

FLT-04

User Manual



Contents

Caution	1
Specifications	2
Dimensional Drawing	3,4
Components	5
Assembly	6
Setup	7
Operation/Reset Procedure	8
Troubleshooting	9

Caution



Ensure no obstacles are in the column's path. Ensure the columns are not touching any walls. Ensure all cords are appropriate length to accommodate the change in height.



Warning
Pinch Point
Keep hands and fingers clear.



Keep children away from electric height-adjustable lifting columns, 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 lifting columns. Do not crawl or lie under the lifting columns.



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



During the Reset Procedure, the columns will retract **7mm below the lowest normal operating height**, ensure no obstacles impede this motion of travel.

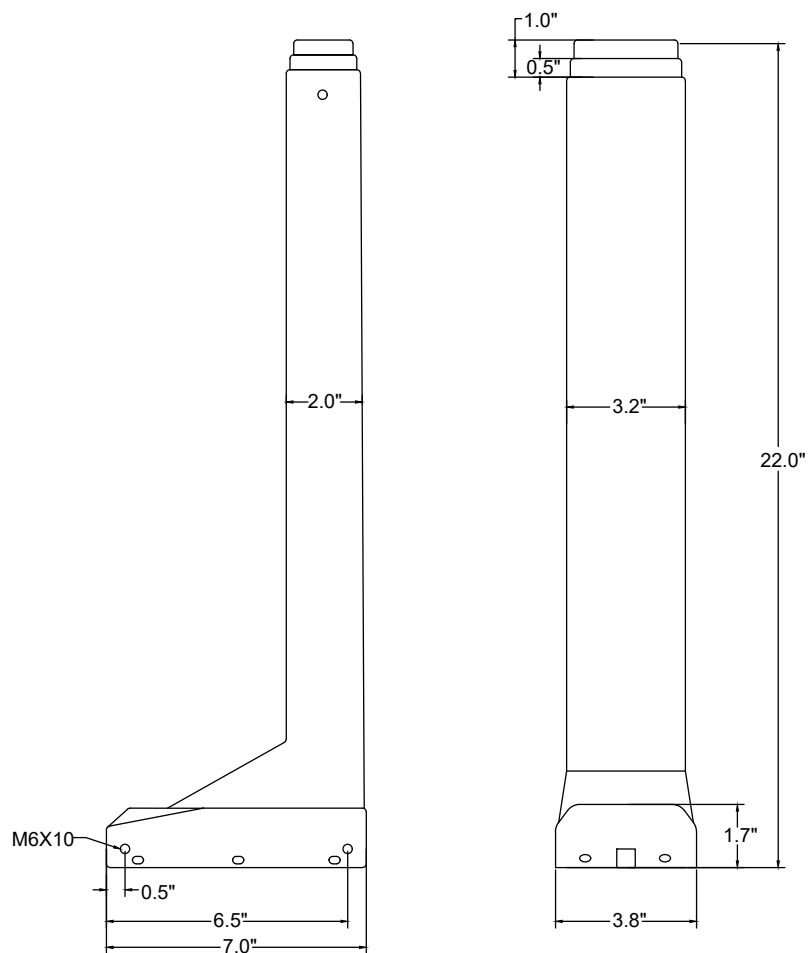


Input Voltage	120 VAC, 60 Hz
Output Voltage	24 VDC
Stroke	25.5"
Weight Capacity	700lbs (175 lbs Per Leg)
Speed	1.50"/sec
Height Range	23.5" - 49" (without table top)
Duty Cycle	10% Max. 2 mins on, 18 mins off
Material	Steel
Finish	Powder Coat - White(RAL9016), Black(RAL9005), Grey(RAL7045)
Certification	UL
Minimum Tabletop Size	43"x 24"

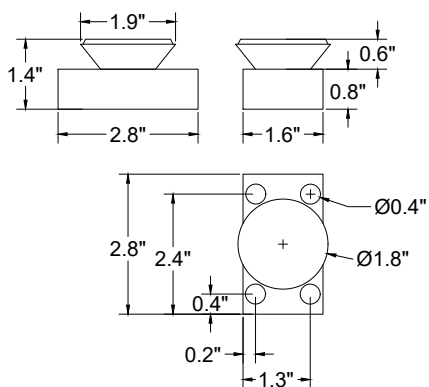
Feature	Description
Soft Start and Stop	The lifting columns will accelerate to maximum speed and decelerate to a stop to ensure smooth travel.
Memory Presets	The Smart Remote has the ability to save preset height locations for convenience. Set the numbered buttons on the Smart Remote for quick and seamless adjustment.



