used.</p>
Fig. 6	<p><b>3-COLUMN 90° TABLE, FIXED CROSSBARS</b></p> <p>3 regular fixed crossbars together with 1 regular fixed crossbar 6" shorter than the other three are used.</p> <p>The assembly procedure is the same as for a 2-column table with the exception that the angled C-channel mounts to the middle house with one extra-long screw 1-3/8".</p> <p>An alternative foot, shaped as a spacer, may be used on the middle column.</p>



*Fig. 7-8*

### **3-COLUMN 120° TABLE**

4 regular adjustable or fixed crossbars are used together with two 120° brackets that attach to the middle column.

The assembly procedure is the same as for a 2-column table. The 120° brackets are attached with bolts and nuts.

*Fig. 9 -11*

### **ELECTRONICS**

The handset is mounted at the front edge of the work surface, screwed to the underside with screws supplied with the unit.

Connect cables and power supply according to fig. 9 - 11

### Troubleshooting guide for Tone Electric and Extended Electric



Some of the proposed actions in this guide should only be performed by a service technician.

End users should not attempt replacing parts.

WARNING: Do NOT sit on base while assembling in progress.

#### Homing



WARNING: Do NOT sit on the table to apply body weight for performing the homing process.

If a table has been reconfigured, or a component (i.e. cable, motor or electronic) has been reconnected or replaced during or after the assembly, a homing cycle must be performed. A homing cycle (sometimes referred to as a table reset) should be performed with an even weight(!) of approx. 100lbs. applied on the table.

#### Initiate a new homing cycle by:

1. Simultaneously pressing the up and down buttons for a minimum of 8 seconds.
2. Press and hold the down button and the table will slowly move the lowest point possible.
3. The table is ready for normal use.

#### 1. Table not running at all

- 1.1.1. Is the green LED on the power supply light on?
  - If not, check main power and cable connections.
- 1.1.2. If the green LED Light is still not on:
  - Replace the power supply.
- 1.2. LED light is on but goes out when trying to operate the table:
  - Try switching power supplies between tables. If the second power supply operates correctly, replace the original power supply.
- 1.2.1. If the problem persists:
  - Replace the column.
- 1.3. If the light on the power supply is lit all the time and still not functioning:
  - 1.3.1. If the table is in the lowest position:
    - Press the "down" button on the handset for 4 seconds to ensure that the table isn't in homing mode.
  - 1.3.2. The table might be overheated if the table has been running for a period of 1 minute and then has come to a halt. Wait 9 minutes to let the table cool down and try again. \*)
    - If it still does not work after 5 min.:
      - Try disconnecting power for about 20 s and reconnect.
    - If there is still no function:
      - Replace handset and check all connected cables.
    - If there is still no function:
      - Replace column.

#### 2. Table running slow

- 2.1. Slow speed both up and down:
  - If possible, measure power consumption on primary side.
- 2.1.1. If power consumption is above 250W:
  - Replace the column.
- 2.1.2. If below 250W:
  - Replace power supply.
- 2.2. Slow speed only while driving up:
  - Remove weight from table top.

### **3. Table moving in one direction only**

- 3.1. Only running down in slow speed:
  - The table is in homing mode. To allow the table to complete the homing cycle, drive all the way down to lowest position to complete the homing cycle.
- 3.2. Only able to drive up or only down, but in normal speed:
  - Initiate a new homing cycle by holding the up and down buttons on the hand control pressed for 8 seconds. Drive the table all the way down to lowest position to complete the homing cycle.
- 3.2.1. Still no function:
  - Replace hand control.
- 3.2.2. Still no function:
  - Replace the column.

### **4. Table only running a short while and then stopping**

- 4.1. The table stops and back off:
  - The table has detected a collision. Check for something blocking the movement, cables, furniture or other objects.
- 4.1.1. If nothing is blocking the movement of the table and the symptom persists:
  - Replace the column.
- 4.2. Only run for 2 seconds:
  - Table might be overloaded, remove weight from table top
- 4.2.1. Green light on power supply OK?
  - If not, replace power supply.
- 4.2.2. Still no function:
  - Replace the column.
- 4.3. Only running for 20 seconds or more:
  - Table might be overheating, wait 9 minutes and try again.

### **5. Table not moving in sync**

- 5.1. Only one motor moving:
  - Disconnect from power, then reconnect all cables.
- 5.2. One motor running uncontrolled and other motor just running 2 inches up or down:
  - Replace the column.
- 5.3. Table moving up and down normally but table top not parallel to floor:
  - Initiate a new homing cycle by holding the up and down buttons pressed at the same time for 8 seconds. Drive the table all the way down to lowest position to complete the homing cycle.

### **6. Table not able to reach top or bottom position**

- 6.1. Table stops above bottom position / not reaching bottom position:
  - Initiate a new homing cycle by holding the up and down buttons pressed at the same time for 8 seconds. Drive the table all the way down to lowest position to complete the homing cycle.
- 6.1.1. Failure to reach lowest position during homing cycle:
  - Replace the column.
- 6.2. Table not reaching top position:
  - Initiate a new homing cycle by holding the up and down buttons pressed at the same time for 8 seconds. Drive the table all the way down to lowest position to complete the homing cycle.
- 6.2.1. Still not reaching top position:
  - Replace the column.

\*) The motor duty cycle is rated 10% at a nominal load of 176 lbs. E.g. if the motor runs a 1 minute cycle, allow 9 minutes for a complete cool off. If the motor is engaged during the cool off period the duty cycle will be reduced until the full cool off period is reached.

### REVISION

#### DO NOT INCLUDE THIS PAGE IN PRINTOUTS

Update document ID and revision on previous page

Document ID: **68004686**

Revision: **H**

Created By: AB

Creation date: 2014-04-22

Revision date: 2017-07-17

<u>Revision</u>	<u>Date</u>	<u>Change</u>	<u>Revised by</u>
Rev A	2014-03-20	New document	AB
Rev B	2014-04-27	Page 2 - 1/4" screw changed to 5/16"	AB
Rev C	2014-05-07	Changes made according to Knoll request +Homing added	AB/PERLOH
Rev D	2014-09-26	Changes made by adding trouble guide.	TONSVE
Rev E	2014-10-01	New name product and black and white text, minor changes	PERLOH
Rev F	2015-03-03	Fig. 3, 79100036 was 68003465	JONLAR
Rev G	2016-04-26	Wood screws Fig.4 changed	LINPHA
		Revised wood screws in Fig. 4, Page 8	
		Revised screw types in Fig. 5, 6, 7 & 8	
		Reworded bumper instructions in Fig. 4, Page 8	
		New bracket outer & inner on Pages 1, 5 & 7	
		Added P-Clips in Fig. 9, 10 & 11 on pages 6 & 7	
		Added warnings on page 10	
		Updated handset drawings on Page 6, updated date in header	
Rev H	2017-07-17	Added Caution Note in page 1	LINPHA
		Added Maximum Torque from 3 to 5 lbf·ft on page 2 & 8	