Height Adjustable Tables

RWFS-TS-ET3 90.014.01.0255v.E



CAUTION / INFORMATION



Make sure no obstacles are in the desk's path. Make sure the desktop is not touching any walls. Make sure all cords are appropriate length to accommodate the change in height.







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 desk frame. Do not crawl or lie under the desk frame.





Do not place any objects taller than 20" underneath the desk.





Do not open any of the components - the Legs, Control Box, or Switch. There is a danger of electric shock.





This product is designed with a duty cycle of 10% 12 min. on, 18 min. off).





In the event of a power outage or if the power cord is unplugged, a manual reset may be necessary - see USE section.



USE / LIABILITY

This height adjustable desk has electric motors and is designed for use in dry work areas only.

The desk height is adjustable so that it can be positioned at the most ergonomically suitable height.

Any other use is at user's risk.

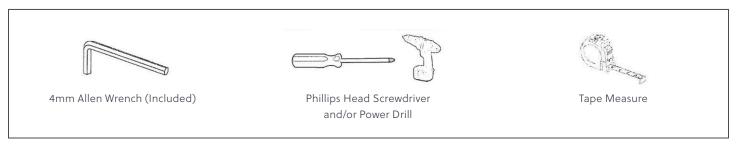
Under no circumstances does the manufacturer accept warranty claims or liability claims for damages caused from improper use or handling of the desk frame.

IMPORTANT:

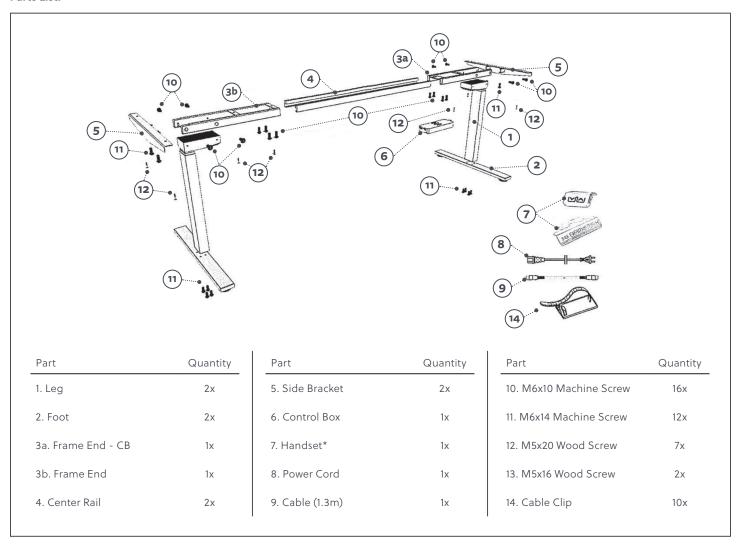
Please read this manual carefully. If this desk is sold, please provide this manual to the buyer.

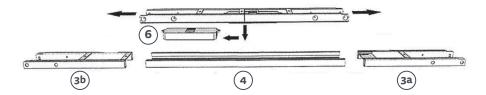
ASSEMBLY

Tools Required:



Parts List:





- 1. Lay out all components and hardware to ensure that you have all the components and hardware listed on the parts page. Slide the Control Box (part 6) off the Frame End-CB (part 3a) and set aside. Fully separate Frame End (part 3b) from Frame End-CB (part 3a). You will find the Center Rails (part 4) inside.
- 2. Place one of the Legs (part 1) into the Frame End-CB (part 3a) ensuring the bar (arrow) is on "top" in relation to the Leg (part 1).

Line up the holes on the Leg (part 1) with the holes on the Frame End-CB (part 3a).

Using the supplied Allen Wrench, insert (4) M6x10 Machine Screws (part 10) through the holes in the Frame End-CB (part 3a), going into the Leg (part 1) and rotate each screw just a few turns. After all four (4) M6x10 Machine Screws (part 10) are inserted, tighten all four (4) screws.

(3a)

Do the same for the other Leg (part 1) and the Frame End (part 3b).

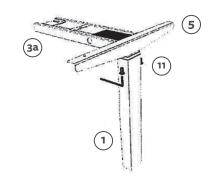
i If you drop a screw inside the frame end, simply tilt to retrieve.



