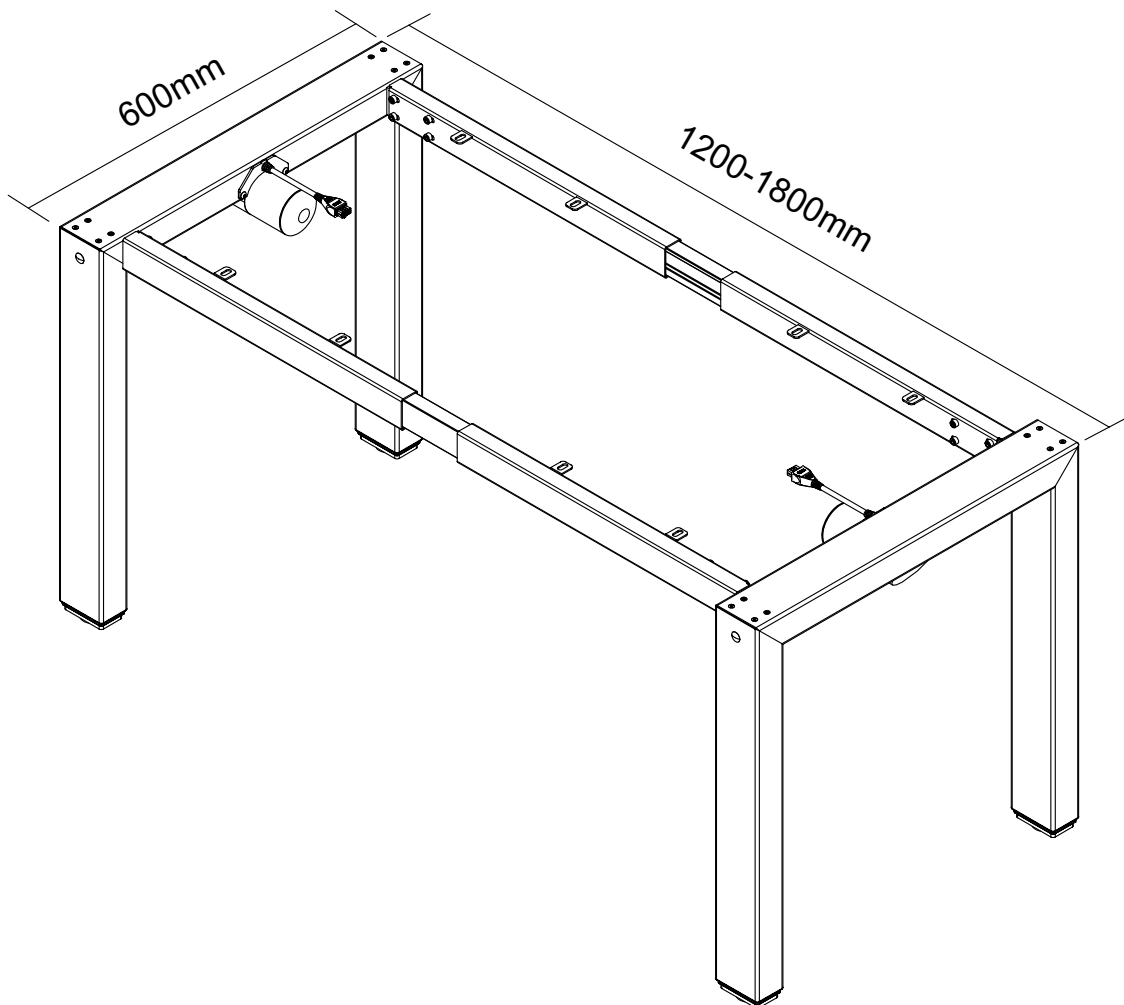


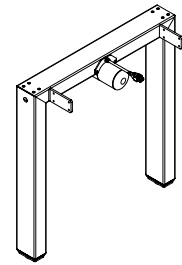
# UPGRADE Work

4 LEG / 2 MOTOR  
(with Remote Control)

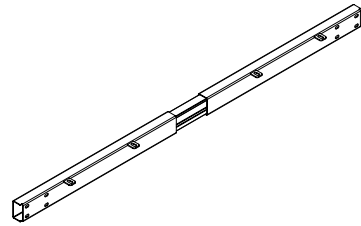


## 1. Packaging

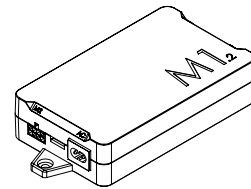
### 1.1 Part Check List



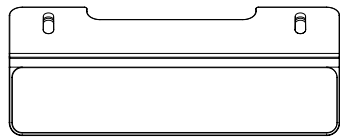
Leg (2 Pcs)



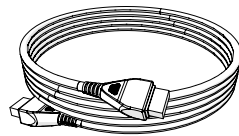
Top Frame (2 Pcs)



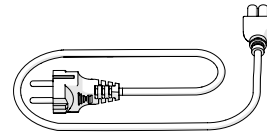
Control Unit (1 Pcs)



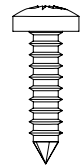
Remote Control (1 Pcs)



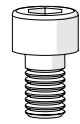
Motor Cables (2 Pcs)



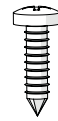
Power Cable (1 Pcs)



ST 4.8x19 (10 Pcs)



M6x10 (16 Pcs)



M3.5x12 (8 Pcs)



Allen Key 5mm (1 Pcs)



Cable Ties (6Pcs)

Parts displayed above may vary, based upon Frame Configuration

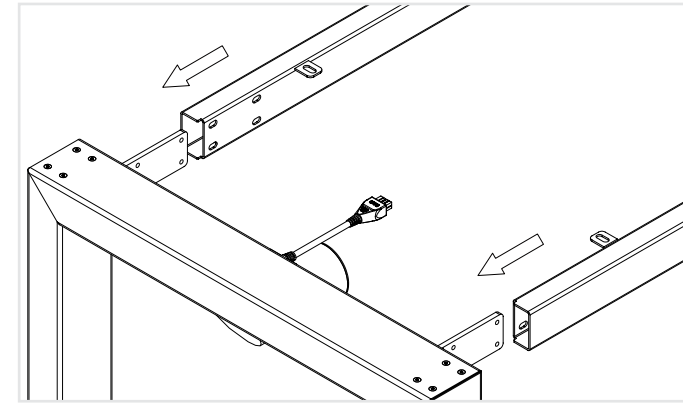


### Torque Guide

- M6 Screw's max torque = 6nm
- M8 Screw's max torque = 6nm
- M10 Screw's max torque = 6nm
- Tapping screws hand tightening only

