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FLT-21

User Manual

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Have any queries? Our expert engineers are here to help!



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SAFETY PRECAUTIONS

When installing and using your Progressive Automations table lift, basic safety precautions should always be followed. Please read all safety precautions thoroughly and be familiar with all functions of the product before use. Apply all other relevant precautions when operating electrical and moving mechanical devices.

DANGER

- Ensure no obstacles are in the desk's path. Ensure the tabletop is not touching any walls. Ensure all cords are appropriate length to accommodate the change in height. Avoid using the table lift in environments with explosive gases or flammable materials.
- Keep children away from electric height-adjustable desks, control units, and handsets. There is a risk of injury and electric shock.
- Keep all electrical components away from liquids.
- Do not sit or stand on the table lift. Do not crawl or lie under the table lift.
- Do not place any objects taller than 20" underneath the desk.

WARNING



Pinch Point Keep hands and fingers clear.

- During the Reset Procedure, the desk will retract **7mm below the lowest normal operating height**. Ensure no obstacles impede this motion.

OPERATING NOTES

Warranty

Any attempts to disassemble or tamper with the table lift's internal components or operation outside of the advertised usage limitations will result in voiding the product's warranty. For more information on our warranty terms, visit:

<https://www.progressiveautomations.com/pages/warranty-terms>

Force Restrictions

Table lifts must be used within the specified force rating outlined in this documentation. Load must be evenly distributed. Exceeding the recommended force rating may result in failure of the table lift. It may also damage the product and void the warranty. Please note that the weight of the load does not always equal the total force due to mechanical advantage, wherein the force may increase or decrease depending on the application.

Operation Time

Table lifts must be operated within the specified operation time and frequency. Exceeding the duty cycle rating can significantly reduce the table lift's expected lifespan and will void the warranty.

SPECIFICATIONS

SPECIFICATIONS

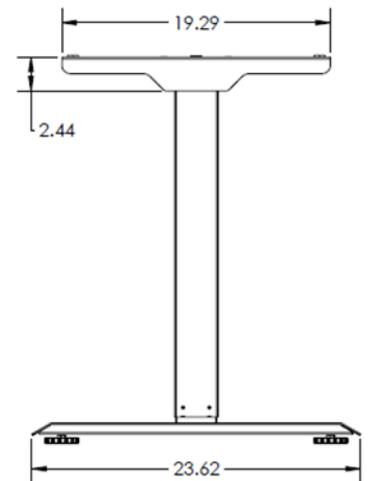
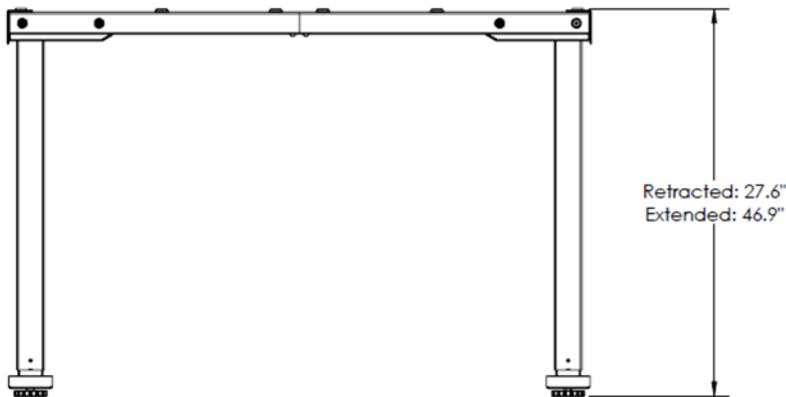
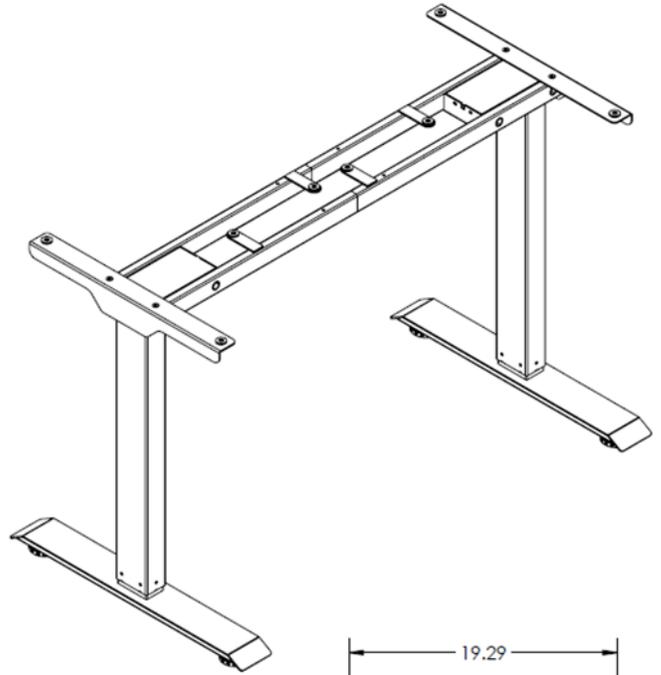
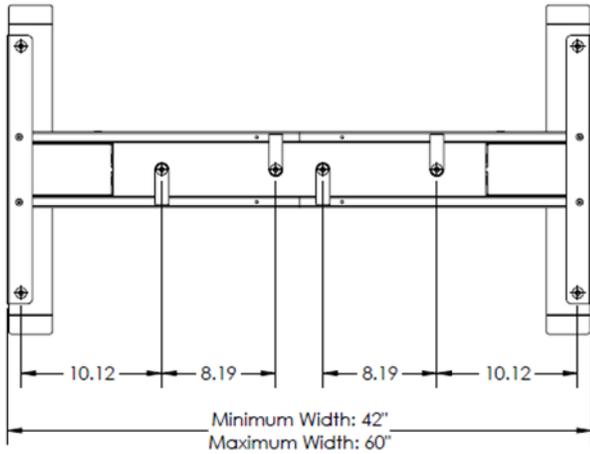
Specification	Description
Input Voltage	100VAC-240VAC
Output Voltage	24VDC
Stroke (movement)	19.3"
Height Range (without tabletop)	27.6" - 46.9"
Base Width	36.7" - 54.7"
Minimum Tabletop Size	42" x 20"
Weight Capacity (load)	220 lbs (evenly distributed)
No Load Speed	1.00"/s
Full Load Speed	0.59"/s
Duty Cycle	10% (2 minutes on, 18 minutes off)
Operating Noise	< 50 dB
Frame Material	Steel
Finish	Powder Coat – White, Black
Leveling	Adjustable Leveling Feet