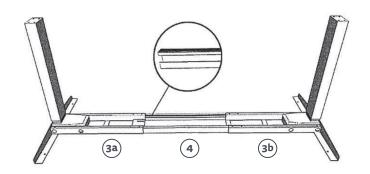
3. The Frame End-CB (part 3a) should be placed on the side of the desk where you plan to mount the Control Box (part 6) and the Handset (part 7).

Slide the Side Bracket (part 5) into the Frame End-CB (part 3a). Insert two (2) M6x14 Machine Screws (part 11) through two (2) holes in the bottom of the Frame End (part 3a) going into the inserted Side Bracket (part 5). Using the supplied Allen Wrench, rotate each screw just a few turns. After both M6x14 Machine Screws are inserted, tighten both screws.

Do the same for the other frame end/leg assembly.



- 4. Slide the two (2) Center Rails (part 4) into the two Frame Ends (part 3a & 3b) ensuring:
- a. The slots in the Center Rails (part 4) face inward.
- b. The slots in the Center Rails (part 4) are closer to the top edge when the assembly is upside down (see inset).

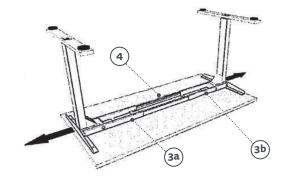


5. For each leg assembly, attach a Foot (part 2) with four (4) M6x14 Machine Screws (part 11) and tighten in a cross-pattern.



6. Your desktop may or may not be pre-drilled. Check both sides of the desktop before placing the desk base on the underside of the desktop.

Adjust the width of the desk base to fit the desktop by sliding the two halves outward. We recommend leaving at least 1/2" of the desktop width (on each end) protruding beyond the frame width and centering the Side Brackets (part 5) fore and aft.



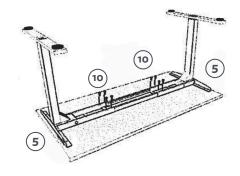
7. If the desktop is pre-drilled, perform Step 8 before Step 7.

If the desktop is not pre-drilled, lock the position of the Center Rails (part 4) using eight (8) M6x10 Machine Screws (part 10).



Ensure that the M6x10 Machine Screws (part 10) contacts the Center Rails (part 4) by sliding the Center Rails (part 4) as needed.







Double-check that the wood screws are not too long for your desktop and won't puncture the surface when screwed all the way in.





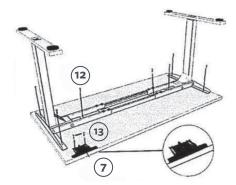
We recommend that you pre-drill any holes needed for fasteners if your desktop is not pre-drilled. Never use countersunk screws.



8. Double check that the desk base is properly positioned on the underside of the desktop.

Attached the desk base to the underside of the desktop using seven (7) M5x20 Wood Screws (part 12).

Attach the Handset (part 7) so the front of the handset is flush with the front desktop edge (or recessed up to 1/8"). The Handset may be placed anywhere along the front edge of the desktop but we recommend placing it toward an end so it does not interfere with your chair when seated. Use two (2) M5x16 Wood Screws (part 13) to attach the handset to the desktop.





Ensure that the M6x10 Machine Screws (part 10) contacts the Center Rails (part 4) by sliding the Center Rails (part 4) as needed.



ASSEMBLY

9. Slide the Control Box (part 6) onto the Frame End-CB (part 3a).

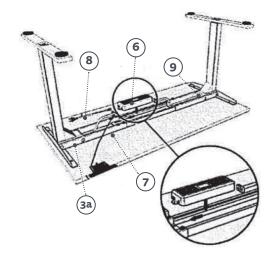
Connect the cable exiting the leg (part 1) that is attached to the Frame End-CB (part 3a) directly into the Control Box (part 6).

Connect the Cable (part 9) to the other Leg (part 1) and to the Control Box (part 6).

Connect the Handset (part 7) cable to the Control Box (part 6).

Connect the Power Cord (part 8) to the Control Box (part 6).

Use the adhesive-backed Cable Clips (part 14) to secure the cables so they do not sag.