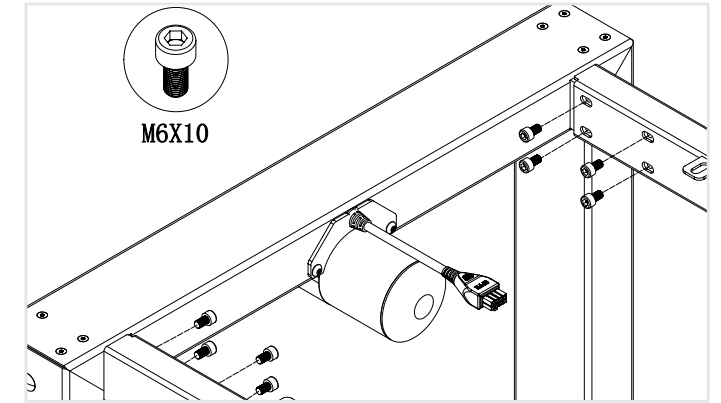
## 2. Assembly

### 2.1 Assembly Step by Step



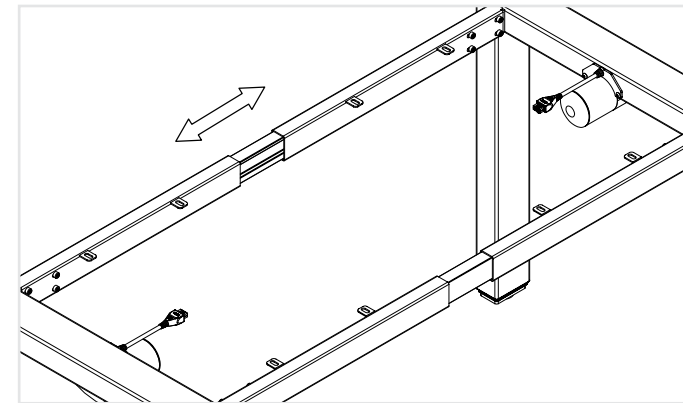
#### Step 1

Assemble the Top Frame & Leg as illustrated above.



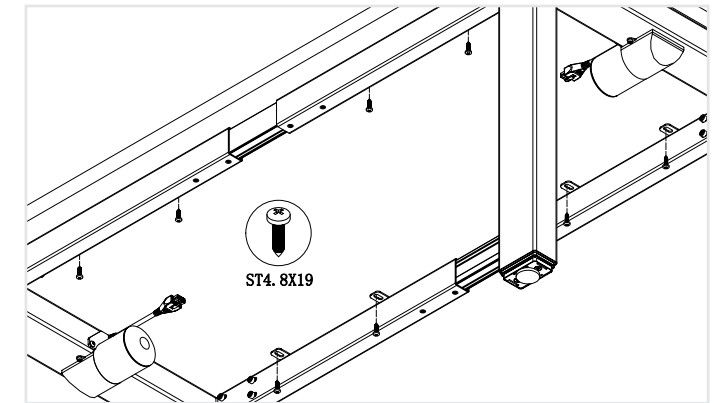
#### Step 2

Assemble the Top Frame and Leg as illustrated above. Please refer to Torque Guide.



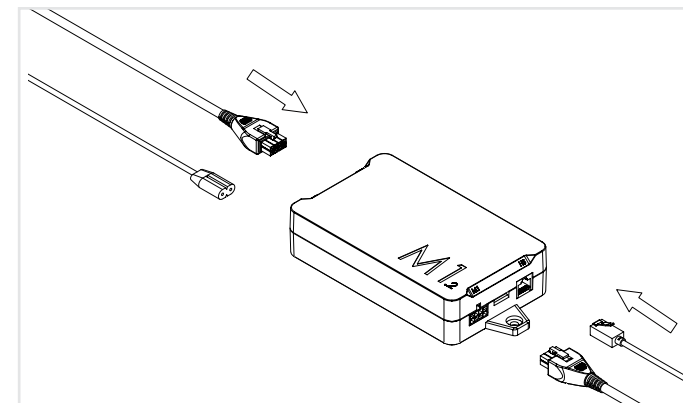
#### Step 3

Adjust the top frame to the right length.



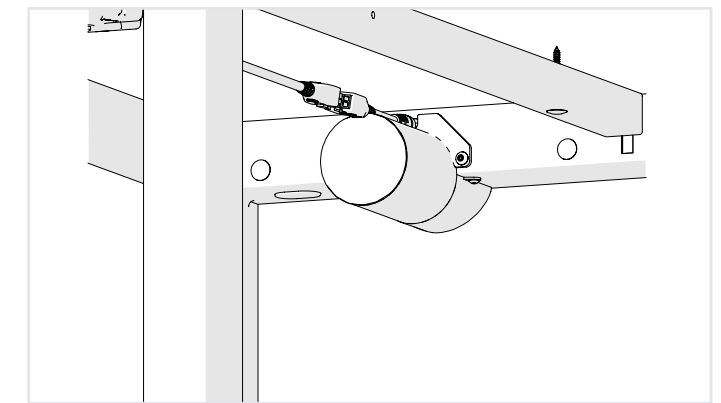
#### Step 4

Mount the Frame to the Table top as illustrated above. Please refer to Torque Guide.



#### Step 5

Connect the Motor and Power Cables to the Control Unit as illustrated above.

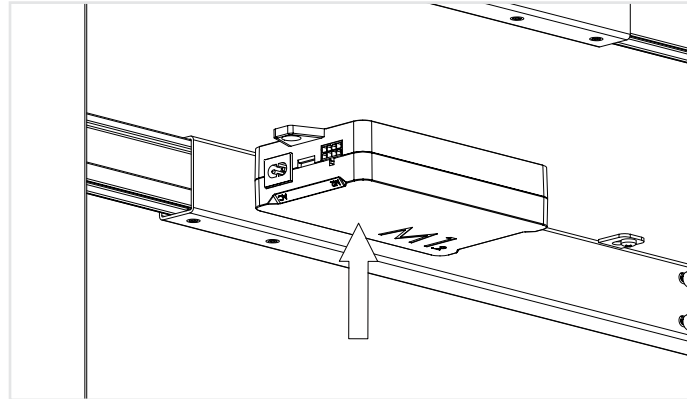


#### Step 6

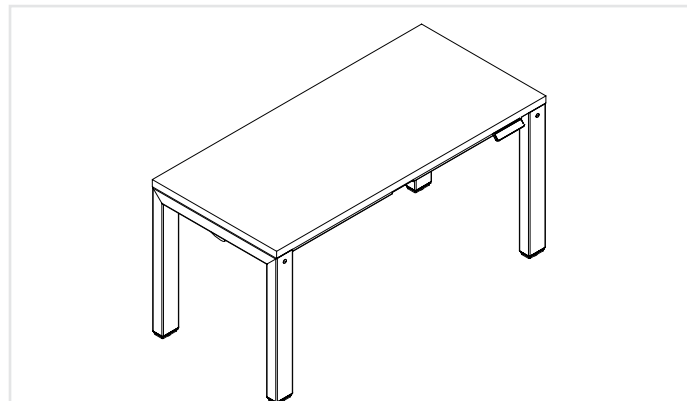
Connect the Motor Cable to the Leg as illustrated above.

2. Assembly

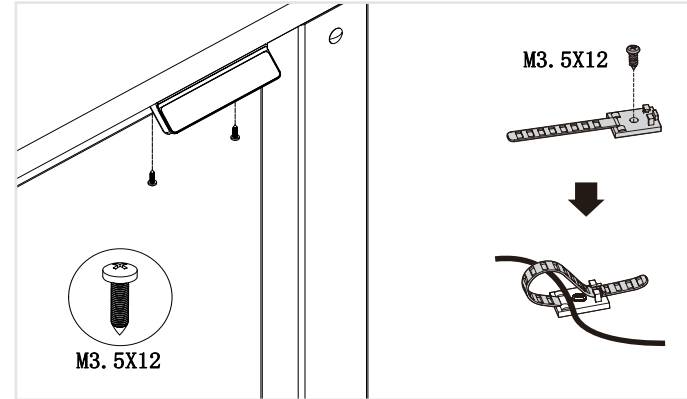
2.2 Assembly Step by Step



**Step 7**  
Mount the Control Unit as illustrated above.



**Step 9**  
Perform Zero Setting.



**Step 8**  
Mount the Remote Control to the Table top as illustrated above. Please refer to **Torque Guide**.

**2.2 Zero Setting:**

When you use the height adjustable frame for the first time, you have to reset the lowest desktop position to the minimum height.

- Press ▼ button and keep pressing it until the desktop has reached the lowest position (programmed desktop position).
- Press ▼ button again and keep pressing it. After about 5 seconds, the desktop will slowly move further down until it reaches the absolutely lowest desktop position possible.
- Release ▼ button. The electric height adjustable frame can now be used.

5. Operating Instructions

Button Description:



**5.1 Keyboard interface example**

- **Save button 1:** Press and hold for 5 seconds to save the position height s1
- **Save button 2:** Press and hold for 5 seconds to save the position height s2
- **Save button 3:** Press and hold for 5 seconds to save the position height s3
- **Save button 4:** Press and hold for 5 seconds to save the position height s4; Press and hold for 10 seconds to enter the function setting button
- **DOWN key:** The motor runs downward
- **UP key:** The motor runs upward
- **The right side has USB charging function: 5V/2A**

**5.2 Initialization operation**

When the system is abnormal or the hand controller displays "RST", the lifting table needs to be initialized. To initialize, press and hold the "DOWN" button until the motor stops and then release the button. Then press "DOWN" for 5 seconds to automatically enter the initialization mode. The "DOWN" button cannot be released at this time. If the "DOWN" button is released, the system stops the initialization mode. When the initialization is completed, the buzzer will sound a prompt, indicating that the initialization is successful. When the initialization is completed, the buzzer will sound a prompt, indicating that the initialization is successful.

**5.3 Up and down key operation**

- When the "UP" button is pressed, the desktop moves upward until it reaches the highest point of the desktop.
- When the "DOWN" button is pressed, the desktop moves downward until it reaches the lowest point of the desktop.
- When the "UP" or "DOWN" key is short pressed, the desktop moves a small distance accordingly to achieve inching.

**5.4 Position storage and memory operation**

- The hand controller in the picture above can store 4 memory points. The storage method is as follows: when it reaches a specific point, long press the "1-4" button for 5 seconds, and you will hear a buzzer sound, and the current position is stored in the corresponding number.
- In full-automatic mode (S-6 is 1), if you want to run to a memory point, you only need to press the number corresponding to the storage position, and then the system will automatically run to the corresponding height of the position storage. During the operation, any key can stop the system.

**(Semi-automatic mode function is turned off)**

**5.5 High and low limit settings**

- The system supports desktop height limitation. The operation method is: when you want to set the current height as the desktop limit height, press and hold the "UP" + "DOWN" buttons for 5 seconds at the corresponding height. You will hear a buzzer, indicating that the limit position is stored successfully. When the table is in the upper half of the travel, the limit is the high position.

**Cancel the height limit**

**Method 1:** Reset the system and cancel the height limit.

**Method 2:** Let the desktop run to the high or low limit, and then press and hold the "UP" + "DOWN" buttons for 5 seconds. You will hear a buzzer, indicating that the limit position has been successfully canceled.

## 5. Operating Instructions

### 5.6 Lock and Unlock

- Lock : Press and hold "4" + "UP" for 5 seconds. When the digital tube displays "Loc", Indicates that the system has been locked and cannot be raised or lowered.
- Unlock : Press and hold "4" + "DOWN" for 5 seconds. Normal digital display means the system is unlocked.

### 5.7 Restore factory settings

When the system is replaced with new table legs, or the parameters need to be restored to the factory settings, press "UP+DOWN" for 10 seconds at the same time and hear a long buzzer prompt. At this time, the parameters are restored to the factory state and forced initialization.

### 5.8 Timing operation

Press the "1" + "3" buttons on the hand controller, and the hand controller displays x.xh. At this time, you can press the "UP" or "DOWN" button to adjust the timer in 0.5 hour increments. Set it to automatically exit in 2 seconds. At this time, a decimal point will flash after the hand controller goes off, indicating that the timer is running. When the timer is reached, the buzzer will sound 5 times and the hand controller will automatically wake up.

### 5.9 Automated Testing

To enter the mode, press and hold the "UP" + "DOWN" + "s1" buttons for 2 seconds at the same time. The test stroke runs from the lowest position to the highest position. At this time, all decimal points of the digital tube are displayed, indicating automatic test mode. To exit the automatic mode, press and hold the "UP" + "DOWN" + "s1" buttons for 2 seconds at the same time. (The rest time can be set for automatic test, 01 means the motor runs once and rests for one minute, 02 means the motor runs once and rests for two minutes.

### 5.10 Internal parameters and installation distance setting

- Press and hold the "4" button on the hand controller for 10 seconds to enter the setting interface, and "S-x" will be displayed.
- "x" flashes, where "x" is the parameter group. At this time, press "4" to enter the parameter group setting dialog.
- Press "UP" or "DOWN" to switch parameter groups. After setting the parameters, press the "4" key to return to the operation interface. The parameters that can be set are as follows:
  - "S-1" 0 means metric display, 1 means imperial display.
  - "S-2" means the accuracy of the sensor when it encounters an obstruction, 0 means off, 8 is the most sensitive, 1 is the least sensitive.
  - "S-3" means the accuracy of the upward current when it encounters an obstruction, 0 means off, 8 is the most sensitive, 1 is the least sensitive.
  - "S-4" means the accuracy of the downward current when it encounters an obstruction, 0 means off, 8 is the most sensitive, 1 is the least sensitive.
  - "S-5" means the installation distance, in cm.
  - "S-6" 0 means press the storage position key to run and stop, 1 means press the storage position key to automatically run to the stored position, and stop with any key. (Semi-automatic function closed)
  - "S-7" means 0 means turn off the 2-minute 18-minute working system, only rely on temperature protection controller, 1 means turn on the 2-minute 18-minute working system.
  - "S-8" means the tabletop tilts left and right, sensitivity, to prevent the height of the two table legs from being inconsistent due to screw rod breakage or other reasons, 0 means turn off, 1-8 respectively represent a tilt angle of 0.5-4. (Function closed)

## 6. Error Codes

| Error code Note |  | How to handle it   |
|-----------------|--|--|
| E01             | The main supply voltage is over 45V                                | Check the main power supply                                  |
| E02             | The height deviation between the screws exceeds 1cm                | Re-initialize  |
| E04             | Remote control connecting or communication error                   | Check the remote control cable                               |
| - --            | In the event of a drag-stop display                                | Release the button and run again                             |
| E06             | Main power start did not succeed, lower than 20V                   | Replace the main power supply, or check the main power cable |
| E07             | Protect when the main power supply is running, lower than 20V      | Power up again   |
| E08             | Tilt when the desktop is running                                   | Re-initialize  |
| HOT             | High power supply temperature, or run over 2 minutes in 18 minutes | Wait for the power temperature to drop and rerun             |
| E11             | Motor 1 not connected  | Check the cable  |
| E12             | Motor 1 Error in current sampling channel                          | Replace the control panel                                    |
| E13             | Motor 1 missing phase, phase line disconnect                       | Check if the motor is not properly connected to the line     |
| E14             | Motor 1 hall error, or hall line disconnect                        | Check the hall signal, or replace the cable                  |
| E15             | Motor 1 internal short circuit                                     | Replacing the motor  |
| E16             | Motor 1 locked-rotor   | Re-initialize  |

## 6. Error Codes

| Error code Note |  | How to handle it   |
|-----------------|--|--|
| E17             | Motor 1 wrong direction of operation         | Switch the motor line or hall line                       |
| E18             | Motor 1 overload                             | Reduce load  |
| E21             | Motor 2 not connect                          | Check the cable  |
| E22             | Motor 2 error in current sampling channel    | Replace the control panel                                |
| E23             | Motor 2 missing phase, phase line disconnect | Check if the motor is not properly connected to the line |
| E24             | Motor 2 hall error, or hall line disconnect  | Check the hall signal, or replace the cable              |
| E25             | Motor 1 internal short circuit               | Replacing the motor                                      |
| E26             | Motor 2 locked-rotor                         | Re-initialize  |
| E27             | Motor 2 wrong direction of operation         | Switch the motor line or hall line                       |
| E28             | Motor 2 overload                             | Reduce load  |
| E40             | Controller drop line in series               | Check the cable  |
| E41             | Error in the series signal                   | Check the cable, or replace the controller               |
| E42             | Memory error                                 | Replacing the controller                                 |
| E43             | Disable sensor error                         | Replacing the controller                                 |