

MANUAL

Ver.1.3
Oct. 2021

RT-400



Rodek Co.,Ltd

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■ Introduction

Thanks you for purchasing this model (RT-400).

Please use RT-400 after read & understand the manual carefully and understand it well.

Service Environment

- ✓ Don't use it under being exposed to direct sunlight.
Recommend to be used under Temperature
(Celsius: -10°C~40°C / Fahrenheit: 14°F~104°F),
Humidity (30% ~ 85%), Air Pressure (70~106Kpa).
- ✓ Install the equipment horizontally and maintain the level for smooth performance.
- ✓ Check it out whether power code is connected correctly all the time.
- ✓ Use the voltage 220V, 50/60Hz.
- ✓ Power off in case of not working the device.

■ Indication for using Safely

This Manual is describing the important information that can be used to guide other people who have used or to be used properly and safely, and to prevent property damage.

Please read and understand "Safety Precautions" and the body keep your base and then display, a sign of the following understanding.

Display and Meanings

	Warning	May result in the risk of serious injury if you ignore the display and handling of death or in the wrong way.
	Caution	This possibility is likely to be an injury people or cause property

		damage if you ignore this display and handle the wrong way.
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⑩ Symbols & Meanings

	Template for a prohibition sign (red circle and diagonal); The black symbol or text shall be placed centrally on the background and shall not obliterate the cross bar, or a supplementary text next to the sign.
	Template for a mandatory action sign (blue background); The white symbol or text shall be placed centrally on the background, or a supplementary text next to the sign.
	Template for a warning sign (yellow background and black triangle); The black symbol or text shall be placed centrally on the background, or a supplementary text next to the sign.
	Follow instructions for use
	Manufacturer
	Date of Manufacture
	Serial no.
	Indicates a medical device that needs protection from light sources.
	No pushing

	<p>Indicates the temperature limits to which the medical device can be safely exposed.</p>
	<p>Indicates the range of humidity to which the medical device can be safely exposed.</p>
	<p>Warning - Disposal of waste products</p> <ol style="list-style-type: none"> 1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2012/19/EU. 2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities. 3. The correct disposal of your waste products will help prevent potential negative consequences for the environment and human health. 4. For more detailed information about disposal of your waste products, please contact your city office, waste disposal service or the shop where you purchased the product.
	<p>Type B applied part (Patient chair)</p>

■ Safety Precaution

Symbol	Prevent Entry
	Do not disassemble the unit for repair. You may receive an electric shock. Please contact your dealer for repair.
	Do not place the unit in a location where water or other liquid spray. Fire or electric shock may occur.
	Connect the single-phase AC power plug. If plugged into a different place, you can cause a fire and electric shock.
	Replace, remove the power cord, fuse. If not, you may cause an electrical shock. Use the fuse rating.
	Unplug the power cord from the device occurs ten thousand days of smoke or other problems. Otherwise, the risk of fire. Please contact your dealer for repair.
	When you put the device in the table, more than 5° Do not place unstable or tilted. May result in injury due to the unit.
	Do not place heavy objects on the table than the specified value. May result in injury due to the unit.
	Do not insert your fingers between moving equipment operating unit. May result in injury due to the unit.

	If repair is required, contact your dealer.
	When assembled correctly and tighten the bolts. May result in failure

■ Management

Ⓢ User Management

Do not manage the work of non-instructed in this manual is to maintain safety and performance of the service is absolutely top other equipment degradation.

The information that is listed, however, the following items can be managed customers.

✓ Exchange of Fuse

You can replace the Fuse.

Please refer body(main manual) how to handle

Ⓢ Disclaimer(Exemption from Responsibilities)

- ✓ We will not be liable with respect to any caused by fire, earthquake, acts by third parties, other accidents, user's negligence, misuse or other damage under abnormal operating conditions.
- ✓ Caused by the use of other than those specified in the instruction manual.

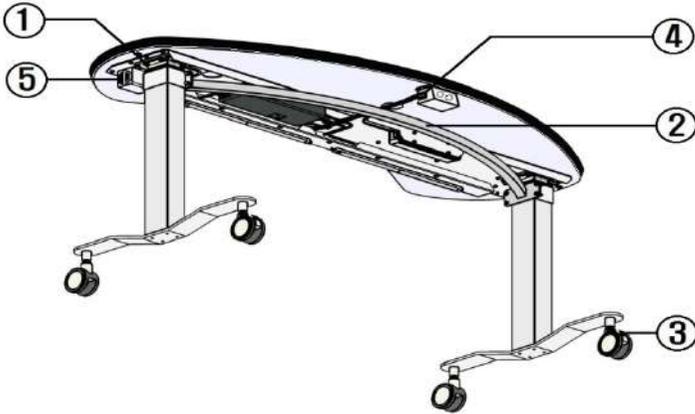
Manufacturer shall not be liable for any damages at all.

■ Alert and Display Position

Warning notices are to ensure safety on the unit.

Please follow the instructions of your display.