Features	Description
Collision Detection	Collision Detection will help protect the desk frame against obstructions. There are four sensitivity levels for collision detection. This feature can be disabled by the user.
Programmable Memory Presets	Programmable Memory Presets allow the user to save and recall different desk heights with a single press of a button on the remote.
Safety Lock	Safety Lock can be enabled on the remote to prevent any unwanted adjustments to the table while unattended or to prevent injury to children and animals.

DIMENSIONAL DRAWING

Note: All dimensions are listed in inches.

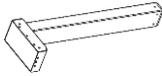
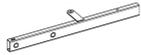
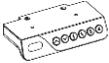
DIAGRAM



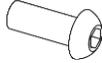
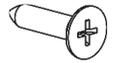
PARTS LIST

⚠ IMPORTANT

The drawings below are for reference only and may be slightly different from the physical product. Please contact us if you have missing or damaged components.

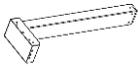
No.	Part	Qty
A1	 Leg	2
A2	 Left Frame End	2
A3	 Right Frame End	2
A4	 Side Bracket	2
A5	 Center Rail	2
A6	 Foot	2
A7	 Remote	1

No.	Part	Qty
A8	 Adaptor Mount	1
A9	 Power Adaptor	1
A10	 Power Cable	1
A11	 Switch Cord	1
A12	 Extension Cord	1
B1	 M6x10 Screws	8
B2	 M6x12 Screws	4

No.	Part	Qty
B3	 M6x16 Screws	8
B4	 ST4.2x25 Tabletop Screws	8
B5	 ST4.2x13	6
B6	 ST4.2x25 Remote Screws	2
B7	 Cable Tie	6
B8	 Allen Key	1