10. Turn the assembled desk right-side up. With at least two people, grab the DESK BASE (not the desktop) and turn the desk right-side up. Adjust the pre-installed glides on the Feet (part 2) as needed.

11. Plug the Power Cord (part 8) into a 110v outlet.

USE



Make sure no obstacles are in the desk's path. Make sure the desktop is not touching any walls. Make sure all cords are appropriate length to accommodate the change in height.



IMPORTANT: You must reset desk prior to use.

RESET PROCEDURE: Press and hold the DOWN button on the Handset (part 7) until the desk reaches is lowest height. Release the DOWN button. Press and hold the DOWN button again until the LED display reads "RST" or about 10 seconds on non-LED handset models. Release the DOWN button. Press and hold the DOWN button again until the desk lowers a little bit more, slightly rises and stops. Release the DOWN button. Your desk is now ready to use.

The desk and base can be adjusted by press and holding either the UP or DOWN button until the desired height is reached.

To program up to four presets (on some models): Use the up/down buttons to find a desired height, then press "M" followed by a number 1 - 4.

CAUTION: Once a preset button is pushed, the desk will move to the programmed height (see caution box above).

TROUBLE SHOOTING

If your desk is not functioning properly it may need to be reset. Follow the RESET procedure outlined in the USE section.

If your desk has a handset with an LED readout and it displays "RST" (reset), perform the reset procedure outlined in the USE section.

If the LED readout displays an error message ("Er1" - "Er13") confirm that all wired connections are secured (legs to cables, cables to control box). Then perform the reset procedure outlined in the USE section.

If the error message persists after the reset procedure, contact your seller.

If the height between the legs exceeds 1.5 inches, stop the reset procedure and contact your seller.

If the handset displays "HOT", let the base cool down for 20 minutes.

SPECIFICATIONS

Height Range	23.5" - 49" (without desktop)
Base Width	42" min - 74" max
Travel Speed	1.5" per second (no load)
Load Capacity	1000N
Duty Cycle	10% Max. 2 mins on, 18 mins off.
	Soft start/stop
	Adjustable leveling studs
	4 memory presets (some models)

PROGRAMMING*

Press the DOWN button on the Handset (part 7) until the base reaches its lowest position. Press and hold the DOWN button again until the LED displays reads "RST".

Press and hold the 1 button (about 5 seconds) while the LED flashes "RST" and then switches to either:



10.1 = One-Touch

10.2 = Constant-Touch

Release the 1 button. Press the 1 button again until the desired setting is reached. Once the chosen setting is displayed, release the button and wait about 5 seconds for the display to return to "RST".

Finish the reset process by pressing and holding the DOWN button until the desk lowers a little bit more, slightly rises and stops. Release the button. The new program setting is saved and your desk is now ready to use.

*Option only available on select models.

SETTING THE LED RETRACTED HEIGHT'

Press the DOWN button on the Handset (part 7) until the base reaches its lowest position. Measure the distance from the floor to the top surface of the desktop. If the number on the LED display does NOT match your measurements, follow these steps:

Press and hold the DOWN button until the LED display reads "RST":

Press and hold the "M" button (about 5 seconds) until the LED displays the flashing height. If the display returns to "RST" before the next step is taken, repeat this step. Use the UP/DOWN buttons to change the value of the starting height so that it matches your measurement. Wait about 5 seconds and the display will return to "RST".

Finish the reset process by pressing and holding the DOWN button again until the desk lowers a little bit more, slightly rises and stops. Release the button. The new starting height value is saved and your desk is now ready to use.

Note: the LED display has a ±0.1 tolerance.

*Option only available on select models.

SETTING THE UPPER & LOWER LIMITS*

The base is designed to go its minimum and maximum heights, allowing for the widest possible range. If you prefer to change the settings to a more narrow range, follow these steps:

Make sure the power is ON and a number reads in the LED display (if no number appears, please follow the Reset procedure described in the USE section).

To Se the Upper-Limit Position:

Use the UP/DOWN buttons to move the base to the desired maximum-height position. Press the "M" button and release. Press the UP button and release. The LED display will flash "S-". Press and hold the "M" button (about 2 seconds) until the LED display changes to "999". The display will automatically return to the selected height. The new upper limit is now set.