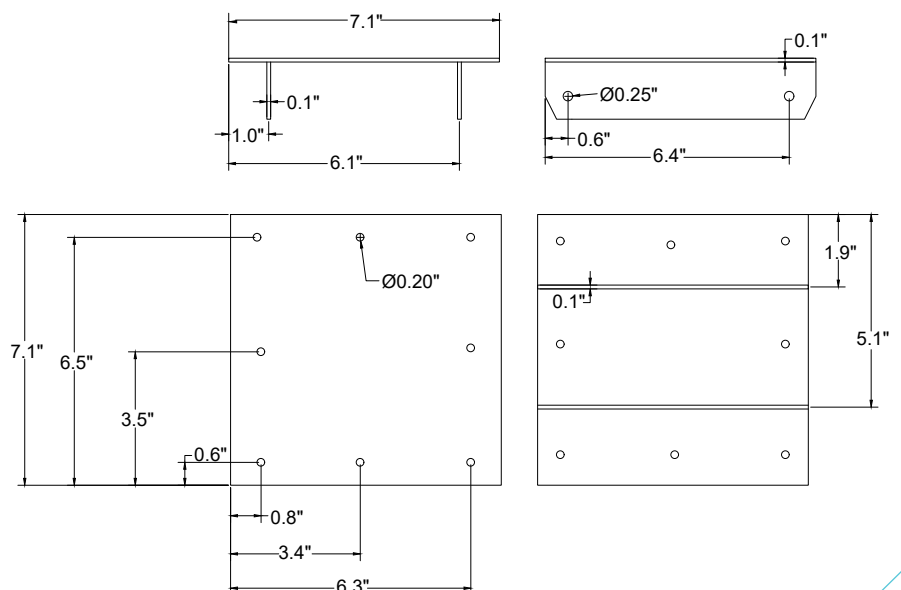
Legs



Stand-Offs

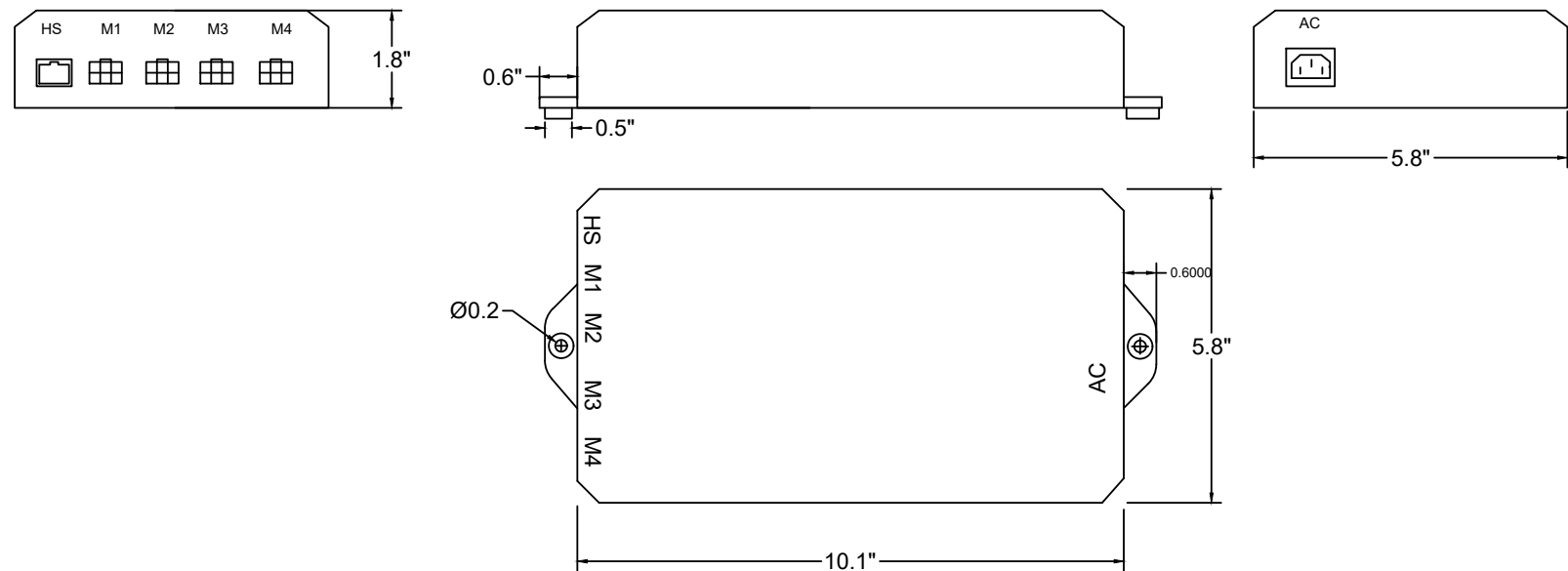


Brackets

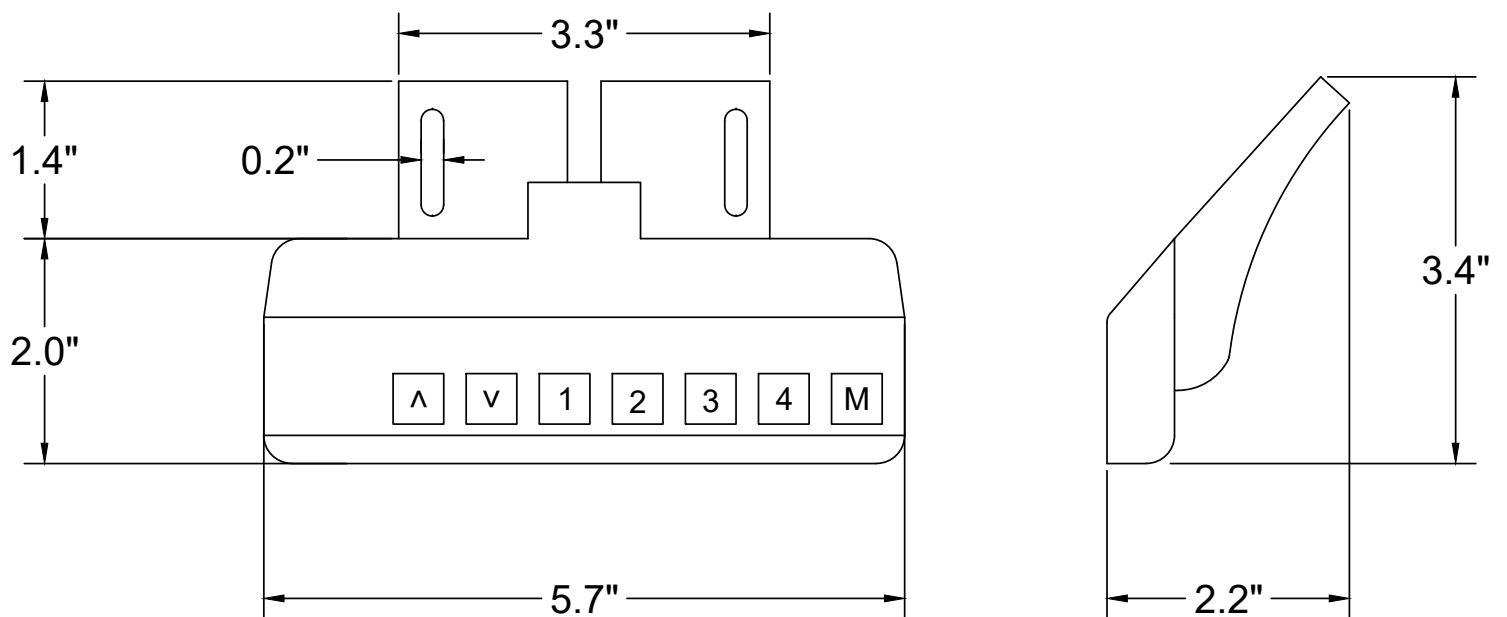




Control Box



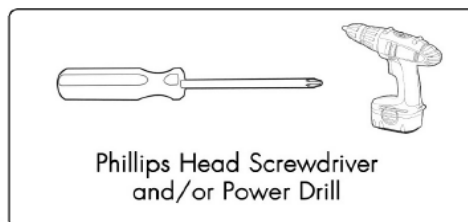