Ⓢ Warning

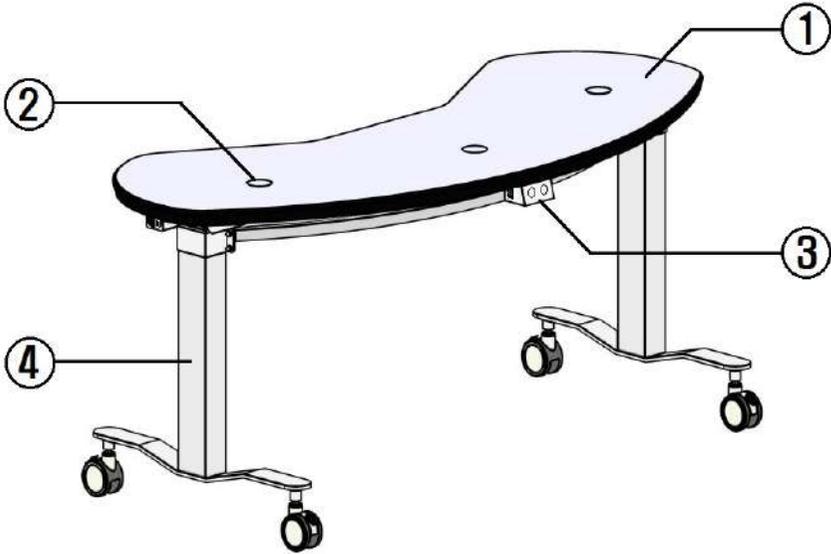


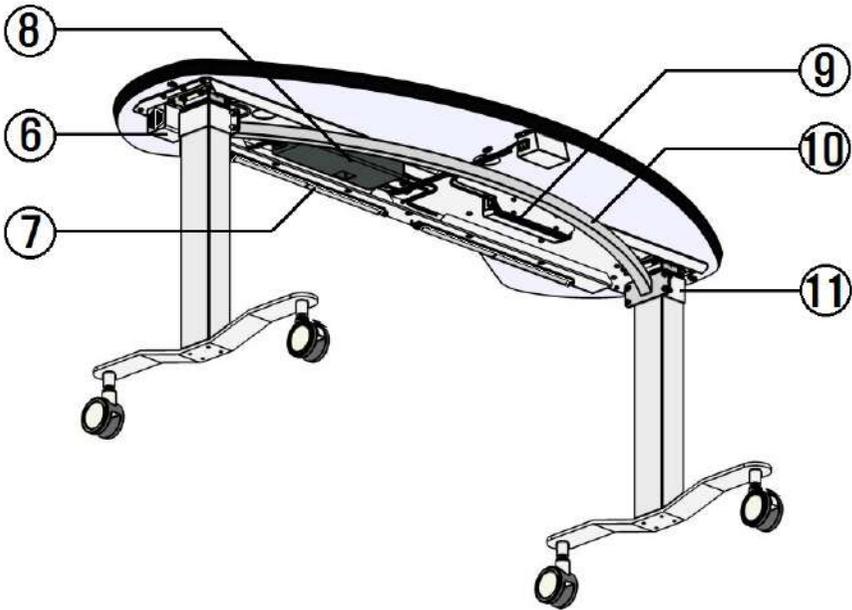
	Attention	<ul style="list-style-type: none">① For bolt tightening exactly lift column assembly for fastening. Damage of column may be caused to risk of injury.② Do not install close to the table, the rib height some of the work of the body (fingers, etc.) interrupt the risk of injury③ Must use all 4 castor breakers. All breakers attached the 4 wheels must be locked. The slippery equipment may cause to injury.④ Don't power switch off while table up/down operation. The operation of machine is
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stopped.

- ⑤ When replacing the fuse, please turn off the power switch, unplug the power cord from the wall outlet. There is a risk of electric shock.

■ Name of each part & Function





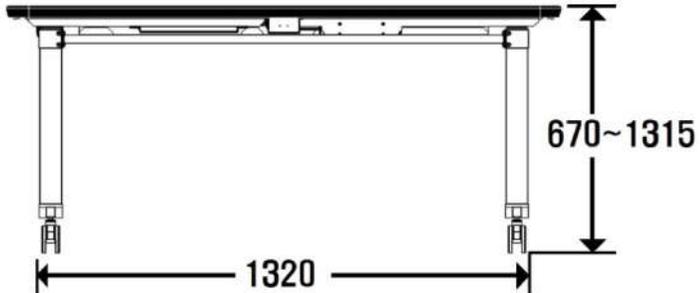
④ Name of each part & Function

- ① Table : You can install 3 test equipment.
- ② Cable Hole : You can send down the equipment power cables.
- ③ Control box: There is main power, table up/down switch.
- ④ Lift Column: Assemble Column, Base and Castor.
- ⑤ Caster: The lever is fitted with a manual stop function
- ⑥ Power Input Box: The boxes are connected to the power cable.
Can be mounted on the left and right depending on the ambient environment.
- ⑦ Safety Switch: The table stops when a patient's knee touch the table because safety switches is working immediately.
- ⑧ Controller: control the left and right lift column at the same time.

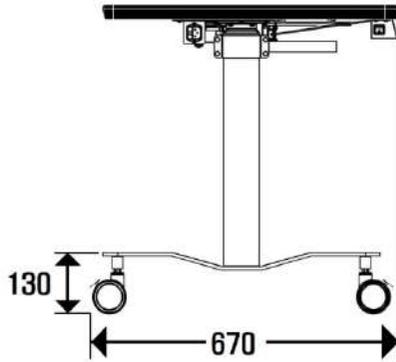
- ⑨ Socket : a built-in 4-sphere is exposed outlet and connect the power to the equipment
- ⑩ Reinforcing Band : To prevent motion of the table and
For being fixed lift column:
- ⑪ Reinforcing Band Bracket: The part where the reinforcing band assembly and installation