To Set the Lower-Limit Position:

Use the UP/DOWN buttons to move the base to the desired minimum-height position. Press the "M" button and release. Press the DOWN button and release. The LED display will flash "S-". Press and hold the "M" button (about 2 seconds) until the LED display changes to "000". The display will automatically return to the selected height. The new lower limit is now set.

To Remove the Upper/Lower Limit Position:

Press and hold the "M" button until the LED display flashes "S-" and then release it. Within 5 seconds, press the "M" button again and hold for 2 seconds. The LED display will change to "555" and then automatically return to the height display. The upper and lower limits are now removed.



A RESET procedure requires the desk base to full retracts (beyond any lower limit set). Please ensure that you have the proper clearance below the desk base.



After the upper and lower limits are set, the previous memory positions (1,2,3,4) may be outside the new range of movement. If so, simply reset the memory positions.

If you attempt to revise a previously set upper or lower limit and it is outside of the existing range, you will need to remove the previously set upper/lower limits first.

*Option only available on select models.

HANDSET LOCK*

To	loc	k t	he	han	dset:

Press and hold the "M" button (about 8 seconds) until the LED display switches to "S-" and then to "LOC". Release the button.

To unlock the handset:

Press and hold the "M" button (about 8 seconds) until the LED switches from "LOC" to the height display. Release the button.

*Option only available on select models.

CHANGING INCHES TO CENTIMETERS*

Press the DOWN button on the Handset (part 7) until the base reaches its lowest position. Press and hold the DOWN button again until the LED
display reads "RST":

Press and hold the 2 button (about 5 seconds) while LED flashes "RST" and then switches to either:

10.3 = centimeters

10.4 = inches

Release the 2 button. Press and hold the 2 button again until the desired setting is reached. Once the chosen setting is displayed, release the button and wait about 5 seconds for the display to return to "RST".

Finish the reset process by pressing and holding the DOWN button until the desk lowers a little bit more, slightly rises and stops. Release the button. The new measurement setting is saved and your desk is now ready to use.

*Option only available on select models.

CHANGING ANTI-COLLISION SENSITIVITY*

Press the DOWN button on the Handset (part 7) until the base reaches its lowest position. Press and hold the DOWN button again until the LED display reads "RST":



Press and hold the UP button (about 5 seconds) while the LED flashes "RST" and then switches to either:

10.5 = 10kg pressure (most sensitive)

10.6 = 15kg pressure (middle setting)

10.7 = 20kg pressure (least sensitive)

Release the UP button. Press and hold the UP button again until the desired setting is reached. Once the chosen setting is displayed, release the button and wait about 5 seconds for the display to return to "RST".

Finish the reset process by pressing and holding the DOWN button until the desk lowers a little bit more, slightly rises and stops. Release the button. The new anti-collision sensitivity setting is saved and your desk is now ready to use.

Before performing any troubleshooting steps, be sure the outlet is working and the following connections are secu	ure:
Handset cable to control box Cables to control box Lifting columns to cables Power cord to control box	
Note: Once you begin the troubleshooting process, do no make any undirected changes to cable positions.	
Troubleshooting Steps: (Please mark the boxes as appropriate; result key on last page)	
1. Is the handset equipped with an LED read-out?	Yes - Go to Step 2 No - Go to Step 12
2. Is the LED read-out illuminated (after any button is pushed)?	Yes - Go to Step 3 No - Go to Result 1
3. Does the handset say "HO1"?	Yes - Go to Result 1 No - Go to Step 4
4. Does the handset say "RST" or "Er01 - Er13"?	Yes - Go to Step 5 No - Go to Result 2
5. (A) Perform a system reset (B) Is the desk working properly?	Yes - You're done! No - Go to Step 6
6. Does the handset still show "RST"?	Yes - Go to Result 2 No - Go to Step 7
7. (A) Does the handset show "Er01" or "Er07"? (B) Does the handset show "Er02" or "Er08"?	Yes (A) - Go to Step 8 Yes (B) - Go to Step 10
 8. (A) Write the error message here: (B) Swap the cables in control box port M1 and M2 (C) Do a system reset (D) Write the new error message here: (E) Did the error message change between Steps 8A and 8D? 	Yes - Go to Step 9 No - Go to Result 2