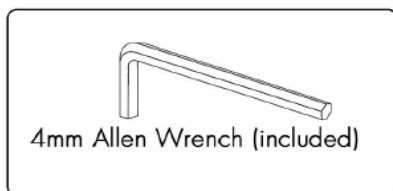
Wired Remote



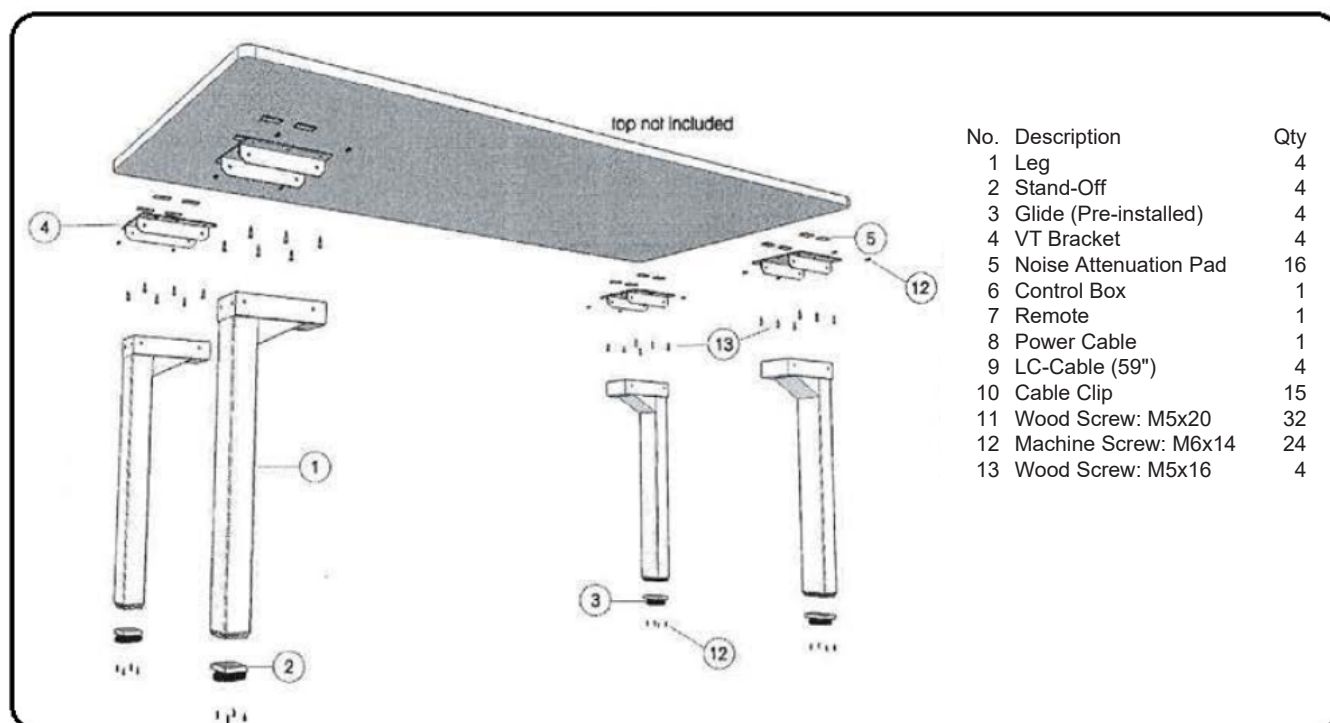
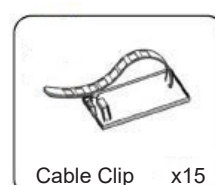
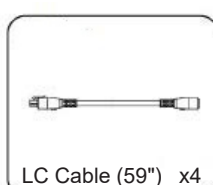
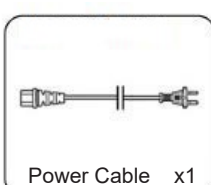
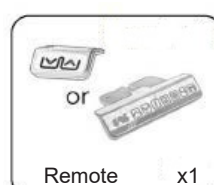
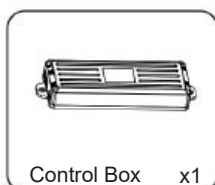
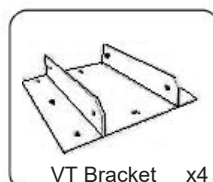
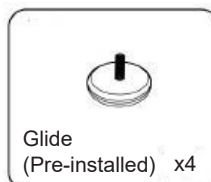
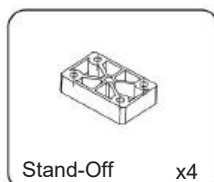
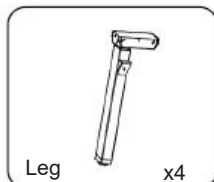
Components



TOOLS REQUIRED



COMPONENTS





STEP 1

Lay out all the included components and hardware to ensure you have everything listed on the parts page. Take four of the self-adhesive Noise Attenuation Pads (P5) and place them on the VT Brackets (P4) as shown.

STEP 2

Place the VT Brackets (P4) on the underside of the surface you will be lifting. Use the included 24x Wood Screws (P11) to attach the Brackets in place, using six screws per bracket.



Ensure the box and remote are placed so the wires can reach between all components



STEP 6

Now that everything's in place we can start connecting it all together. Connect the remote (P7) to the Control Box (P6). Use the 4x LC Cables (P9) to connect each Leg (P1) to the Control Box (P6). Finally take the Power Cable (P8) and connect each one to the control box. Use the included adhesive-backed Cable Clips (P10) to secure all the wires for cable organization.

STEP 7

Once you have everything connected and secure, carefully turn your surface right-side-up. We recommend using at least 2 people to do this. Adjust the pre-installed Glides (P3) as needed.

STEP 8

Plug the Power Cable (P8) from the Control Box (P6) into an outlet.

IMPORTANT

You **MUST** reset the table lift prior to use. See Reset Procedure on page 7.



Caution: Double-check that the wood screws (P13) are short enough that they won't puncture a hole in your surface when screwed in completely



If your surface is not pre-drilled we recommend you pre-drill any holes needed for the VT Brackets (P4). Never use countersunk screws



STEP 3

Place the 4 Legs (P1) into the 4 VT Brackets (P4) as shown. Using the supplied Allen Wrench, loosely thread the M6X14 Machine Screws (P12) into the remaining holes on each of the VT Brackets (P4) to secure the 4 legs (P1). Once all screws are in place, fully tighten all four screws.

STEP 4

Now that the Legs (P1) are secure you can attach the 4 Stand-Offs (P2) and 4x Glides (P3) to the bottom of each leg as shown. Secure the Stand-Offs (P2) and Glides (P3) with the remaining M6X14 Machine Screws (P12), 4 per leg.

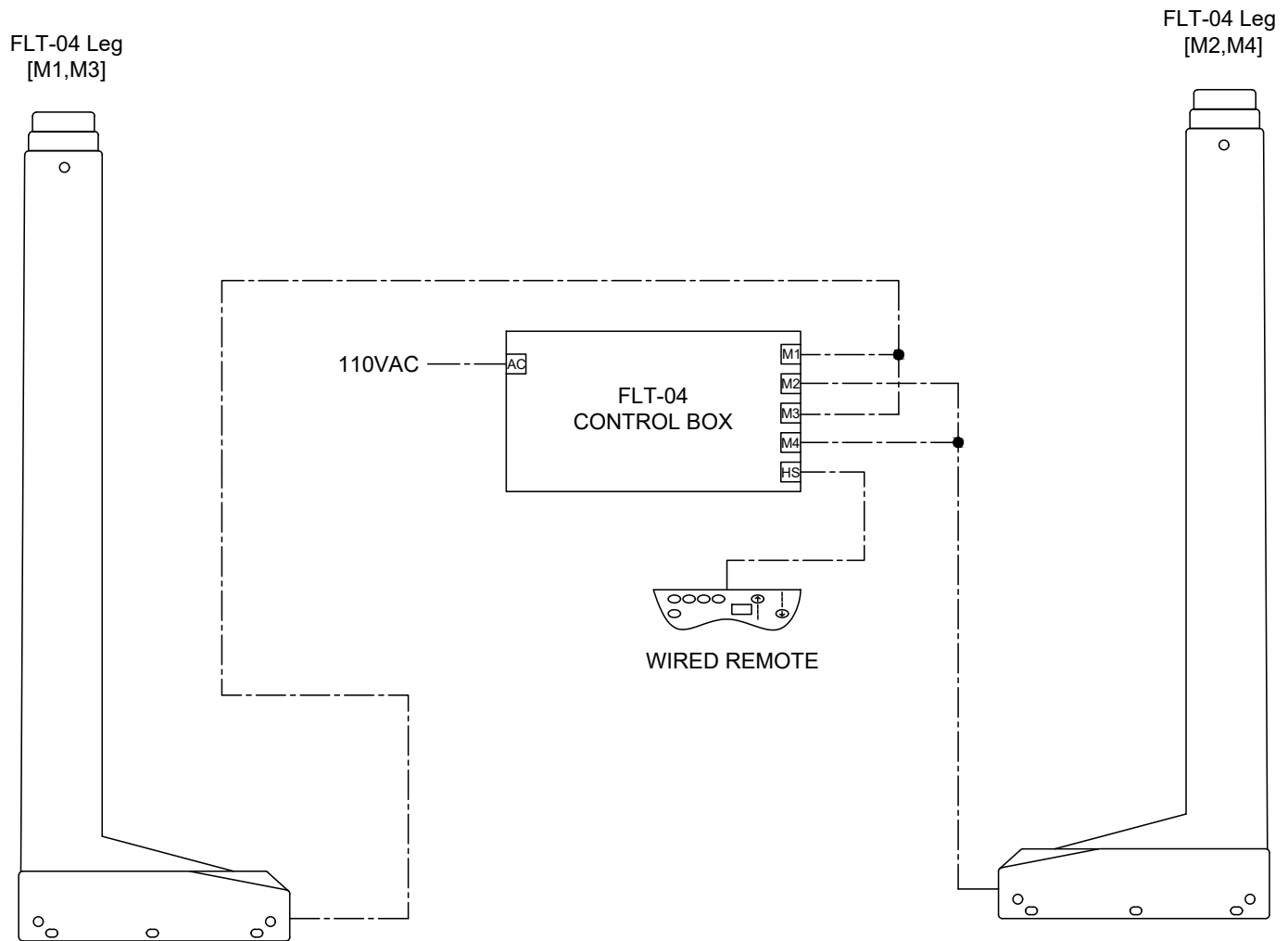
STEP 5

Attach the Control Box (P6) to the underside of your surface using 2x of the M5X16 Screws (P13). Make sure you leave enough room for cable connections into the wire ports on the box. Next find a suitable area to place your Remote (P7), we recommend somewhere on the end of your surface along the front edge. Once you are satisfied with its position you can attach it using 2x M5X16 Screws.



As stated earlier make sure the screws are short enough that they don't puncture a hole in your surface when screwed in completely. Do not overtighten the screws here, overtightening may cause damage to the components.







Normal Operation

Using the wired remote, press and hold the 'Up' button to raise the lifting columns. To lower the lifting columns, press and hold the 'Down' button. The 'Up' and 'Down' buttons are momentary controlled, when they are released, the lifting columns will stop immediately.

To set a preset location, move the lifting columns to the desired height. Press the 'M' button followed by a numbered button. The LED display will flash an 'S', followed by an 'S - Number'. This will indicate that the preset has been saved.

To use a preset, press any of the numbered buttons and the lifting columns will begin to move to the preset position. It is important to ensure that no obstacles impede the motion of travel. To stop the lifting columns, press any button.

If the lifting columns do not function as intended or the LED display flashes "RSt", please follow the Reset Procedure outlined in the next section.

Setting the LED Display

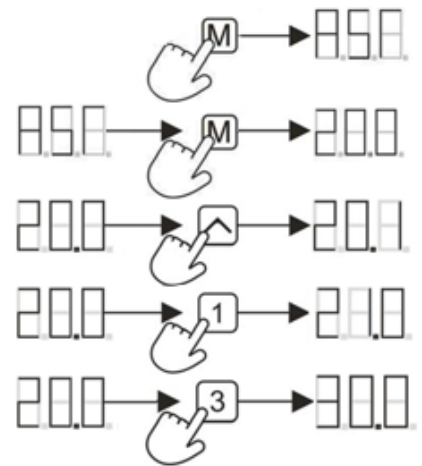
Using the wired remote, retract the lifting columns to the lowest position. Press and hold the 'Down' button again until the LED display flashes "RSt".

Press and hold the 'M' button until the LED display flashes the starting height (if the display returns to "RSt" before the next step, repeat this step).

To change the value of the starting height, use the 'Up', 'Down' to increase and decrease by 0.1. Use the '1', '2' to increase and decrease by 1s. Use the '3', and '4' buttons to increase or decrease by 10s.

Once the correct value is displayed, wait 5 seconds until the LED display flashes "RSt". Follow the Reset Procedure outlined in the next section to save the new starting height.

Note: the LED display has a tolerance of ± 0.1 .



Reset Procedure



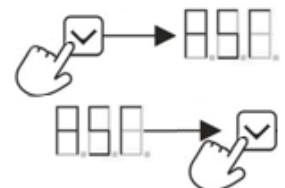
WARNING: During the Reset Procedure, the lifting columns will retract 7mm below the lowest normal operating height, please ensure that no obstacles impede this motion of travel.

1. Move the lifting columns to the lowest position. (If there is an 'RSt' displayed on the remote, continue to step 3.)

2. To initiate the Reset Procedure, press and hold the down button on the remote until "ASr" is displayed. Release the down button.

3. Press and hold the down button on the remote, the lifting columns will begin to retract 7mm lower than the lowest normal operating height. To stop motion at any time, let go of the down button.

4. Once the lifting columns have completed the Reset Procedure, height will be displayed on the remote.





Troubleshooting Guide

Problem	Possible Cause	Corrective Action
Remote LED is off.	Low power mode activated	Press any button on the remote and LED will activate.
	Connection issue	Disconnect and reconnect the RJ-45 remote connector. Ensure connection is secure and cable is not damaged.
Lifting columns do not move when motion control buttons are pressed.	Limit switch reached	Follow "Setting Limit Switches" instructions to remove the programmed limit. If maximum or minimum height limit has been reached, please move the system in the opposite direction.
	Connection issue	Disconnect and reconnect the Lifting Columns, Control Box, AC Power, and Remote.
Lifting columns travel at a significantly slower speed than rated specification.	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.
Lifting columns stop abruptly during travel.	Obstacle	Ensure there are no obstacles in the path of the lifting columns. If the movement continues to fail, initiate the Reset Procedure.
Lifting columns are not level.	Out of sync	Disconnect and reconnect all cables (Lifting Column, Control Box, AC Power, and Remote), then initiate the Reset Procedure.

Error Codes (remotes with LED display)

Error Code	Error Summary	Description
E01	M1 overcurrent protection	All columns stop moving and remote displays E01-E04. Ensure that the total weight capacity of the lifting columns has not been exceeded and that no obstacles obstruct the movement. Press any key and remote will display RST, initiate the Reset Procedure. If the issue persists, disconnect and reconnect all of the lifting columns, including the main power. Repeat the Reset Procedure.
E02	M2 overcurrent protection	
E03	M3 overcurrent protection	
E04	M4 overcurrent protection	
E07	M1 hall error	All columns stop moving and remote displays E07-E10. Ensure that all columns are still properly connected to the control box. Check to see if any cables have been damaged. Press any key and remote will display RST, initiate the Reset Procedure. If the issue persists, disconnect and reconnect all of the lifting columns, including the main power. Repeat the Reset Procedure.
E08	M2 hall error	
E09	M3 hall error	
E10	M4 hall error	
H01	Over heat /duty cycle protection	All columns stop moving, remote displays H01 (if LED screen available). Allow the system to rest for 16 minutes, use normally. Follow the Duty Cycle rating to ensure no issues arise from overheating.