ASSEMBLY & INSTALLATION

STEP 1: LEG AND FRAME END ASSEMBLY



A1 (x2)
Leg



A2 (x2)
Left Frame End



A3 (x2)
Right Frame End

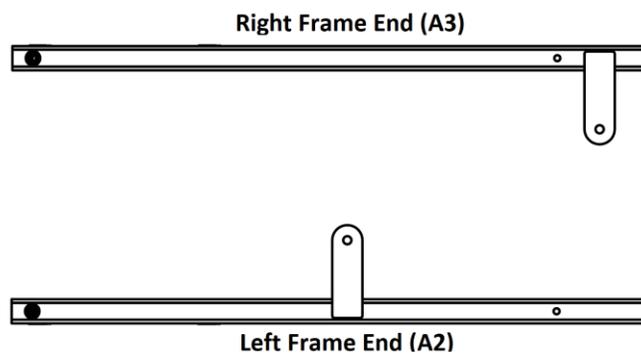


B1 (x8)
M6x10 Screws

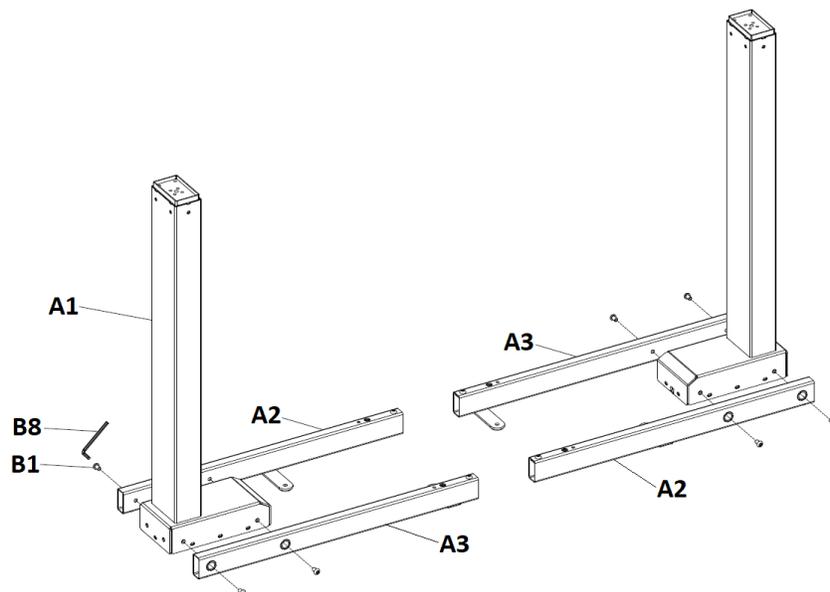


B8 (x1)
Allen Key

- Place 1x Leg (A1) vertically with the motor side facing down.
- Identify the Left Frame Ends (A2) and Right Frame Ends (A3). The Left Frame End has a tabletop mounting flange in the middle. The Right Frame End has a tabletop mounting flange near the end.



- Attach Left Frame End (A2) to the left side of Leg (A1) using 2x M6x10 Screws (B1). Tighten with the Allen Key (B8).
- Attach Right Frame End (A3) to the right side of Leg (A1) using 2x M6x10 Screws (B1). Tighten with the Allen Key (B8).
- Repeat this process for the second leg.



STEP 2: ATTACH SIDE BRACKET



A4 (x2)
Side Bracket

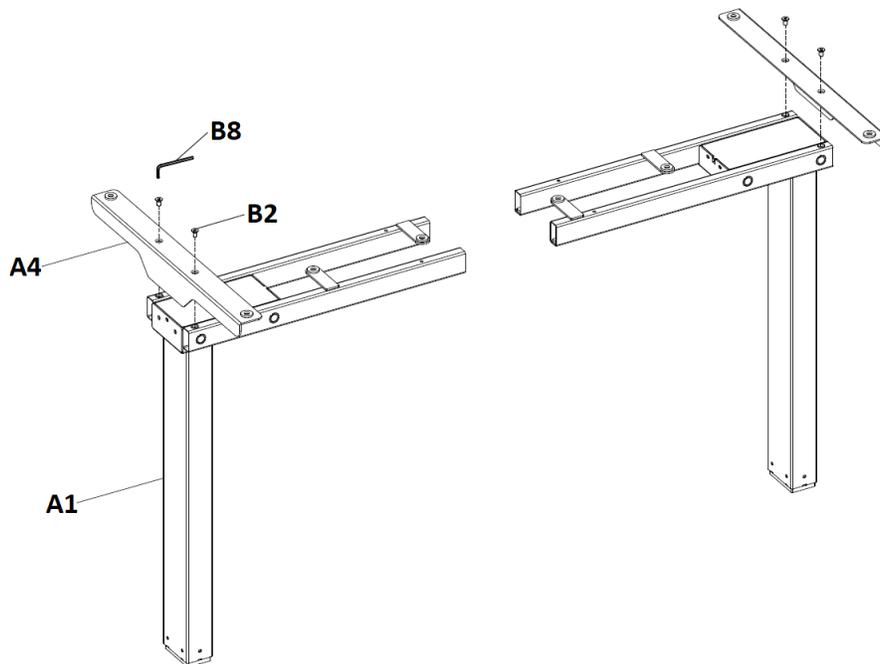


B2 (x4)
M6x12 Screws



B8 (x1)
Allen Key

- Flip the assembly from Step 1
- Align 1x Side Bracket (A4) to the Leg and Frame End assembly.
- Use the Allen Key (B8) to secure the Side Bracket (A4) with 2x M6x12 Screw (B2).
- Flip the assembly back so the motor side is facing down.
- Repeat this process with the other Leg and Frame End assembly.



STEP 3: INSTALL CENTER RAILS

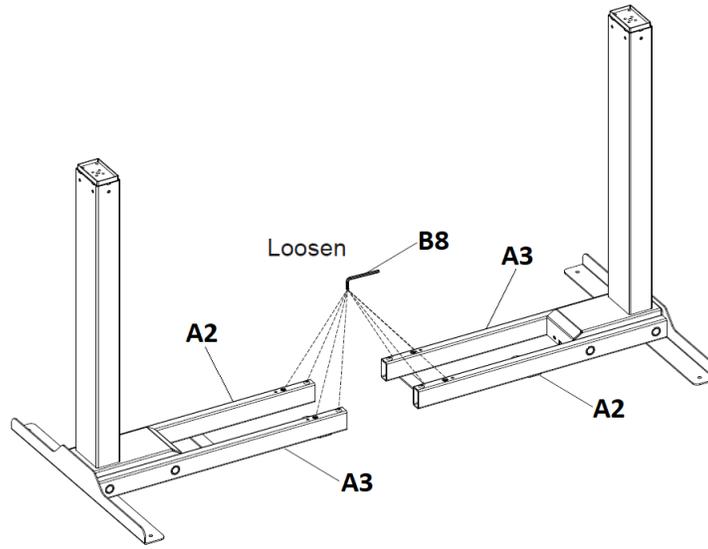


A5 (x2)
Center Rail

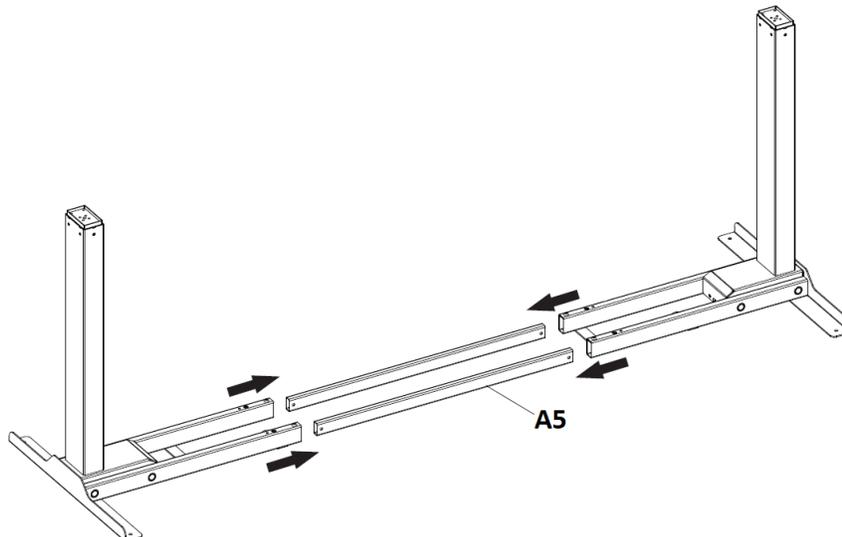


B8 (x1)
Allen Key

With the Allen Key (B8), loosen the preinstalled screws at the center of all Frame Ends (A2 and A3).



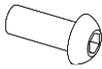
Insert Center Rail (A5) into the Left and Right Frame Ends (A2 and A3). Do not tighten the screws to allow size adjustment in a later step.



STEP 4: ATTACH FEET



A6 (x2)
Foot

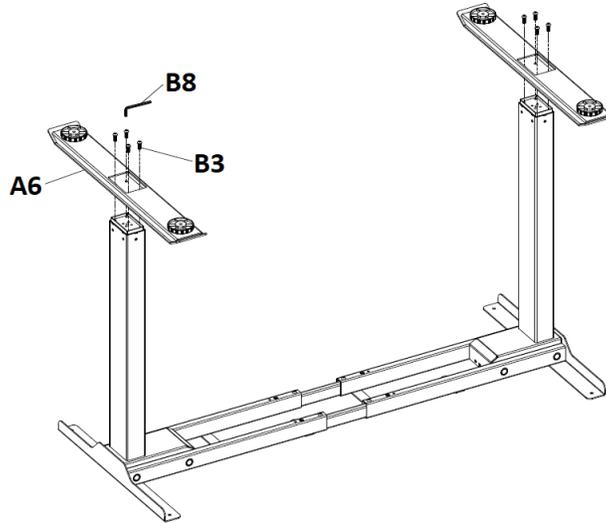


B3 (x8)
M6x16 Screws



B8 (x1)
Allen Key

- Attach 1x Foot (A6) to Leg (A1) using 4x M6x16 Screws (B3). Tighten the screws with the Allen Key (B8).
- Repeat for second Leg (A1).

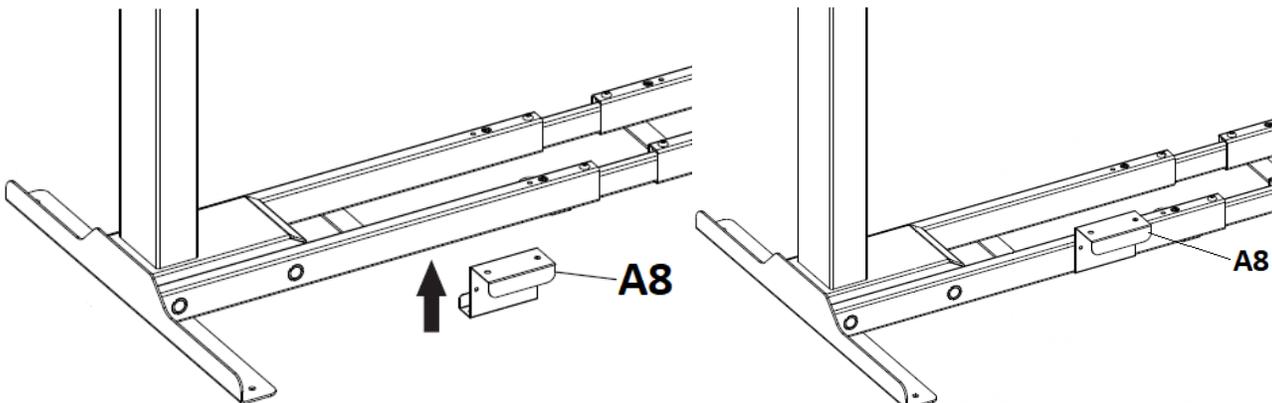


STEP 5: SECURE DESK FRAME TO TABLETOP



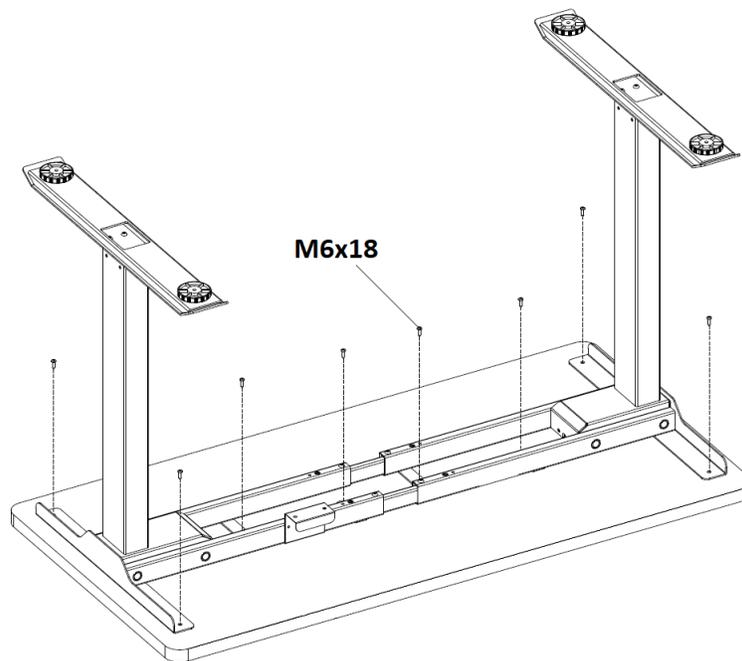
A8 (x1)
Adaptor Mount

Hook the Adaptor Mount (A8) under the frame nearest to where you would like to mount the remote.

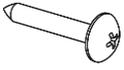


FOR PROGRESSIVE DESK TABLETOPS

- Place the Progressive Desk Tabletop on a soft flat surface with the threaded inserts facing upwards. If you have a hard surface, place the foam sheet included in the tabletop packaging on the surface to protect your tabletop.
- Place the desk frame on top of the tabletop. Make sure the motor cords attached to the Legs (A1) are not pinched between the frame and the tabletop.
- Align the holes of the desk frame to the holes on the tabletop.
- Use the 8x M6x18 screws included with the tabletop to secure the tabletop to the desk frame and tighten using the Allen Key included with your tabletop.
- Ensure the Center Rails (A5) are centered between the Frame Ends (A2, A3). All preinstalled screws in the center must be able to contact the Center Rails (A5).
- Use Allen Key (B8) to tighten the preinstalled screws on the Frame Ends (A2, A3) to secure the Center Rails (A5).



FOR THIRD-PARTY TABLETOPS

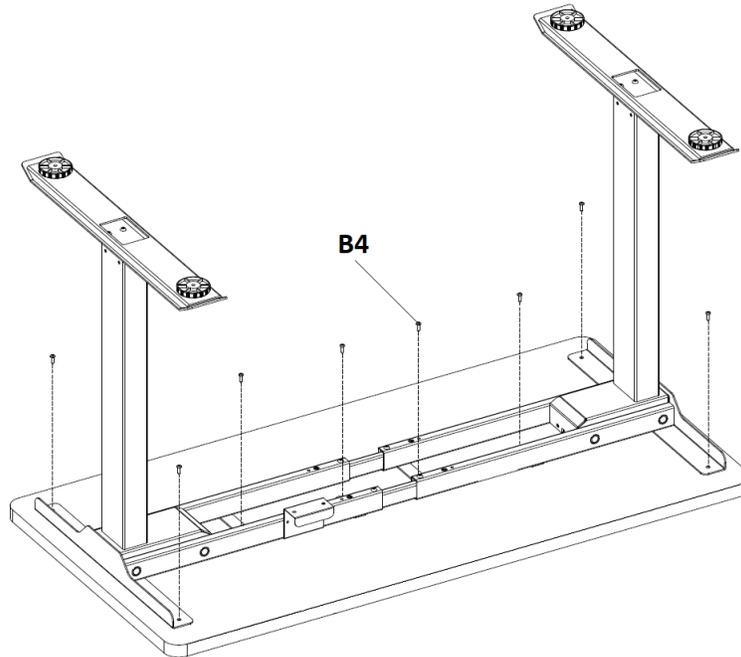


B4 (x8)

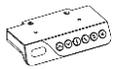
ST4.2x25

Tabletop Screws

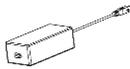
- Place the desk frame on top of the tabletop at your desired location. Make sure the motor cords attached to the Legs (A1) are not pinched between the frame and the tabletop.
- Make sure the frame width does not exceed the maximum frame width of 60".
- Using a screwdriver (Not included), screw in and tighten 8x ST4.2x25 Screws (B4) into the 8 holes located on the frame. DO NOT overtighten the screws.
- Ensure the Center Rails (A5) are centered between the Frame Ends (A2, A3). All preinstalled screws in the center must be able to contact the Center Rails (A5).
- Use Allen Key (B8) to tighten the screws on the Frame Ends (A2, A3) to secure the Center Rails (A5).



STEP 6: INSTALL REMOTE AND CONNECT CABLES



A7 (x1)
Remote



A9 (x1)
Power Adaptor



A10 (x1)
Power Cable



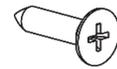
A11 (x1)
Switch Cord



A12 (x1)
Extension Cord



B5 (x6)
ST4.2x13



B6 (x2)
ST4.2x25



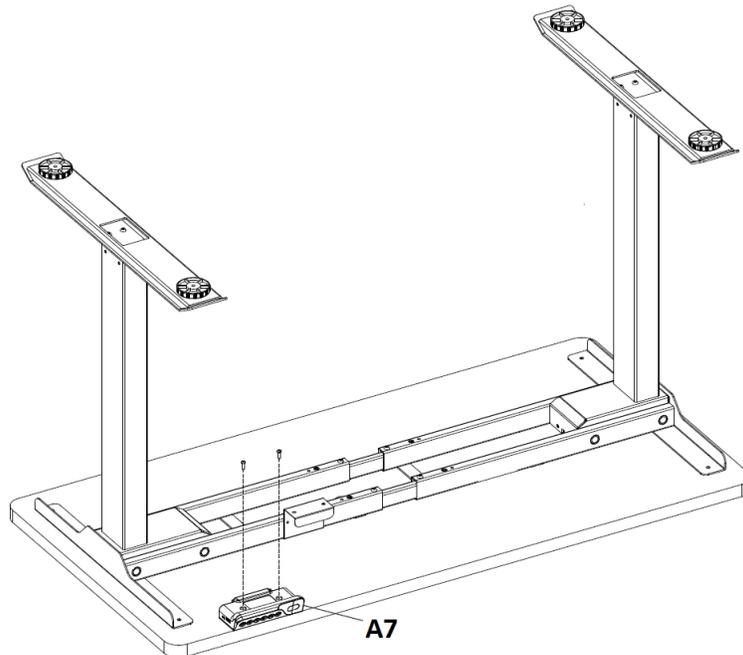
B7 (x6)
Cable Tie

Self-Drilling Screws (B5, B6)

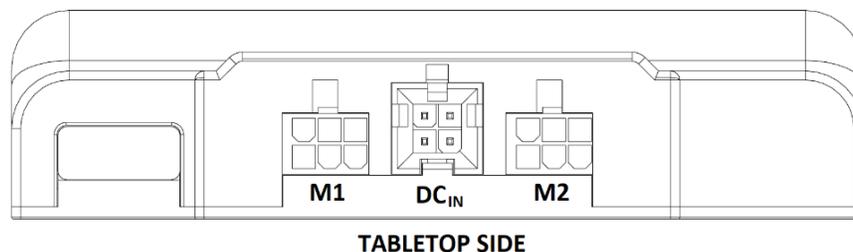
Hard Materials: It is recommended that an Electric Driver is used to install the Self-Drilling Screws (B5, B6) into any Hardwood, Bamboo, Epoxy Tabletops or similar.

Soft Materials: Do NOT use an Electric Driver for softer tabletop materials like Medium Density Fiberboard (MDF), Particle Board or similar. Use Hand Screwdriver to install the Self Drilling Screws (B5, B6) into the tabletop.

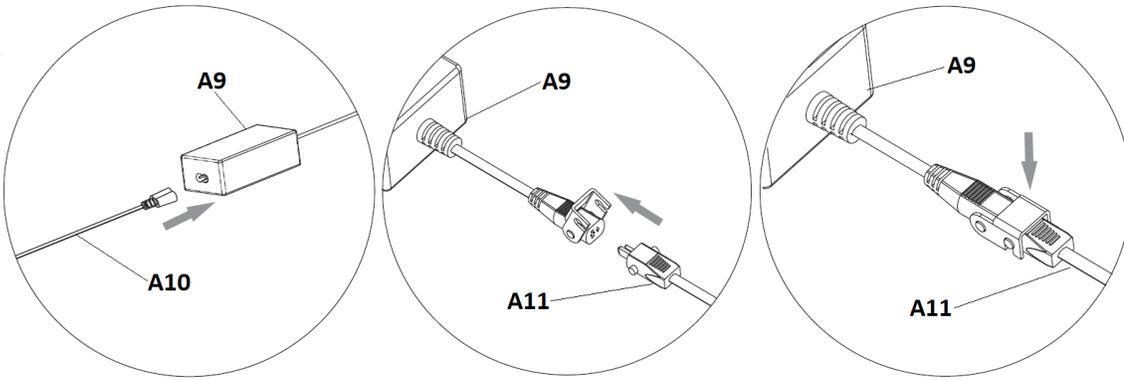
- Place the Remote (A7) at your desired location.
- Install the remote using 2x ST4.2x25 screws (B6).



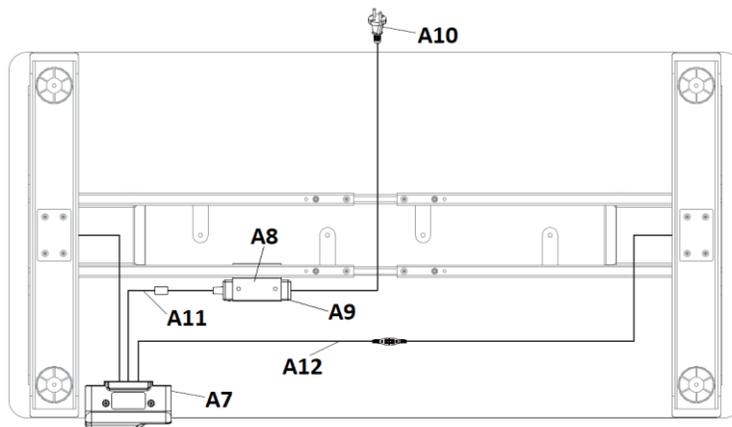
- Connect the cables from both Legs (A1) to the M1 and M2 ports on Remote (A7). If a leg cable is not long enough to reach the Remote (A7), connect the Extension Cord (A12) to extend the cable length.



- Connect Power Cable (A10) and Switch Cord (A11) to Power Adaptor (A9).



- Slide the Power Adaptor (A9) into Adaptor Holder (A8).
- Plug the Switch Cord (A11) into the DCIN port on Remote (A7).

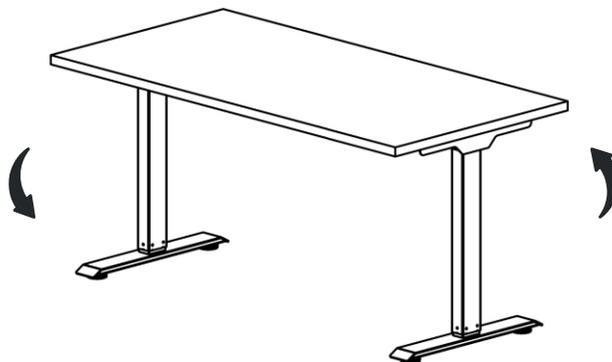


- Organize the cables as needed using the Cable Ties (B7). ST4.2x12 Screws (B5) can be used to secure Cable Clips (B7) onto tabletop.

STEP 7: FLIP DESK FRAME UPRIGHT

Recommended to proceed with two people for this step.

- Flip the fully assembled desk by the desk frame (NOT by the tabletop).
- Adjust the pre-installed glides on the feet to level the desk frame if necessary.
- It is required to complete the Reset Procedure (Page 15) before operating the desk frame.



OPERATIONS

REMOTE BUTTONS

Remote Button	Control
	Press and hold to move desk frame up
	Press and hold to move desk frame down
	Memory Position 1 - Press once and the desk will travel to the saved position.
	Memory Position 2 - Press once and the desk will travel to the saved position.
3	Memory Position 3 - Press once and the desk will travel to the saved position.
4	Memory Position 4 - Press once and the desk will travel to the saved position.

RESET PROCEDURE

WARNING: Make sure there are no obstructions in the path of the desk frame. Release the button to stop motion at any time if needed.

Step 1: Using the down button (▼), adjust the desk frame to the lowest position.

Step 2: To initiate the Reset Procedure, press and hold the down button (▼) on the remote and wait for “rSt” to display on the LED screen. Do not release the button.

Step 3: Continue to hold the down button (▼) until the desk frame “bounces up”. The frame will move down slightly and go back to the previous height and the display will show the current height. The reset procedure is complete.

If the reset procedure does not work, disconnect from power, and wait 10 seconds. Then reconnect and perform the Reset Procedure again.

MEMORY POSITION

Step 1: Move your desk to the desired height using the up and down buttons.

Step 2: Press and hold the desired memory positions button (1, 2, 3, or 4) until the display shows “S-1”, “S-2”, “S-3”, or “S-4” respectively. The position is now saved to the corresponding button.

Step 3: Press the saved memory position button to move the desk to the saved height.

ANTI-COLLISION SENSOR LEVEL ADJUSTMENT

Simultaneously press and hold the “▲” and “▼” buttons for 5 seconds to cycle through the anti-collision sensor sensitivity.

Display	Sensitivity Level
A-0	Anti-collision function is turned off
A-1	Anti-collision sensitivity is set to low
A-2	Anti-collision sensitivity is set to medium
A-3	Anti-collision sensitivity is set to high

SAFETY LOCK

When Safety Lock is enabled, the remote will no longer be responsive to user input until the function is disabled.

Turn on Safety Lock Function:

Simultaneously press and hold the  and  buttons for 3 seconds or until “LOC” or “LoC” appears on the display. Safety lock function is now enabled.

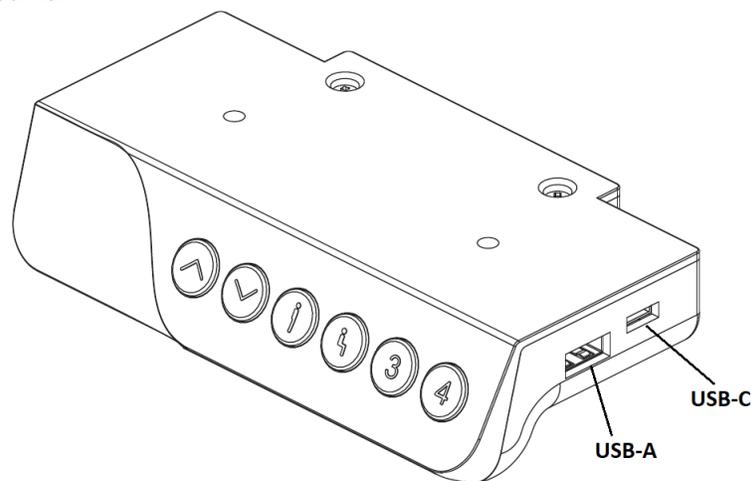
Turn off Safety Lock Function:

Simultaneously press and hold the  and  buttons for 3 seconds or until the display shows the current table height. Safety Lock function is now disabled.

QUICK CHARGE

The remote’s quick charge feature is compatible with most mainstream smartphones and laptops that allow for quick charging. (Apple devices excluded)

While the remote is being used to control the desk frame, the charging function will turn off. Once the remote is not in use, the charging function will resume.



Output Parameters:

USB-C: Max 45W, 5V 3A, 9V 3A, 12V 3A, 15V 3A, 20V 2.25A

USB-A: Max 27W, 5V 2A, 9V 2A, 12V 1.5A, 15V 1.8A, 20V 0.9A

When devices are connected to both USB-C and USB-A ports, the output voltage drops to 5V to power the devices with a maximum power of 22.5W.

Quick Charge Built-in Safety:

Remote quick charge includes over-temperature protection, over-current protection, short-circuit protection, output interface current-limiting protection, etc.

TROUBLESHOOTING

Common Problems

Problem	Possible Cause	Corrective Action
Table lift does not move when motion control buttons are pressed.	Connection issue	Disconnect and reconnect the cables to the remote. Ensure the cables are not damaged and that all connections are secure.
Table lift travels significantly slower than the rated speed.	Weight issue	Ensure weight capacity has not exceeded the maximum load rating.
The table lift is drifting downwards.	Weight issue	Ensure weight capacity has not exceeded the maximum load rating.
Unusual noise during travel.	Weight issue	Ensure weight capacity has not exceeded the maximum load rating.
The table lift stops abruptly during travel.	Obstacle	Ensure there are no obstacles in the path of the table lift. If the movement continues to fail, initiate the Reset Procedure (Page 15).
Desk Frame is not level.	Out of sync	Disconnect and reconnect all cables (Power cable and Leg Motor cables). Initiate the Reset Procedure (Page 15).

Error Codes (Remotes with Height Display)

Error Code	Error Summary	Description
E01	Overworked	The table lift is overworked and needs to cool down. Wait 18 minutes then try operating again. Perform the Reset Procedure (Page 15) if the issue persists.
E02		
E03	Overloaded	The table lift is overloaded. Lessen the load then press “▼” until “rSt” appears on the display. If “rSt” does not appear on the display, perform Reset Procedure (Page 15).
E04		
E07	Motor or Remote Error	<p>There is a problem with the motor or remote. To confirm whether the motor or the remote has a problem, switch the connection between the motors and the M1 and M2 ports on the remote.</p> <p>If there is no change in the displayed error code, there is a problem with the port on the remote.</p> <p>If there is a change to the error code:</p> <ul style="list-style-type: none"> E07, E20, or E22 is displayed, the error is for the motor connected to the M1 port. E08, E21, or E23 is displayed, the error is for the motor connected to the M2 port.
E08		
E20		
E21		
E22		
E23		
E24		
E20	Motor Error	The motor requires a reset. Perform the Reset Procedure (Page 15).
E30	Sensor Error	Sensor error. Disconnect from power and wait 18 minutes. Then, perform the Reset Procedure (Page 15).