 9. (A) Rewrite the 8D error message here: (B) Make a full swap of the cables, switching both the ports (M1 and M2) and the lifting columns (C) Do a system reset (D) Write the new error message here: (E) Did the error message change between Steps 9A and 9D? 	Yes - Go to Result 3 No - Go to Result 4
 10. (A) Write the error message here: (B) Swap the cables in control box ports M1 and M2 (C) Do a system reset (D) Write the new error message here: (E) Did the error message change between Steps 10A and 10D? 	Yes - Go to Step 11 No - Go to Result 2
 11. (A) Write the 10D error message here: (B) Make a full swap of the cables, switching both the ports (M1 and M2) and the lifting columns (C) Do a system reset (D) Write the new error message here: (E) Did the error message change between Steps 11A and 11D? 	Yes - Go to Result 3 No - Go to Result 4
12. (A) Do a system reset (B) Is the problem resolved? (C) Is the whole desk immobile? (D) Is one leg immobile or lagging?	Yes (B) - You're done! Yes (C) - Go to Result 2 Yes (D) - Go to Step 13
13. (A) Follow the cable from the lagging leg to the control box port(B) Is it connected to M1?(C) Is it connected to M2?	Yes (B) - Go to Step 14 Yes (C) - Go to Step 16
14. (A) Swap the cables in control box ports M1 and M2 (B) Do a system reset (C) Is the lagging leg now plugged into M2?	Yes - Go to Step 15 No - Go to Result 2
15. (A) Make a full swap of the cables, switching both at the ports (M1 and M2) and the lifting columns(B) Do a system reset(C) Is the lagging leg now plugged into M1?	Yes - Go to Result 3 No - Go to Result 4
16. (A) Swap the cables in control box ports M1 and M2 (B) Do a system reset (C) Is the lagging leg now plugged into M1?	Yes - Go to Step 17 No - Go to Result 2
17. (A) Make a full swap of the cables, switching both at the ports (M1 and M2) and the lifting columns (B) Do a system reset (C) Is the lagging leg now plugged into M2?	Yes - Go to Result 3 No - Go to Result 4

Troubleshooting Results:

Result 1:

You have exceeded the 10% duty cycle and the desk is overheated. Wait 20 minutes and the desk should resume normal operation.

Result 2:

Replace the control box.

Fill in the M.D. # from the control box here:

Result 3:

Replace the cable.

If directed to this result from 9E or 15C, replace the cable connected to port M1.

If directed to this result from 11E or 17C, replace the cable connected to port M2.

Result 4:

Fill in the M.D. # from the Lifting Column here:

Fill in the color of the Lifting Column here:

If directed to this result from 9E or 15C, replace the lifting column connected to port M2.

If directed to this result from 11E or 17C, replace the lifting column connected to port M1.

Use the space below to communicate any important notes about the trouble shooting process, and/or list any parts missing or damage for which replacements are requested:

Before performing any troubleshooting steps, be sure the outlet is working and the following connections are secure:	
Handset cable to control box Cables to control box Lifting columns to cables Power cord to control box	
Note: Once you begin the troubleshooting process, do no make any undirected changes to cable positions.	
Troubleshooting Steps: Please mark the boxes as appropriate; result key on last page)	
. Is the handset equipped with an LED read-out?	Yes - Go to Step 2 No - Go to Step 14
2. Is the LED read-out illuminated (after any button is pushed)?	Yes - Go to Step 3 No - Go to Result 2
3. Does the handset say "HO1"?	Yes - Go to Result 1 No - Go to Step 4
1. Does the handset say "RST" or "Er01 - Er13"?	Yes - Go to Step 5 No - Go to Result 2
5. (A) Perform a system reset (B) Is the desk working properly?	Yes - You're done! No - Go to Step 6
5. Does the handset still show "RST"?	Yes - Go to Result 2 No - Go to Step 7
7. (A) Does the handset show "Er01" or "Er07"? (B) Does the handset show "Er02" or "Er08"? (C) Does the handset show "Er03" or "Er09"?	Yes (A) - Go to Step 8 Yes (B) - Go to Step 10 Yes (C) - Go to Step 12
3. (A) Write the error message here: (B) Swap the cables in control box port M1 and M2 (C) Do a system reset (D) Write the new error message here: (E) Did the error message change between Steps 8A and 8D?	Yes - Go to Step 9 No - Go to Result 2