⑩ **Size of Table (Measure : mm)**

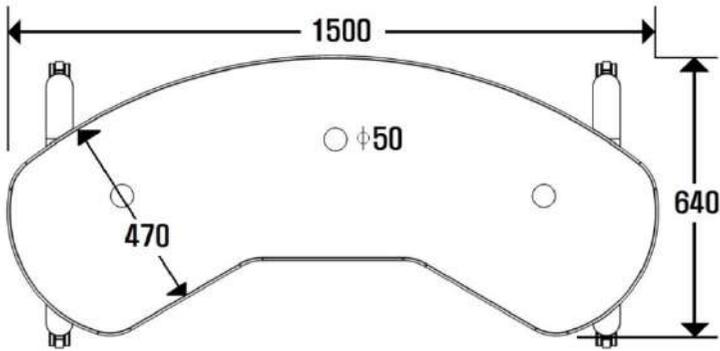
<Front View>



<Side View>



<Plane View>



■ Standard accessories and Spare parts

- ✓ User's Guide(1EA)
- ✓ Glass tube fuse 250V F5AL(2EA)

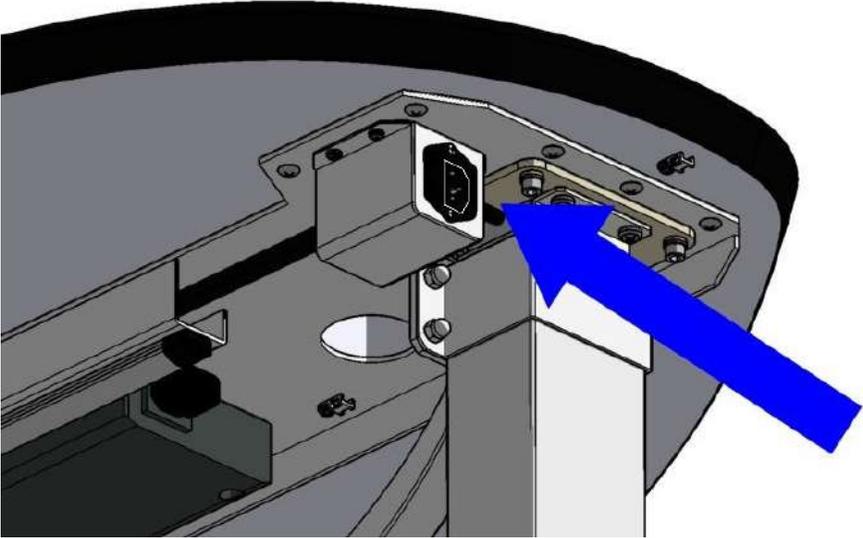
■ Way of Use

Ⓢ Precaution before use

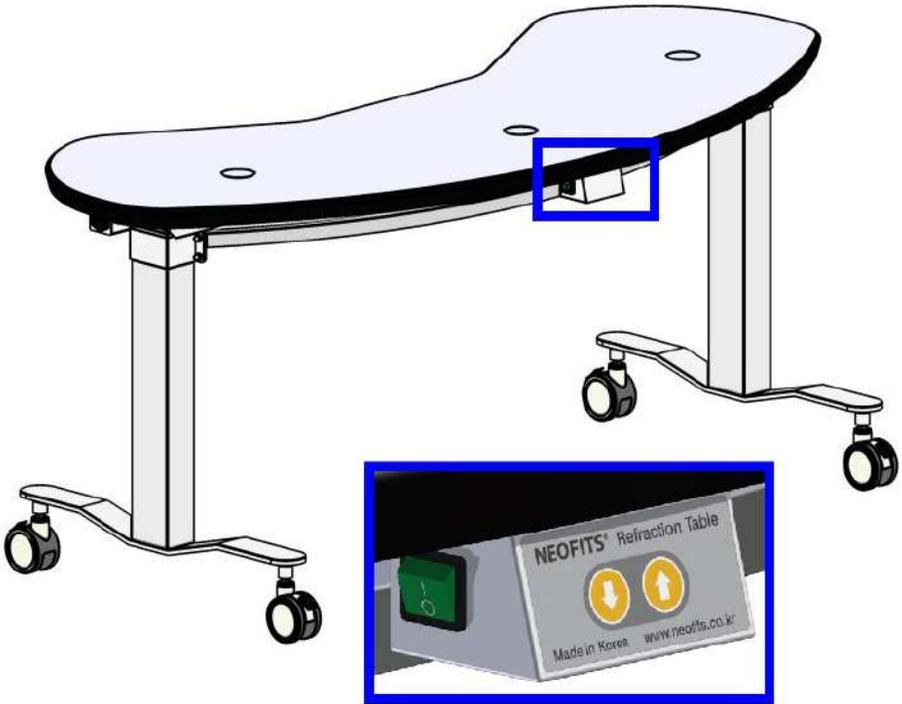
- ① Check it out Power Voltage (110-120V 50/60Hz)
- ② Power on the switch.
- ③ Check it out whether the equipment is working or not
After connection the power supply.

Ⓜ **How to use and operation sequence.**

- ① Insert the power cord into the power input box where locate the lift column next to left of the table, and connected to utility power supply.



- ② On the front of the product into the green control switch to the "I" in position, slide and then the green light is turned on (power ON)



- ③ The table is rising up while pushing up (▲) switch
the tables are falling down while pushing down (▼) switch.
- ④ Slide the "O" position of the POWER switch on the control panel. The green light will turn off (power OFF)
- ⑤ Disconnect the power cable from the main power.

■ When Problem Occurs

Ⓜ How to operate when a problem occur.

	<p>Warning</p>	<p>Do not disassemble the unit for repair. You may receive an</p>
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		electric shock. Please contact your dealer if necessary for repair.
	Cautions	Do not open the control box carelessly You may receive an electric shock Please contact your dealer if necessary for repair.

If a problem occurs, please check the following checklist. Otherwise, contact your dealer.

✓ **Check List**

Content	Cause	Treatment	Remark
When table is not moving up and down	Checking connection power cable	The switch POWER "O" position. Connect the power cable to outlet.	
	Checking Power switch " On"	The switch POWER "I" position Verify Green LED light.	
	Check Fuse condition	Refer "Exchange of Fuse "	
	Knee Safety Switch	Make sure that safety switch located at bottom of table is operating.	

■ **Reference**

Ⓢ **Specification & Functions**

- ✓ Dimension of external : 1500*670*670mm(H)
- ✓ Size of Table : 1500 * 640mm
- ✓ Height of Table: Lowest 670~ Highest 1,315mm
- ✓ Speed of up/down of table : 38mm/sec
- ✓ Weight Allowance : 150kg
- ✓ Rated Voltage: AC220-230V 50/60Hz 5A
- ✓ Duty Cycle : 2min on/ 18min off
- ✓ Power Consumption : 240VA
- ✓ Product Weight : 52kg

- ※ The product specifications are subject to change without notice.
- ※ This product is not available chair.

■ Management & Inspection

Ⓢ Routine Management

- ✓ When not in use the product, turn off the power switch.
- ✓ Do not place the product at dusty place.

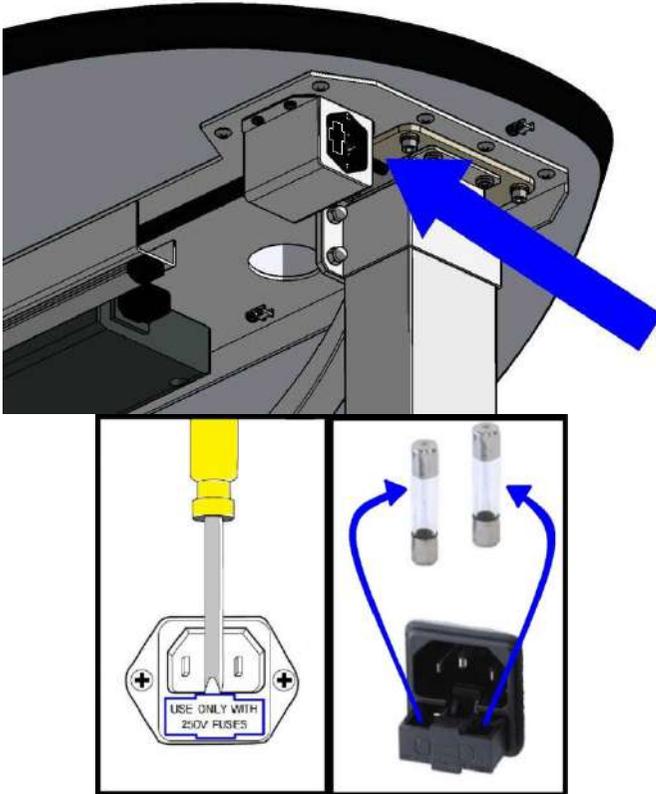
Ⓢ Exchange of Fuse

	<p>Warning</p>	<p>Replace fuse after removing power code. Otherwise, you might be receive electrical shock.</p>
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		Use rating fuse only.
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Unplug the power cable and make sure that verifying power switch's place is the "O" position.

- ✓ Open the fuse folder using screwdriver or pointed tool, the folder with the lower end of the input socket.
- ✓ Replace new fuse(5A 2EA).



Make sure that power switch is off.

■ Warranty Period

The warranty period from the date of purchase of the unit for one

year are excluded from the warranty repair damage due to the negligence of the user.

■ Precautions of Use.

- Ⓢ Do not use in temperatures lower than minus 10 °
(Celsius: -10°C / Fahrenheit: 14°F)
- Ⓢ Make sure there are no problems with the unit and overall patient.
- Ⓢ Take appropriate action, such as when the patient is found in the apparatus and over the patient, to a safe state, and stops the operation of the equipment.
- Ⓢ When installing the equipment, please note the following:
 - √ Install the equipment where the water does not reach.
 - ✓ Install in a place that will not cause adverse effects, such as from the air, including pressure, temperature, humidity, ventilation, sunlight , dust, salt, and sulfur.
 - ✓ Be careful and note that the steady-state impact (including during transport) tilt, vibration, etc.
 - ✓ Do not install in a location with a storage area, etc. chemicals or gases.
 - ✓ Be careful and note power consumption, power frequency, and voltage and capacitance values allowed.

- Ⓢ Please note the following when using the equipment.
 - ✓ Check the connection status of the switch, if the device is working correctly.
 - ✓ Make sure all cords are connected correctly and completely.

■ **Storage and Management after use.**

- Ⓢ Disconnect the power code after returning to the previous state, and use power table position.
- Ⓢ Do not force such as holding the cord when you disconnect cords subtracting.
- Ⓢ Be careful of followings for the storage area.
 - ✓ Keep out of reach in the water
 - ✓ Please keep in place that will not cause adverse effects, such as air, including from the pressure, temperature, humidity, ventilation, sunlight, dust, salt, sulfur
 - ✓ Note that the steady-state impact (including during transport) inclination, vibration, etc.
 - ✓ Do not store in a location with a storage area such as chemicals or gases.
- Ⓢ Keep clean after cleaning such as accessories, cord, etc.
- Ⓢ Clean out equipment thoroughly to avoid for next use.

■ Installation Guide

※ All our products are tightening bolts.

※ Need the following tools.

- Drivers (+)
- Hex Wrench.
- Spanner(10mm)

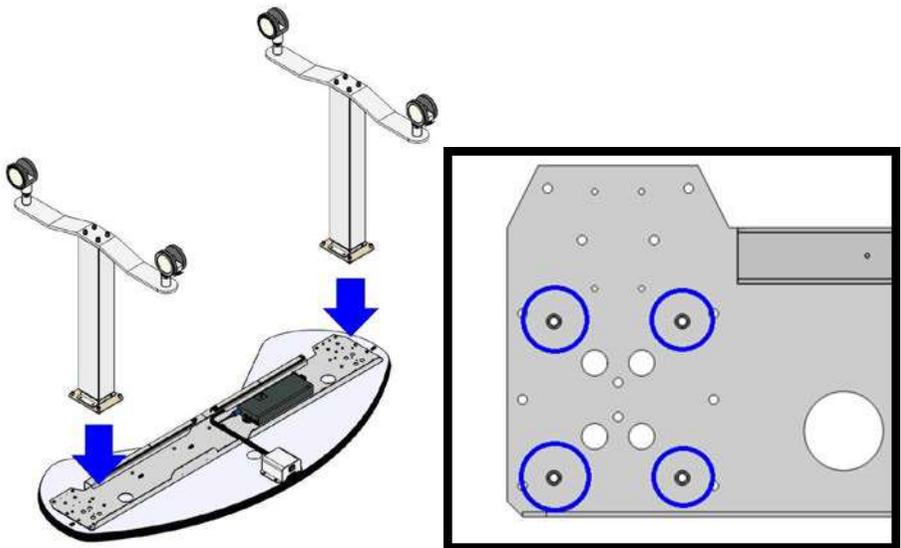
1. Check out all parts from the part box.

- ① Lift Column Base(2 units)
- ② Reinforce Band(Brackets are fastened)
- ③ Top Table
- ④ Power Cable(1 unit)

2. Place the table below for assembly.

3. Assemble column base into the table.

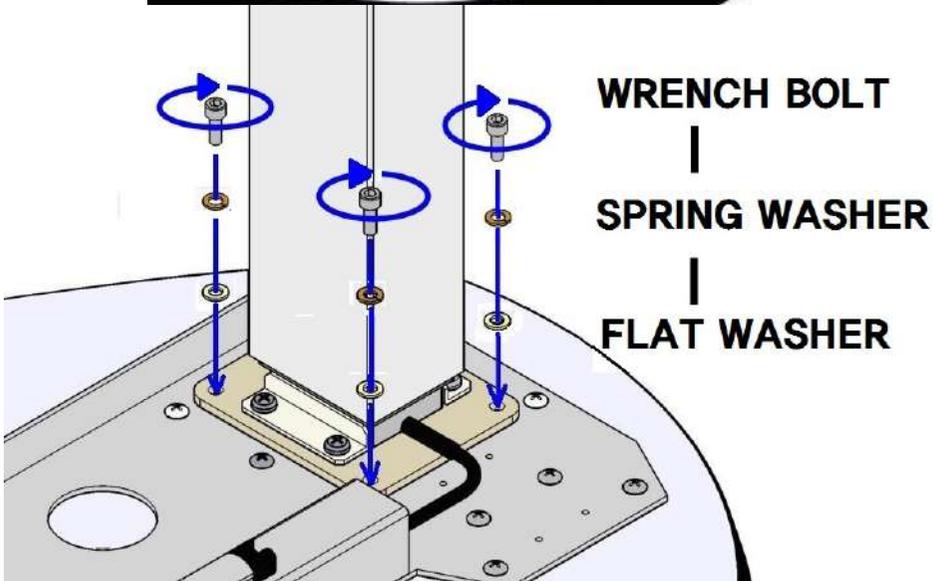
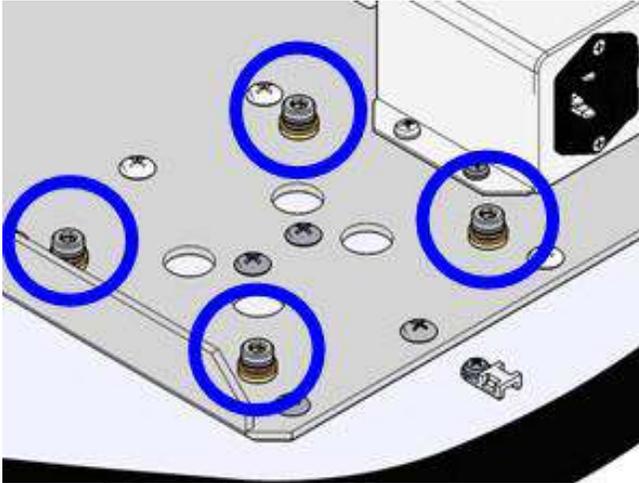
- ① Place lift column on the bracket of table bottom.



② Tighten list column bracket(Use wrench driver)

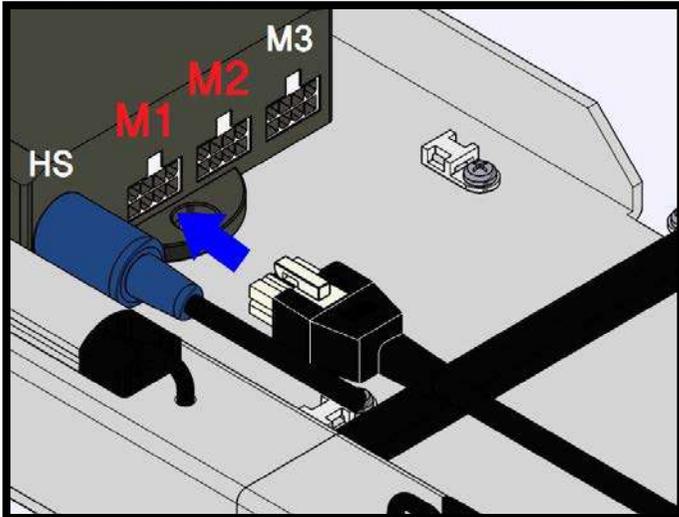
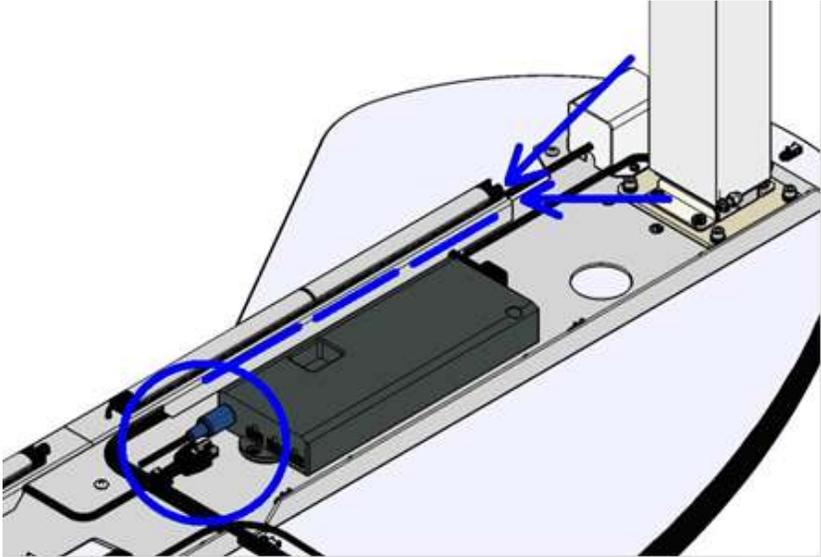
(Tighten the bolt with a wrench in order - spring washer – flat washer – wrench bolt from below)

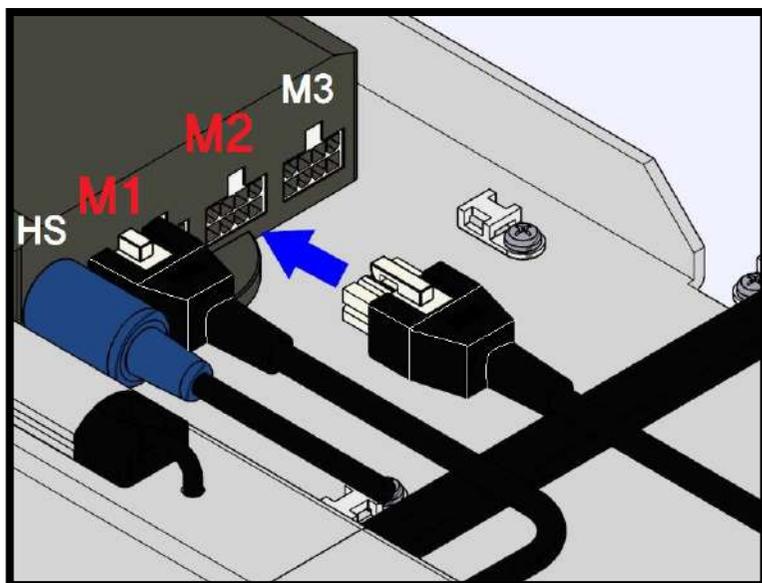
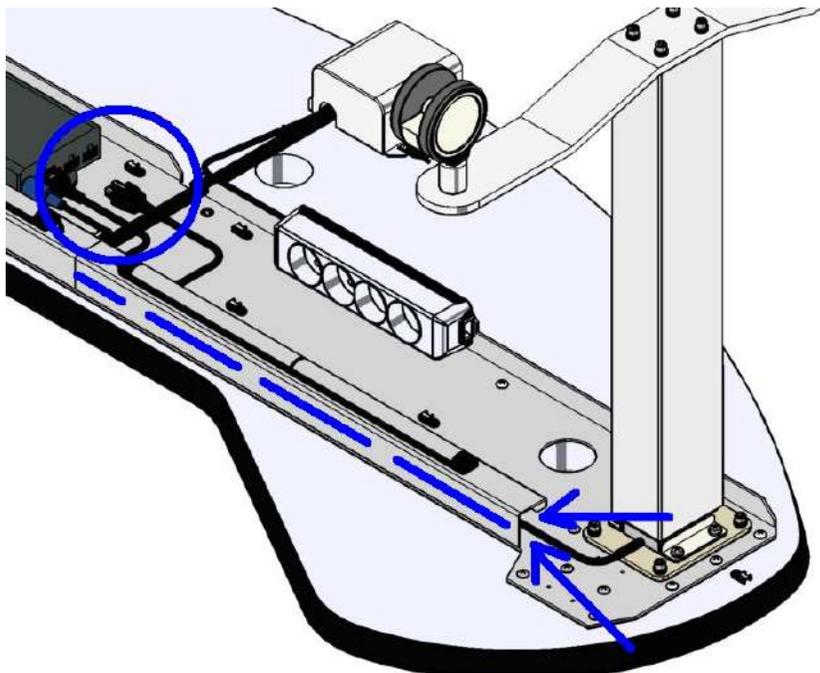
※ Bolt & Washer were fastened to the bottom of table.



4. Connect the controller to the connector of the lift column.

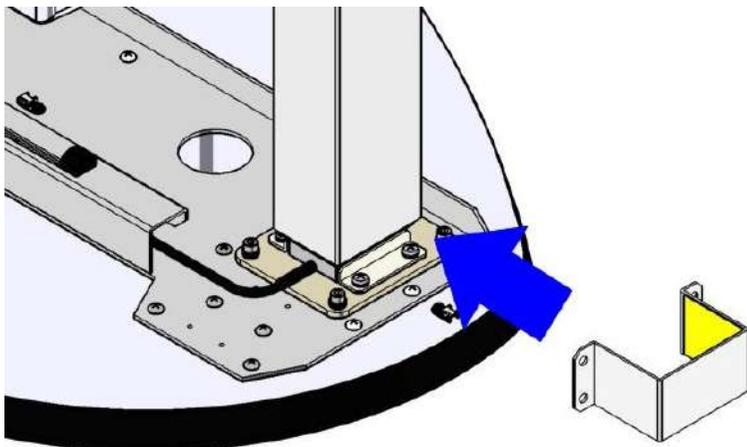
The input terminal of the three controllers must M1, M2 the two input marked by the arrow of the connector cable – for connecting to the terminal after arrange to pass.



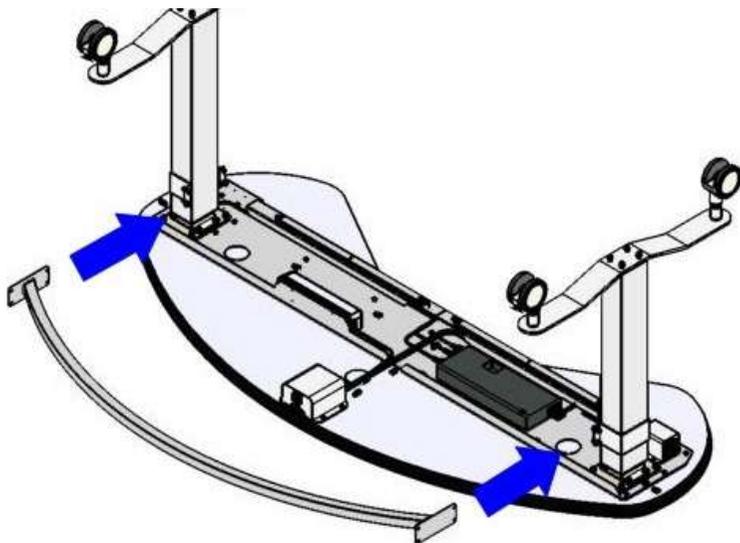


5. Assemble reinforce band.

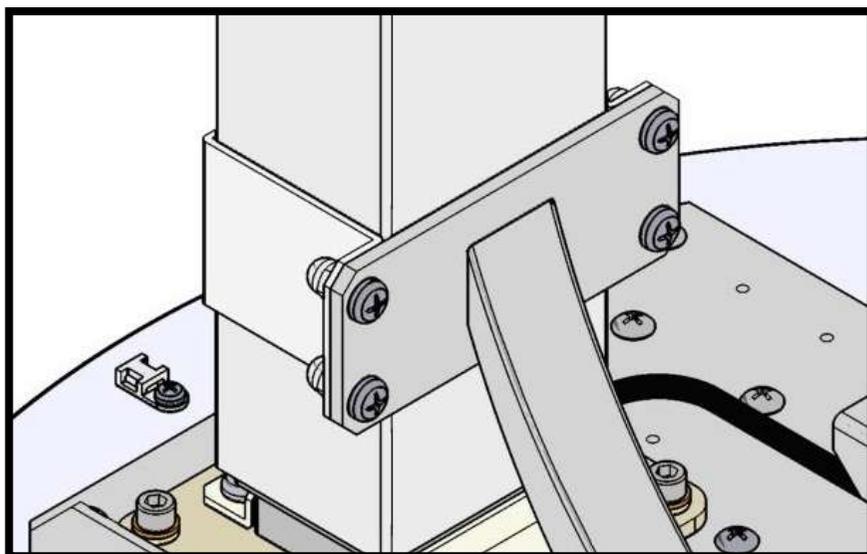
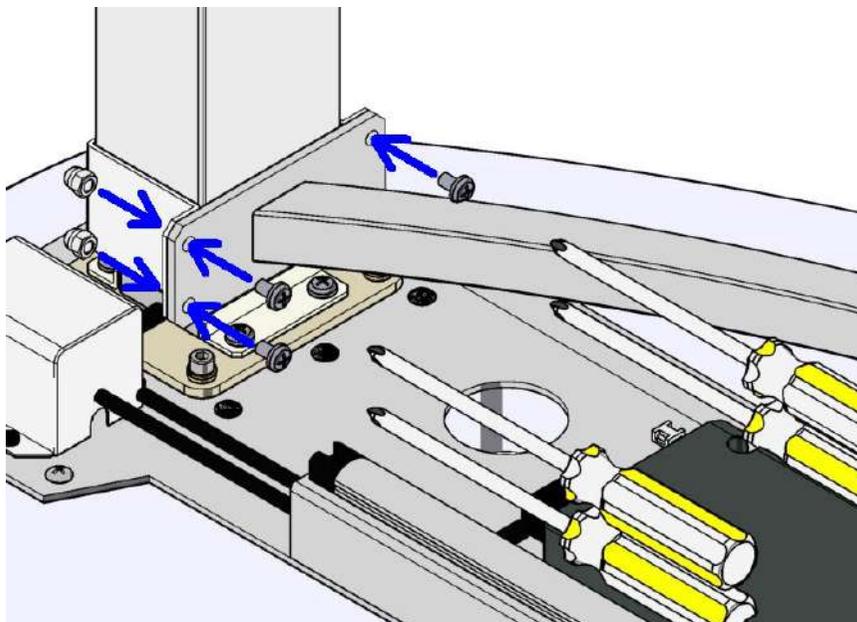
- ① Replace the bracket on the lift column. Use a bolt with cap nut is fastened to the reinforce band bracket.
(10mm spanner, hex wrench used)



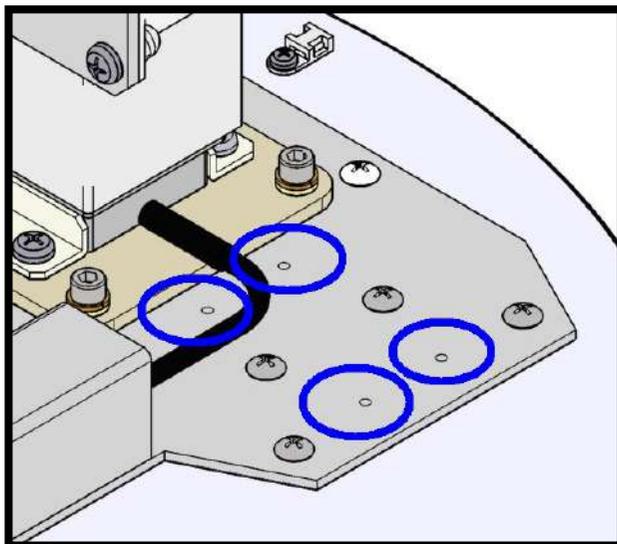
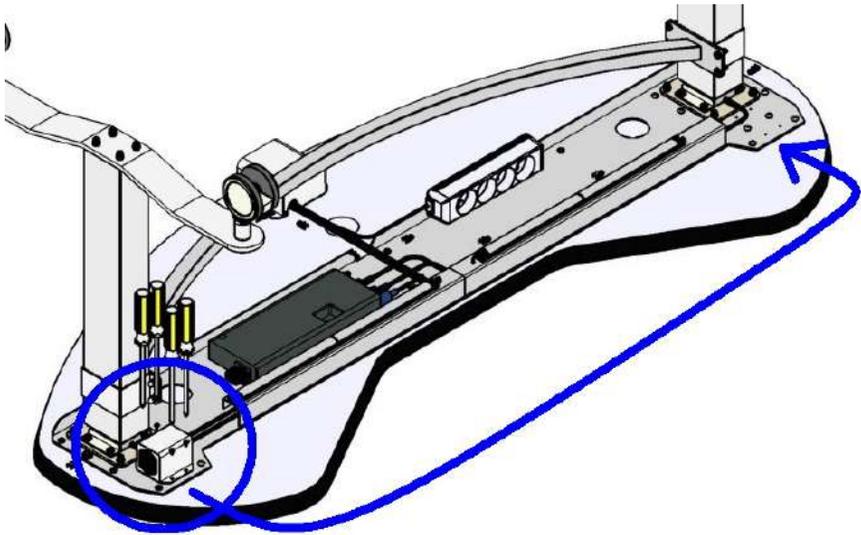
- ② Place reinforce band between lift column.



- ③ Tighten bolt and cap nut with reinforce band and reinforce band bracket.

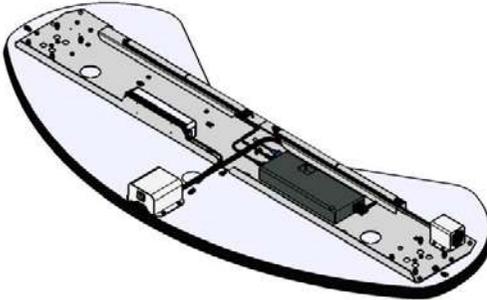


6. Please see the previous mounting on the other side. It could be able to do depending on the power input into the indoor environment.

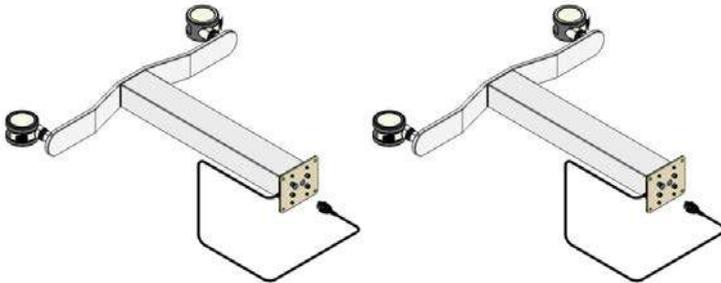


■ Components of Box

① Table



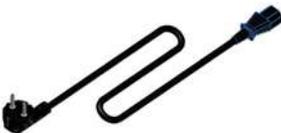
② Lift Column Base(2 units)



③ Reinforce band, Reinforce band bracket



④ Power cable



■ Mentioned Item

1. **Product Name(Model Name):** Refraction Table(RT-400)
2. **Manufacturer:** Rodek Co., Ltd
Address : 456 Bun-Gil 61(Song Jung-Dong), Jikji Dae-Ro
Hungduk-Gu, Cheong-Ju City, Chungcheong Buk-
Do, Korea
3. **Tel:** +82-(0)43-274-2520 **Fax:** +83-(0)43-275-2520
4. **Home Page:** <http://www.Rodek.co.kr>
5. **e-mail:** Rodek@rodek.co.kr
6. **Date & No of Manufacturing:** Marked on product label.
7. **Weight & Packing Unit:**
Net Weight : 52kg & 1Box
Gross Weight: 65kg
8. **Rated Voltage & Power Consumption:**
AC220V 50/60Hz 5A, 240VA
9. **Manual Version: 2021/10 (VER1.3)**

■ Map