 9. (A) Rewrite the 8D error message here: (B) Make a full swap of the cables, switching both the ports (M1 and M2) and the lifting columns (C) Do a system reset (D) Write the new error message here: (E) Did the error message change between Steps 9A and 9D? 	Yes - Go to Result 3 No - Go to Result 4
 10. (A) Write the error message here: (B) Swap the cables in control box ports M2 and M3 (C) Do a system reset (D) Write the new error message here: (E) Did the error message change between Steps 10A and 10D? 	Yes - Go to Step 11 No - Go to Result 2
 11. (A) Write the 10D error message here: (B) Make a full swap of the cables, switching both the ports (M2 and M3) and the lifting columns (C) Do a system reset (D) Write the new error message here: (E) Did the error message change between Steps 11A and 11D? 	Yes - Go to Result 3 No - Go to Result 4
 12. (A) Write the error message here: (B) Swap the cables in control box port M1 and M3 (C) Do a system reset (D) Write the new error message here: (E) Did the error message change between Steps 12A and 12D? 	Yes - Go to Step 13 No - Go to Result 2
 13. (A) Rewrite the 12D error message here: (B) Make a full swap of the cables, switching both the ports (M1 and M3) and the lifting columns (C) Do a system reset (D) Write the new error message here: (E) Did the error message change between Steps 13A and 13D? 	Yes - Go to Result 3 No - Go to Result 4
14. (A) Do a system reset (B) Is one leg not moving or lagging?	Yes - Go to Step 15 No - You're done!
15. (A) Follow the cable from the lagging leg to the control box port, is it connected to M1?(B) Follow the cable from the lagging leg to the control box port, is it connected to M2?(C) Follow the cable from the lagging leg to the control box port, is it connected to M3?	Yes (A) - Go to Step 16 Yes (B) - Go to Step 18 Yes (C) - Go to Step 20
16. (A) Swap the cables in control box ports M1 and M2 (B) Do a system reset (C) Is the lagging leg now plugged into M2?	Yes - Go to Step 17 No - Go to Result 2

17. (A) Make a full swap of the cables, switching both at the ports (M1 and M2) and the lifting columns (B) Do a system reset (C) Is the lagging leg now plugged into M1?	Yes - Go to Result 3 No - Go to Result 4
18. (A) Swap the cables in control box ports M2 and M3 (B) Do a system reset (C) Is the lagging leg now plugged into M3?	Yes - Go to Step 19 No - Go to Result 2
19. (A) Make a full swap of the cables, switching both at the ports (M2 and M3) and the lifting columns (B) Do a system reset (C) Is the lagging leg now plugged into M2?	Yes - Go to Result 3 No - Go to Result 4
20. (A) Swap the cables in control box ports M1 and M3 (B) Do a system reset (C) Is the lagging leg now plugged into M1?	Yes - Go to Step 21 No - Go to Result 2
21. (A) Make a full swap of the cables, switching both at the ports (M1 and M3) and the lifting columns (B) Do a system reset (C) Is the lagging leg now plugged into M3?	Yes - Go to Result 3 No - Go to Result 4

Troubleshooting Results:

Result 1:

You have exceeded the 10% duty cycle and the desk is overheated. Wait 20 minutes and the desk should resume normal operation.

Result 2:

Replace the control box.

Fill in the M.D. # from the control box here:

Result 3:

Replace the cable.

If directed to this result from 9E or 17C, replace the cable connected to port M1.

If directed to this result from 11E or 19C, replace the cable connected to port M2.

If directed to this result from 13E or 21C, replace the cable connected to port M3.

Result 4:

Fill in the M.D. # from the Lifting Column here:

Fill in the color of the Lifting Column here:

If directed to this result from 9E or 17C, replace the lifting column connected to port M2.

If directed to this result from 11E or 19C, replace the lifting column connected to port M3.

If directed to this result from 13E or 21C, replace the lifting column connected to port M1.

Use the space below to communicate any important notes about the trouble shooting process, and/or list any parts missing or damage for which replacements are requested:

