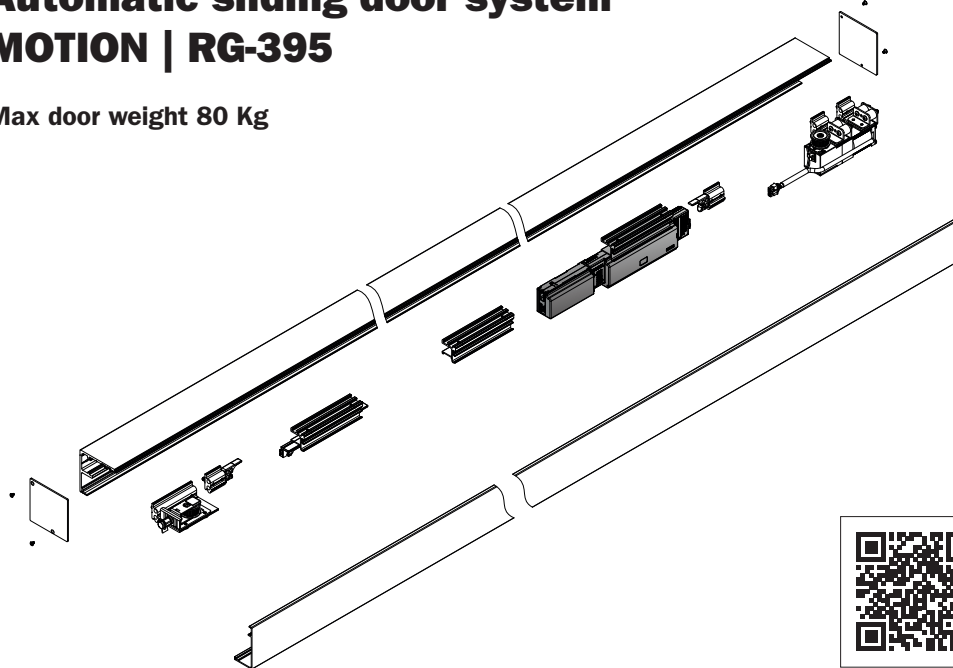


## Automatic sliding door system MOTION | RG-395

**Max door weight 80 Kg**




[Instruction film on YouTube »](#)



# Content

*Please read the instruction carefully before starting your installation.*

1. General safety regulation	P1~2
2. Technical Data	P3
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 **ATTENTION** It might cause damage to property or user injury under incorrect usage.

 **WARNING** It might cause serious injury or death under incorrect usage.

# 1. General Safety Instruction

## **WARNING**

**Do not attempt to operate until you have read thoroughly and understand completely all instructions, rules, etc. contained in this manual. Keep this manual and review frequently for continual safe operation.**

- 1.1 In order to maintain the accuracy and performance, the automatic sliding door must be correctly operated and installed under favorable environmental conditions.
- 1.2 Inadequate operation may cause damages to the automatic sliding door and extreme cases may cause serious injury to the operator.
- 1.3 **MOTION i series** is prohibited to install as security or storm protected device, in escape route or fire and smoke doors, it's designed for indoor use.
- 1.4 Suitable for door weight 20~80Kgs / single sash.
- 1.5 Do not allow children to play with the device.
- 1.6 The appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
- 1.7 Frequently examine the installation for imbalance and signs of wear or damage to cables, rollers, and all other mounting accessory etc. . Do not use any components if repair or adjustment is necessary.
- 1.8 Disconnect the power supply before installation, cleaning or other maintenance. If the system is connected to the cable comes directly from the wall, ensure the power supply is de-energized.
- 1.9 The installer must to check that the temperature range marked on the device is suitable for the location.
- 1.10 Before installation, check all components are in good mechanical condition.

1.11 After installation, ensure that the mechanism is properly adjusted

1.12 **MOTION i series** followed EN16005 low energy operating standard, offering below advantages:

- The dynamic force measuring at any point of the closing edges is not hazardous.
- The system does not need to equip with protecting sensor due to the system is high safety level.
- If considering for usage under special condition for people such as elders, children and disable people, additional safety sensors are optional and can be equipped.

1.13 Please follow below in order to use the correct door to **MOTION i series**. Installation, material and construct design of door shall be according to EN 16005

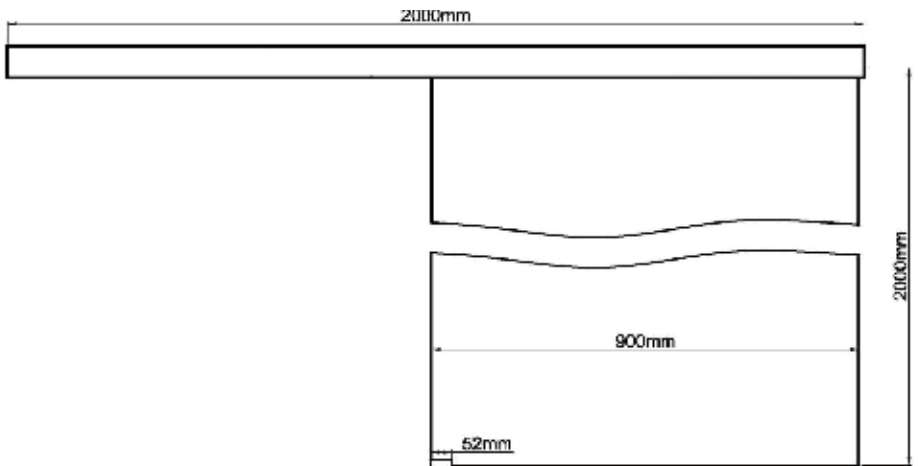
Type of door : Only tempered (ESG) or laminated (VSG) glass.

Calculation of the door weight:

Door weight = width (cm) X height (cm) X glass thickness (cm) X0.0026

Example.Width 90 X Height 200 X Glass thickness 0.8 X0.0026=37.44Kgs

(Reminder: Please include the weight of handle.)





## 2. Hazards Technical Data

### **ATTENTION**

#### **Power supply**

Power supply: 100~240V AC ; 50/60Hz

Circuit protection: 1 A

\*Disconnection devices must be in accordance with the wiring rules.

Cable type: 3 X 0.75mm<sup>2</sup>

\*If the power supply cord is damaged, it must be replaced by the manufacturer or its service agent or similar qualified persons in order to avoid a hazard condition.

### **WARNING**

#### **Power consumption without external accessories**

Stand-by-mode: 5W

Automatic-mode: 40W (Max.)

Door weight: 20~80KGs/ single sash

Operating temperature: 5~40 °C

Operating humidity: 30~70 %

Operating noise: Max.55dB (A)

### 3. Safety mounting requirement

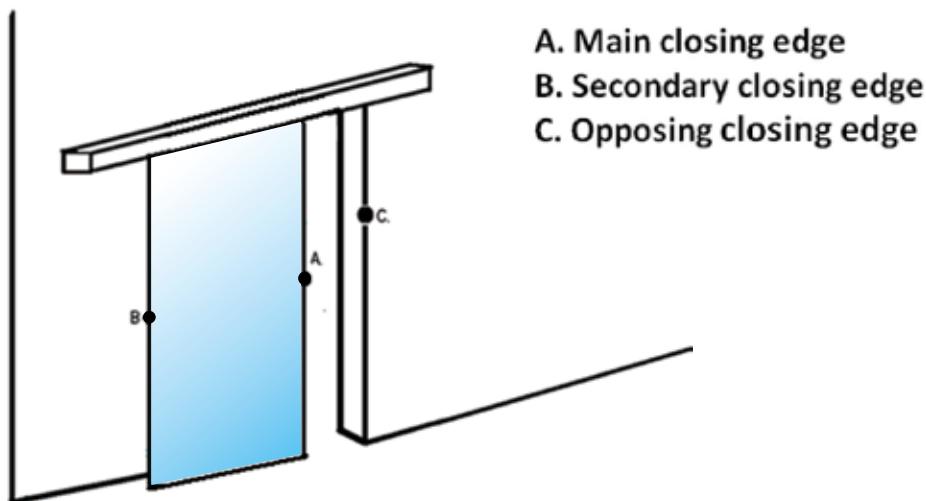
The mounting of the MOTION i Series can only be performed by qualified personnel.

- 3.1 The mounting of the electrical equipment can only be performed by electrician.



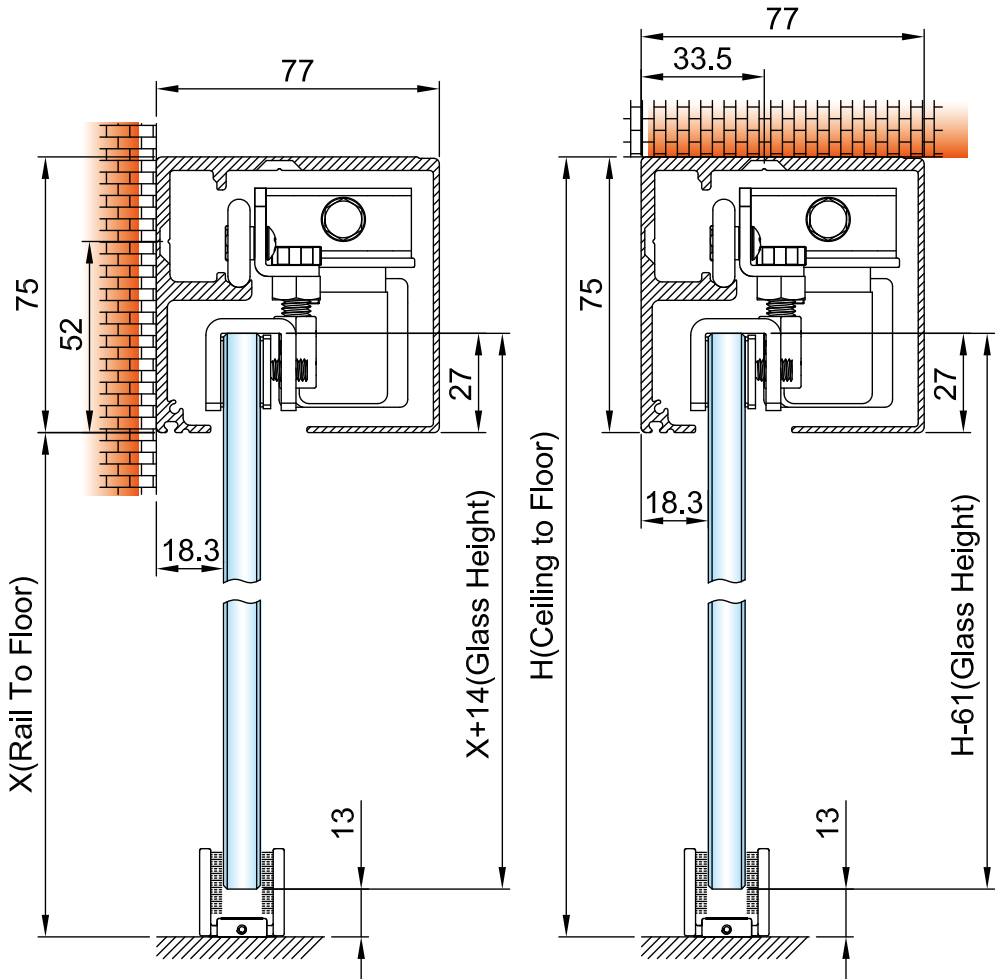
- 3.2 Risk of crushing/ shearing /impact

The risk of crushing, shearing and impact might occur while the automatic door movement at main closing edge / secondary closing edge.



## 4. Installation

### 4.1 Measurement (Installation without side panel)

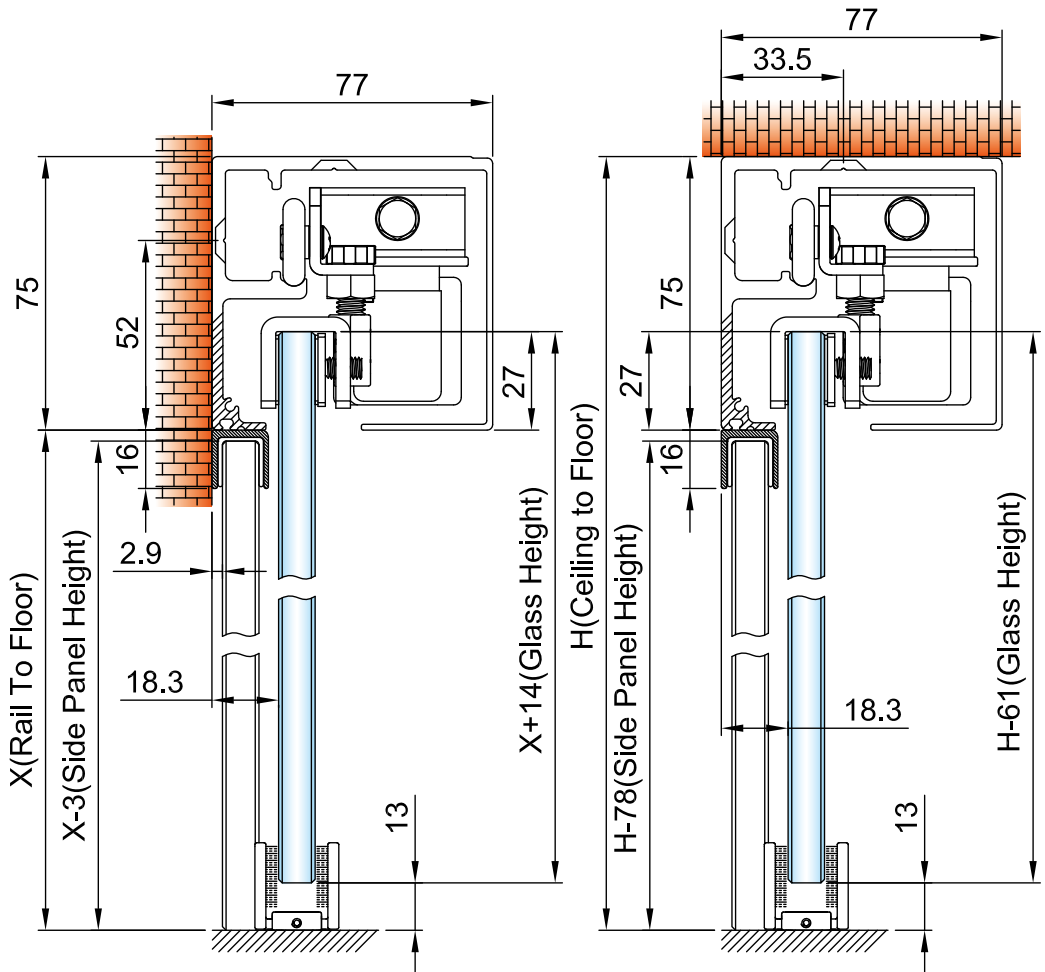


### **ATTENTION**

**MIN. GLASS DOOR WIDTH = 750MM**

**MAX. HEIGHT -WIDTH GLASS DOOR RATIO = 2.5 : 1**

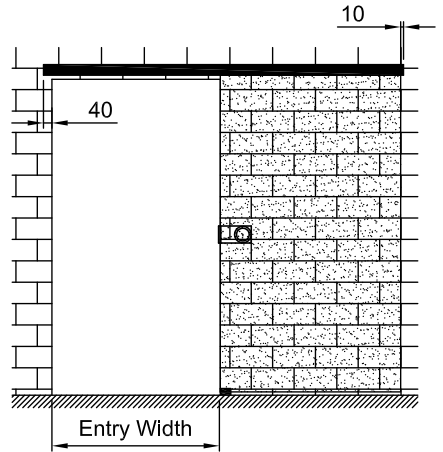
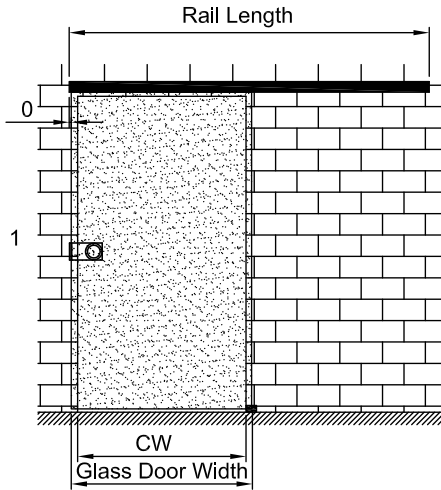
(Installation with side panel)



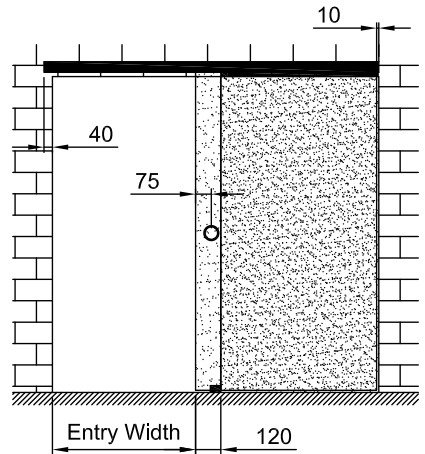
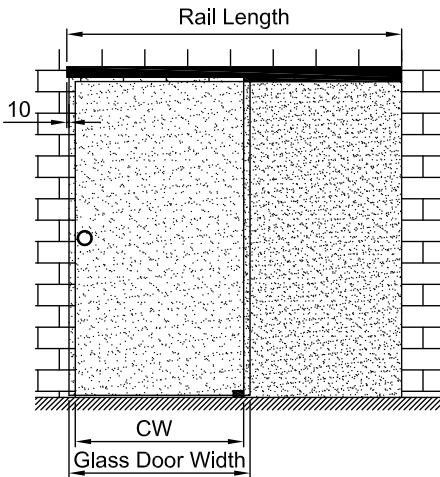
## ⚠ ATTENTION

**MIN. GLASS DOOR WIDTH = 750MM**

**MAX. HEIGHT -WIDTH GLASS DOOR RATIO = 2.5 : 1**



Standard Rail Length 2000mm , CW MAX. = 945mm  
 (Optional Rail Length 2400mm, CW MAX. 1145mm)  
 CW = Clear Opening Width = Entry Width  
 Glass Door Width = CW + 60  
 Rail Length = (2 X CW) + 110



Standard Rail Length 2000mm , CW MAX. = 1005mm  
 (Optional Rail Length 2400mm, CW MAX. 1205mm)  
 CW = Clear Opening Width  
 Glass Door Width = CW + 60, Rail Length = (2 X CW) - 10  
 Entry Width = CW - 120, Side Panel Width = CW - 50

## 4.2 Performing safety analysis



4.2.1 Check if the floor is even.

4.2.2 Please use only tempered (ESG) or laminated (VSG) glass with no sharp edge.

4.2.3 General data records

© Location :

---

---

© Door sashes ☐ single sash ☐ double sash

© Door weight \_\_\_\_\_ kgs

*How to calculate your door weight:*

*Door height \_\_\_\_\_ cm Door thickness \_\_\_\_\_ cm Door  
width \_\_\_\_\_ cm Door weight = height (cm) X glass  
thickness (cm) X width (cm) X 0.0026 (density)*

4.2.4 Make sure all power supply is completely shut down during installation regardless of using the power cable directly through the wall or Formosa i Series power plug. The power cable or power plug can only be connected to power supply when installation is completed.

4.2.5 Ground wire is suggested to avoid electrical shock, you can use a separate ground wire or the power cable is equipped with ground wire.



4.2.6 Formosa i Series is only operated in low energy mode under EN16005 standard, but under some circumstances may require to equip with safety sensors to provide higher safety level to the users. Evaluation of individual and operating environment must be preceded.

4.2.7 Installation contractor

Company \_\_\_\_\_ Name \_\_\_\_\_

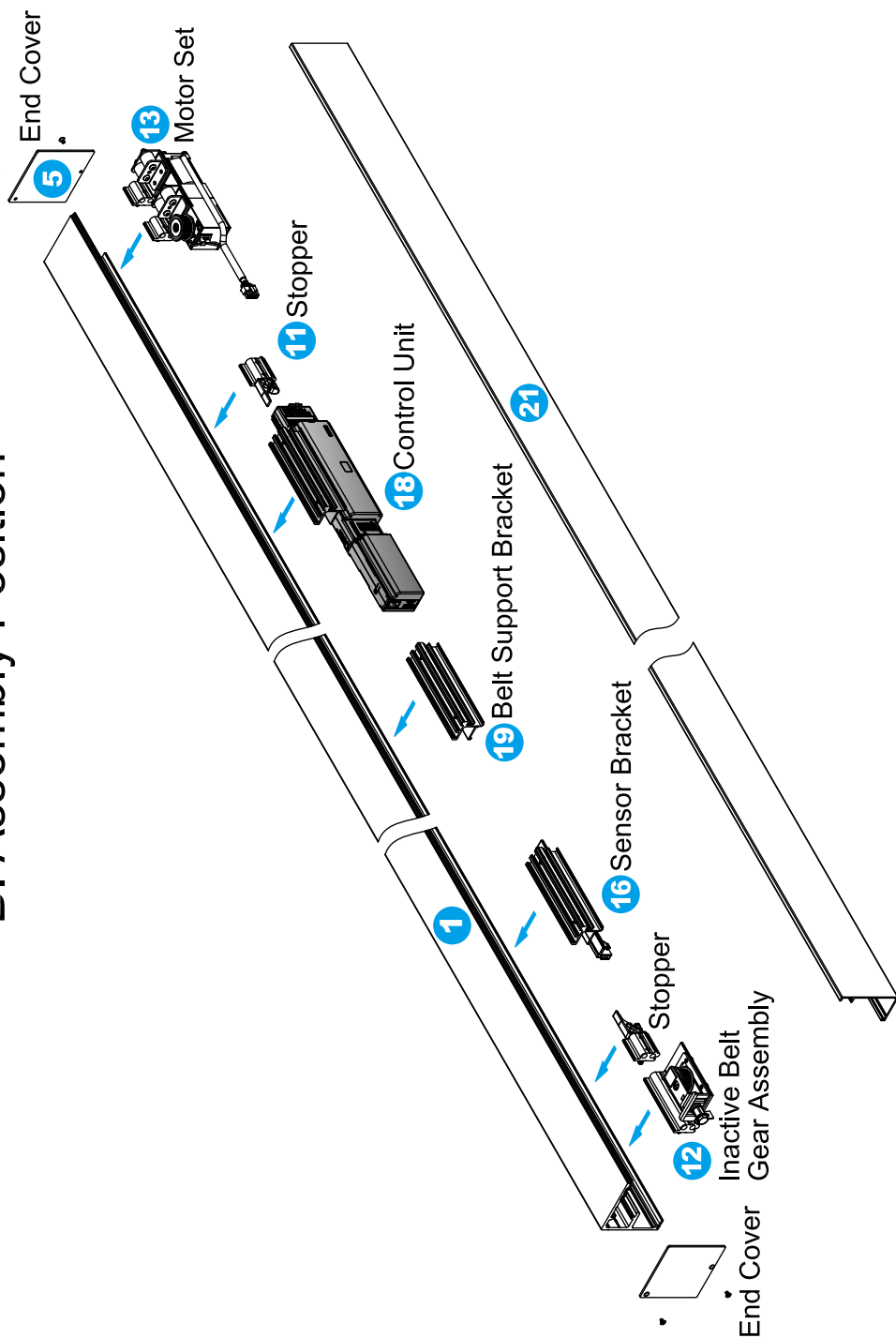
Date \_\_\_\_\_ Sign \_\_\_\_\_

4.3 Installation Instruction

A. Parts List

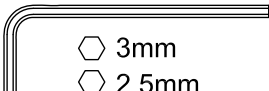
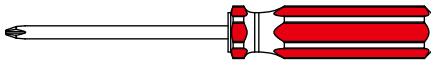
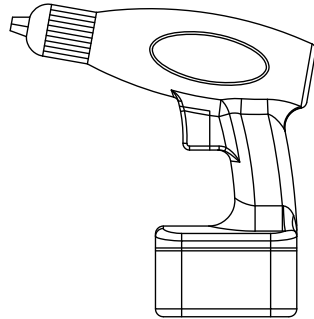
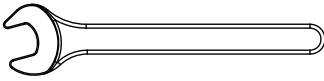
1. Track X1	2. Side Panel Top Rail X1 (Optional)	
3. Power Cable X1	NBR GrommetX2	4. Cable Channel Cover X1
5. End Cover X2	6. Cable Holder X10	
M3X5L Screw X4	END COVER A.	END COVER B.
	END COVER C.	
7. Power Ground Wire X1	8. Bottom Guide X1	
M4X5L Screw	Spring Washer	
9. Carriage X2	10. Belt Clamp & Screws	
	M4X14L	M4X20L
11. Stopper X2	12. Inactive Belt Gear Assembly X1	
13. Motor X1	14. Belt Clamp Cover X1	
	M4X18L Screw X2	
15. Belt X1	16. Sensor Bracket X1	
17. Belt Support Bracket X1	18. Control Unit X1	
19. Control Unit Bracket X1	20. Control Unit Cover X1	
21. Front Cover X1		

## B. Assembly Position

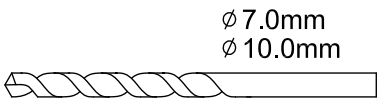




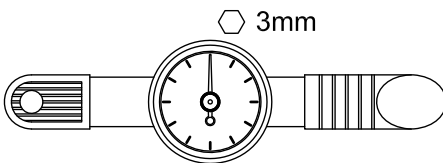
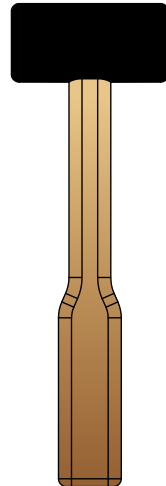
# C. TOOLS



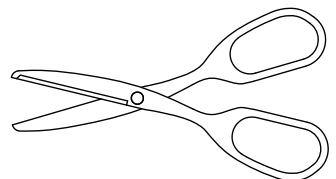
- 3mm
- 2.5mm
- 1.5mm



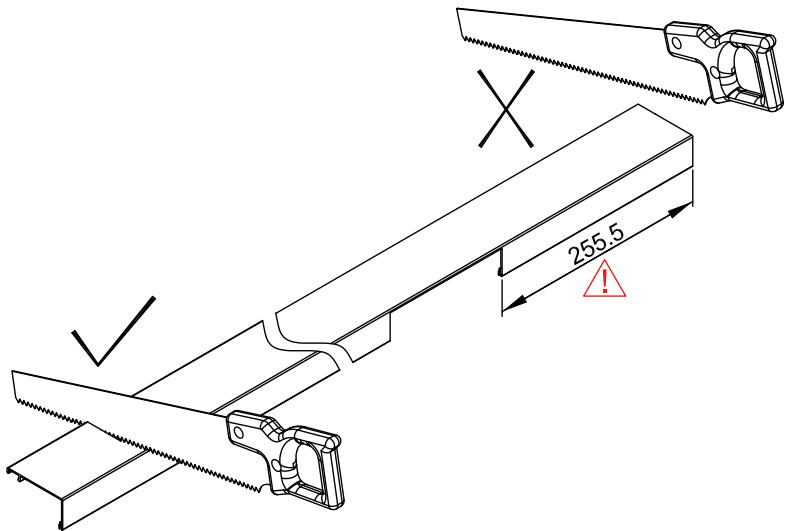
Ø 7.0mm  
Ø 10.0mm



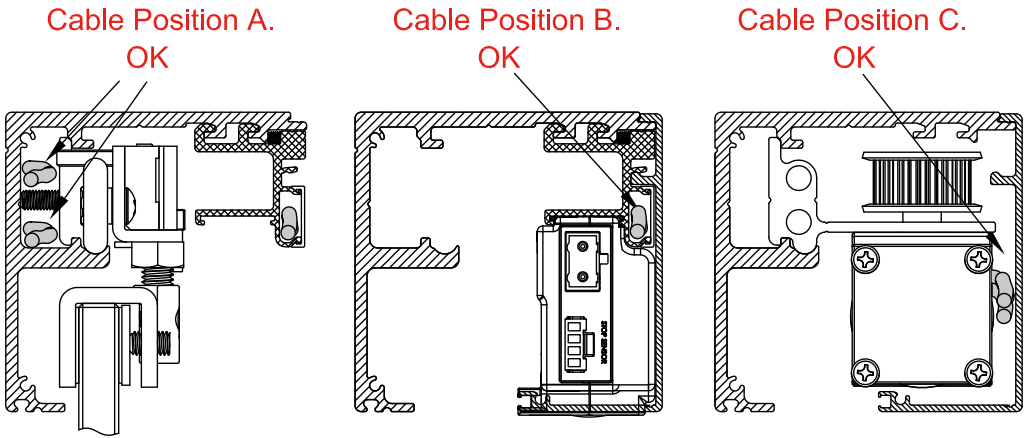
3mm



# D. TRACK & COVER PREPARATION FOR DESIRED LENGTH

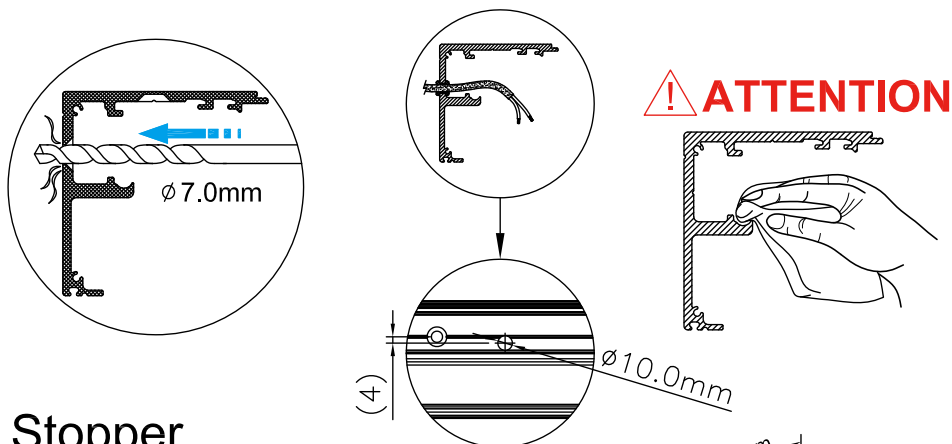


# E. SUGGESTED CABLE POSITION TO USE WITH CABLE HOLDERS

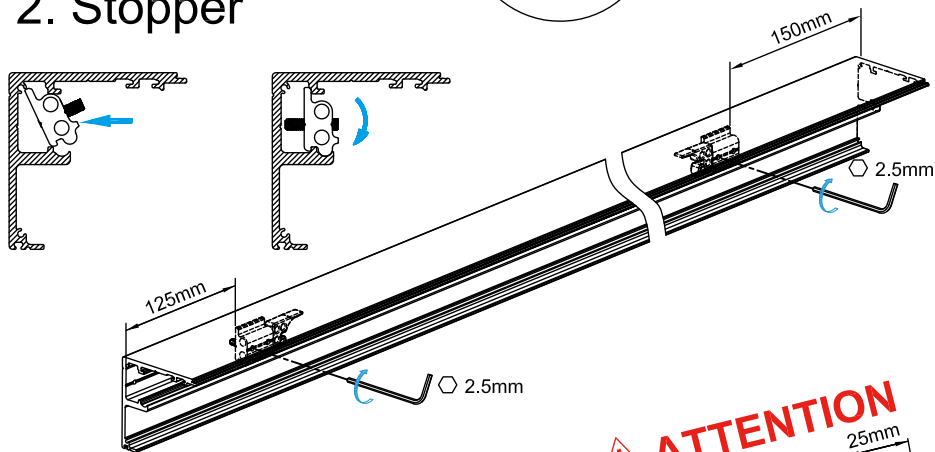


# F. INSTALLATION PROCEDURES

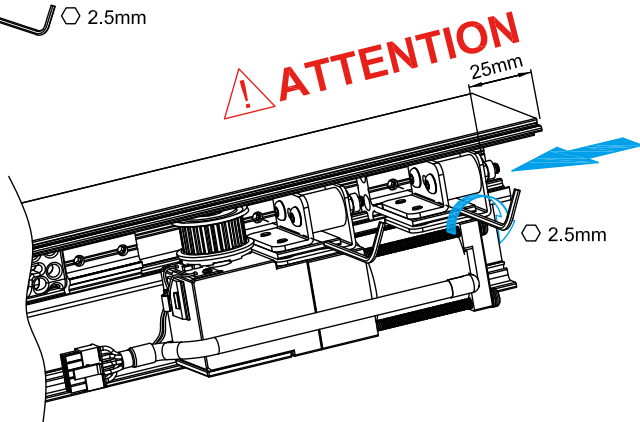
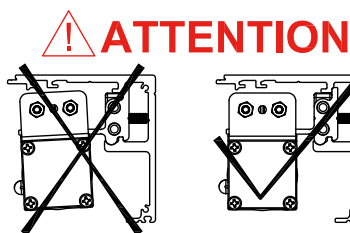
## 1. Screw and Cable Hole



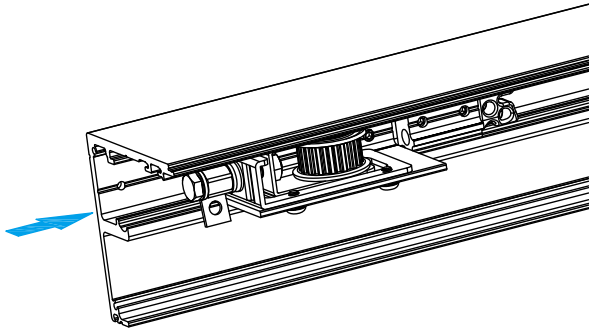
## 2. Stopper



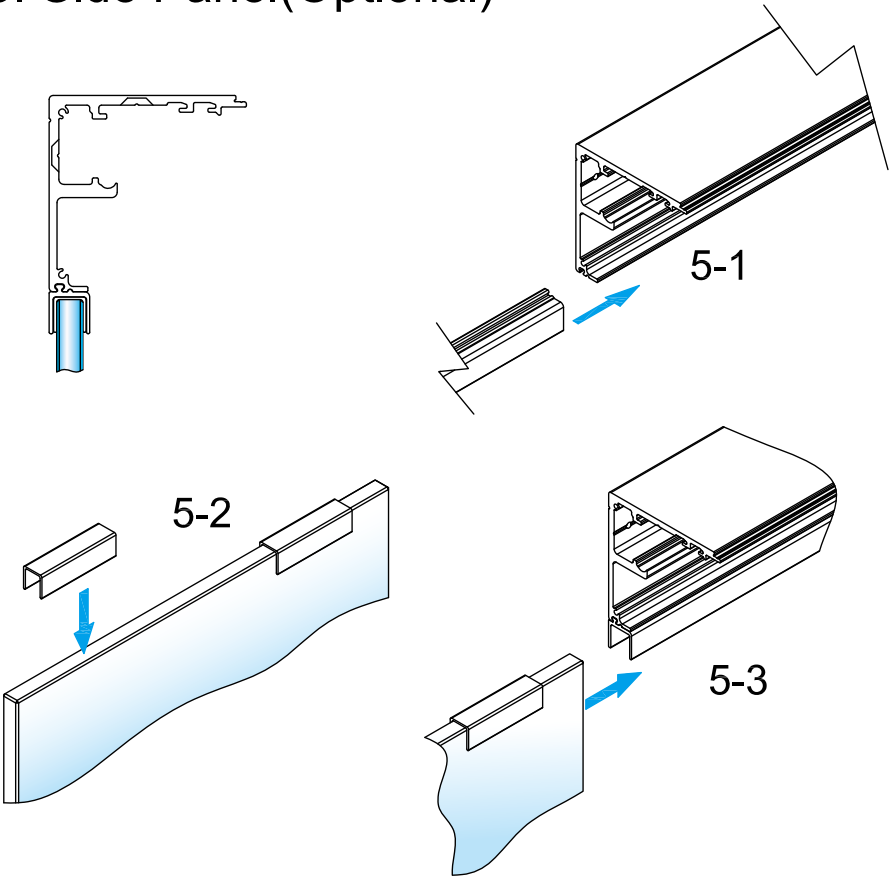
## 3. Motor Set



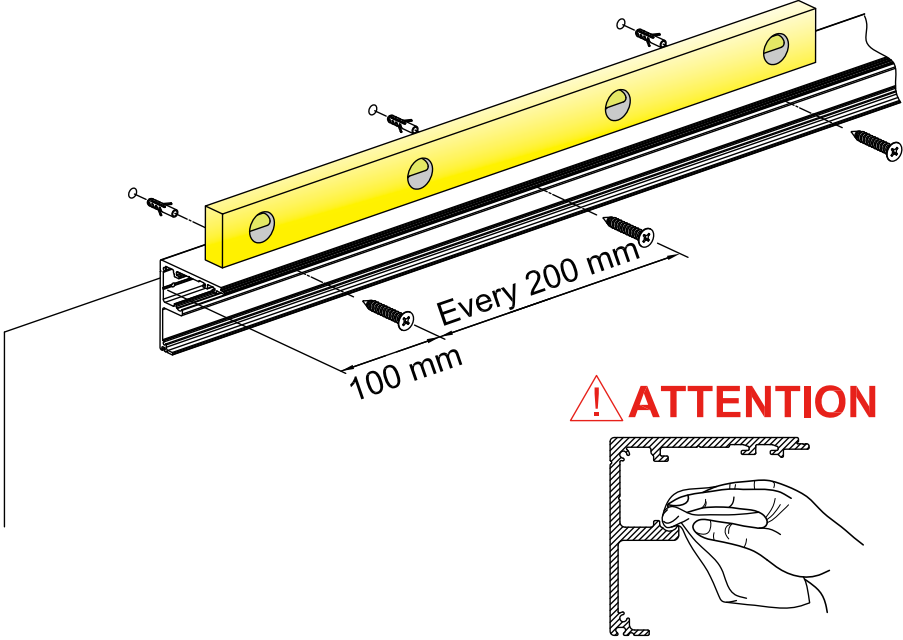
# 4. Inactive Belt Gear Assembly



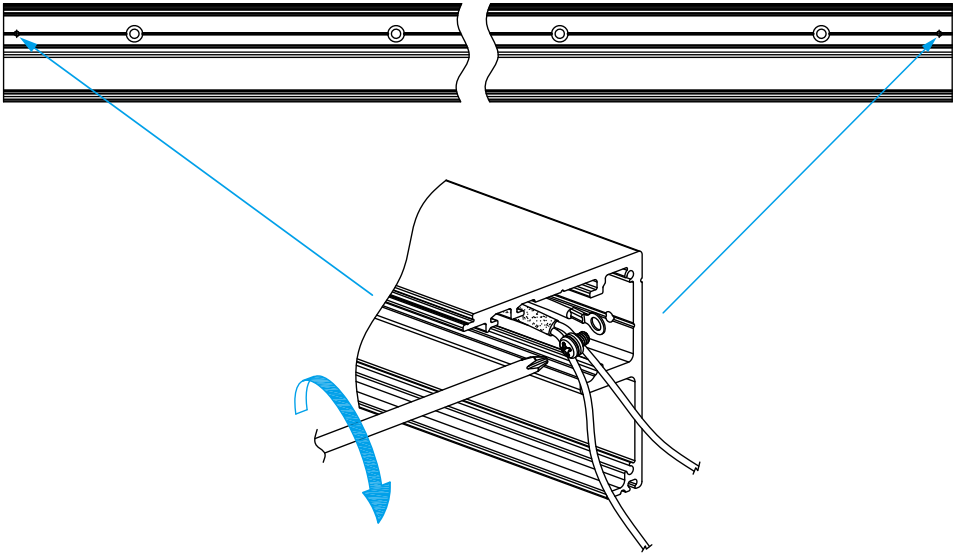
# 5. Side Panel(Optional)



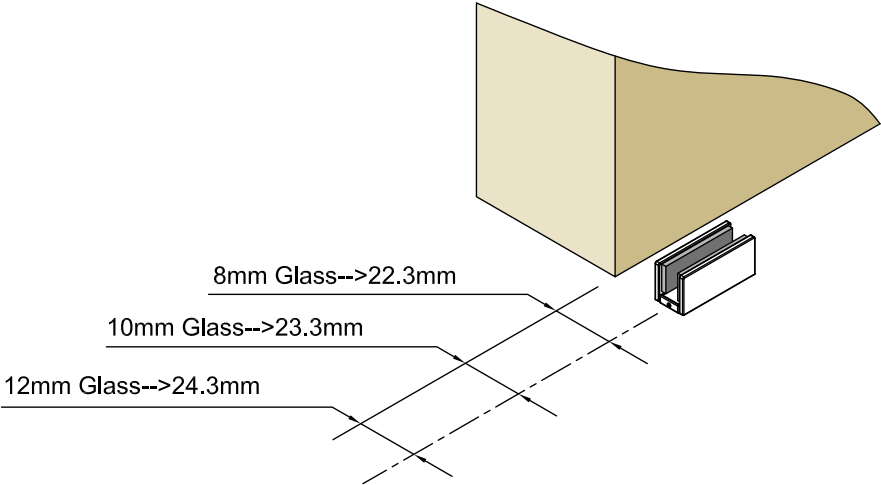
# 6. Track



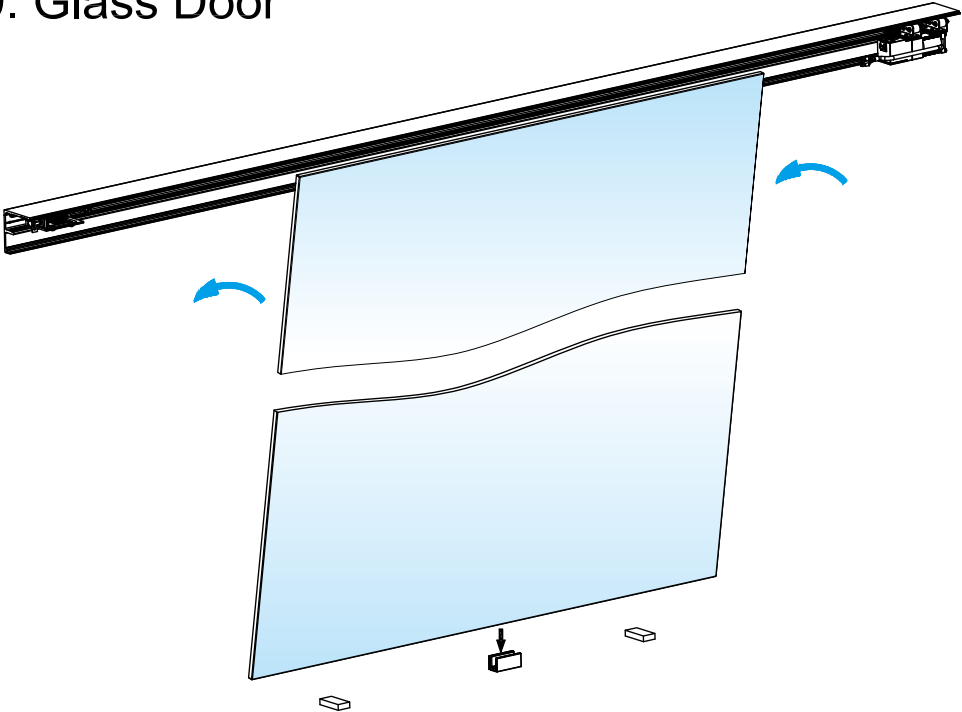
# 7. Power Ground Wire



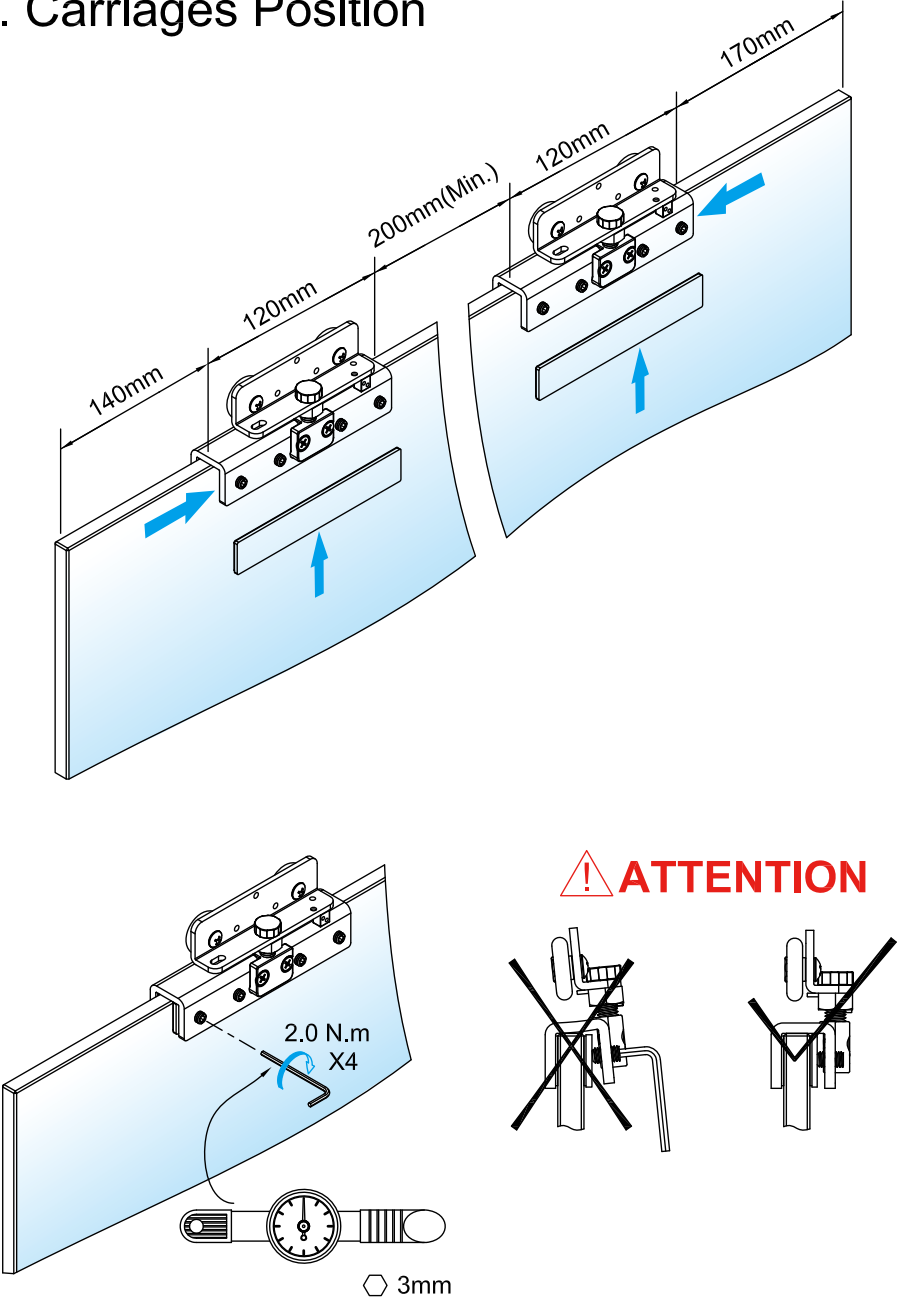
# 8. Adjustable Botton Guide



# 9. Glass Door

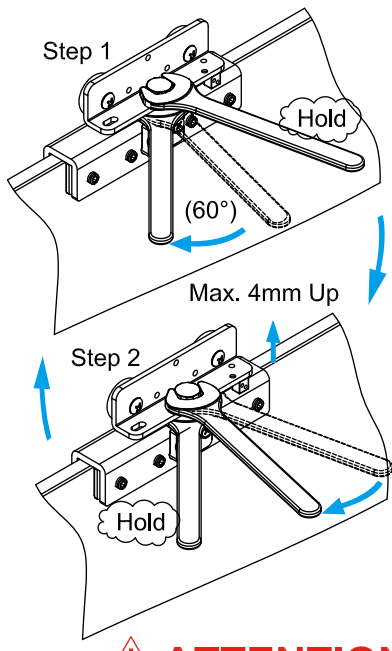


# 10. Carriages Position

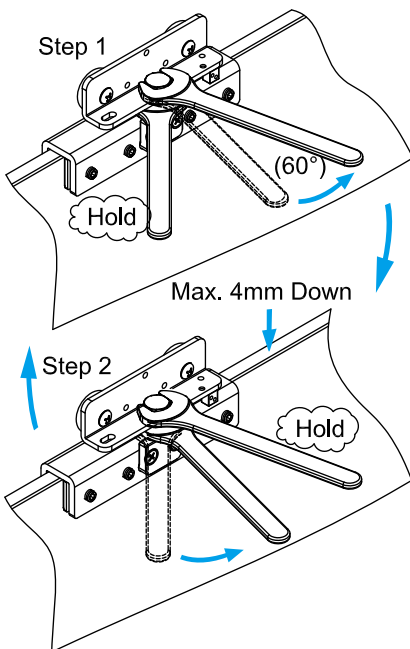


# 11. Door Height Adjustment(+/- 4mm)

11-1 Repeat step 1 & 2 to adjust door height UP



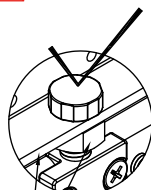
11-2 Repeat step 1 & 2 to adjust door height DOWN



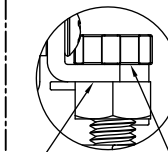
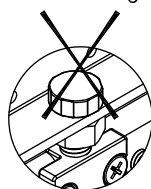
**ATTENTION**

In order to prevent door falling , please repeat step 1 & 2 to gradually turn adjustable screw

**ATTENTION**

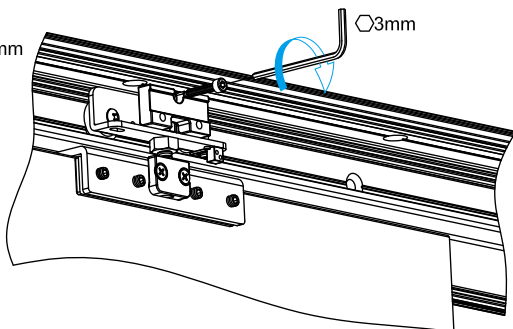
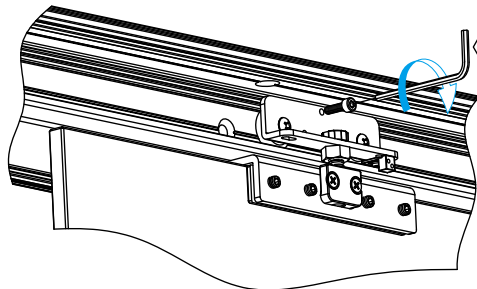
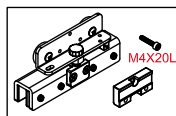
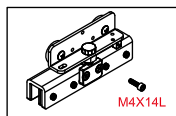


Bottom Nut Align To L Bracket When Tighten



Make Sure No Gap After Tighten

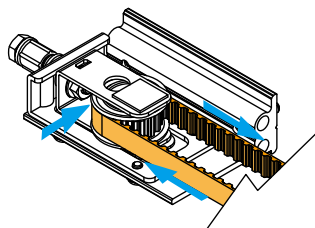
# 12. Anti-Falling Device



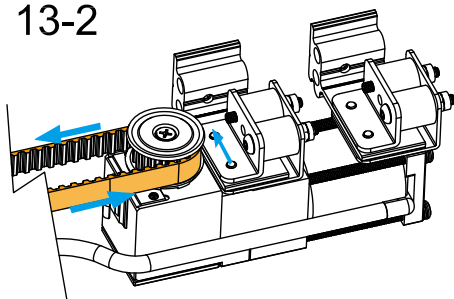


# 13. Belt

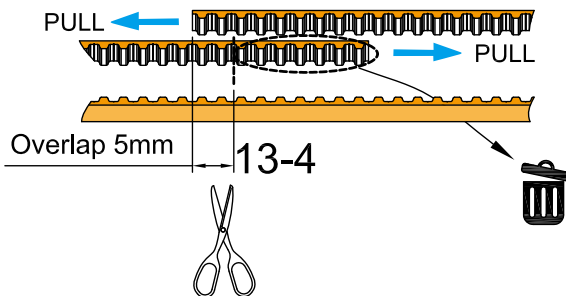
13-1



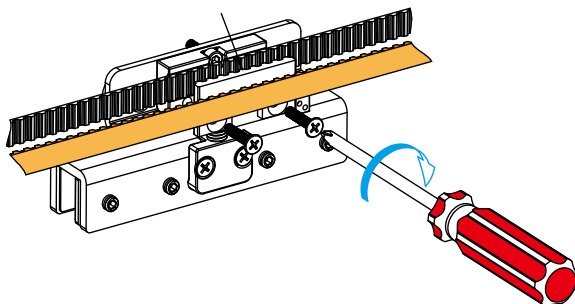
13-2



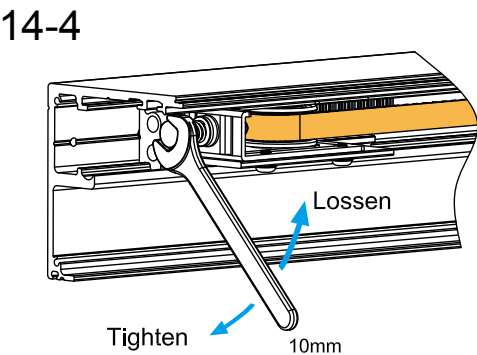
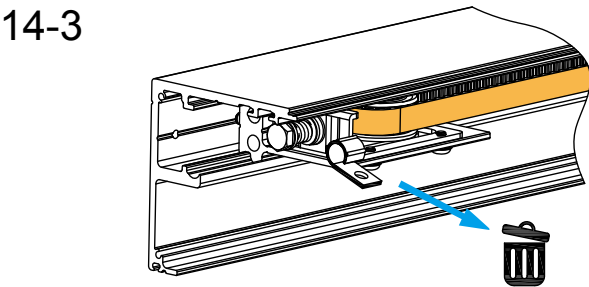
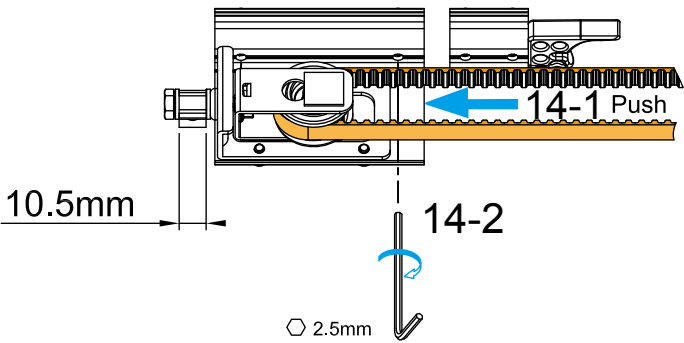
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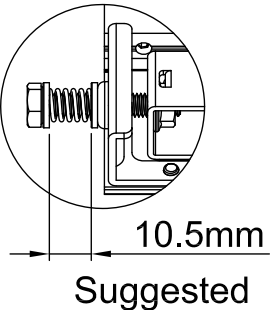
13-5



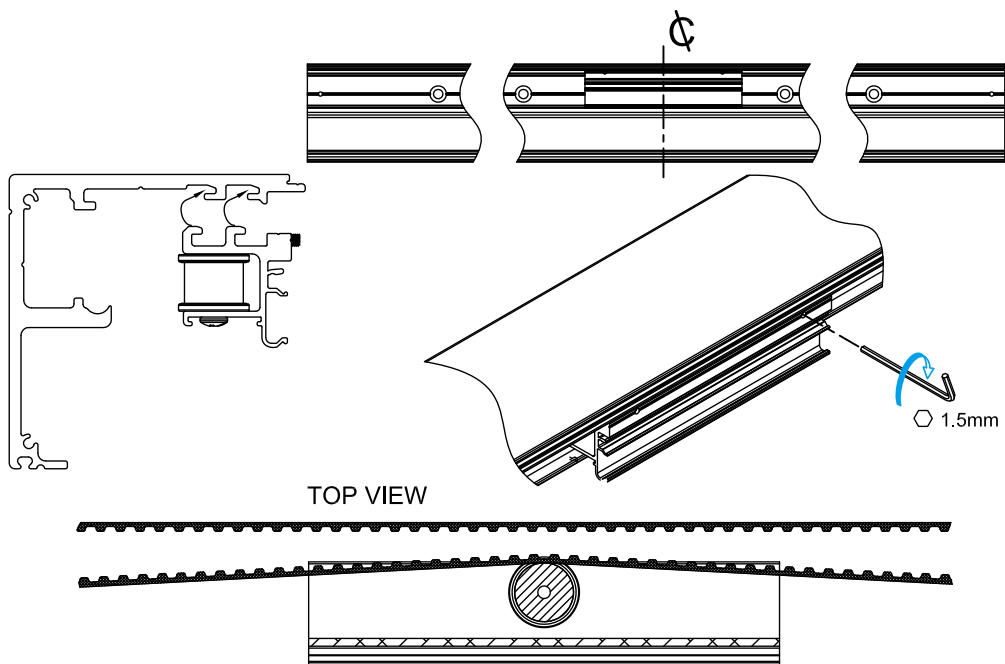
# 14.Inactive Belt Gear Assembly



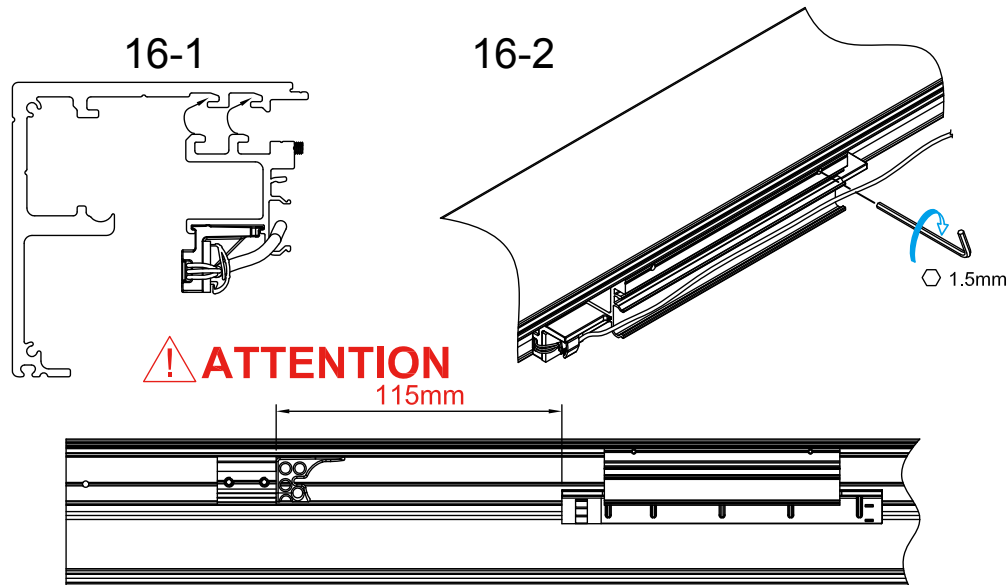
**! ATTENTION**



# 15. Belt Support Bracket

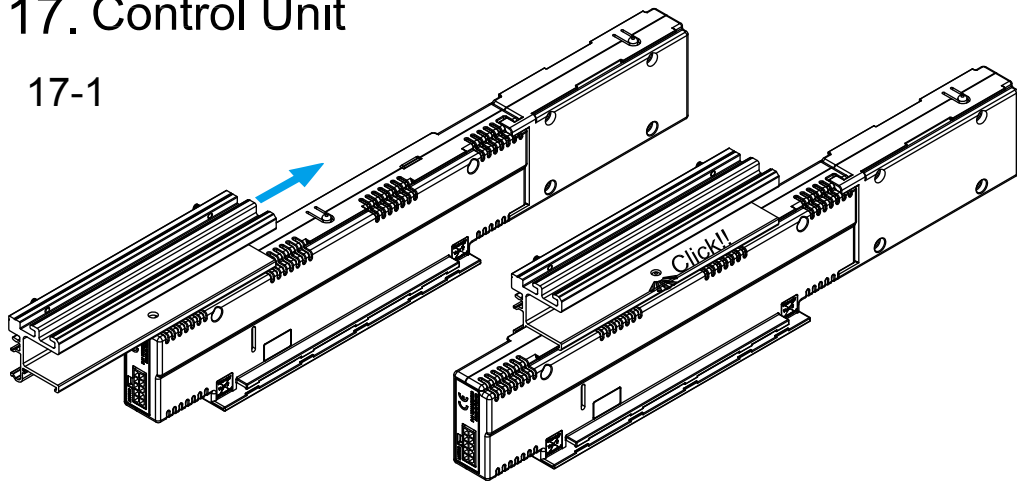


# 16. Sensor Bracket

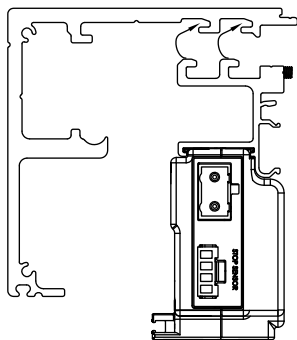


# 17. Control Unit

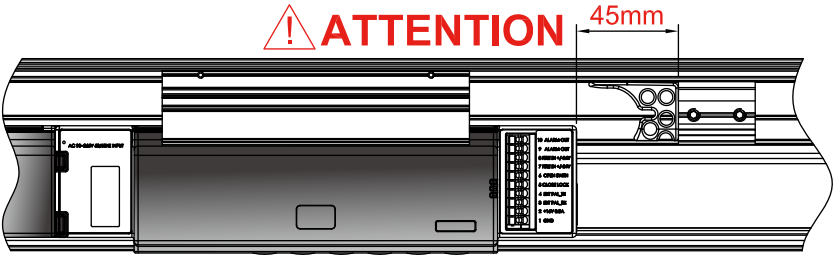
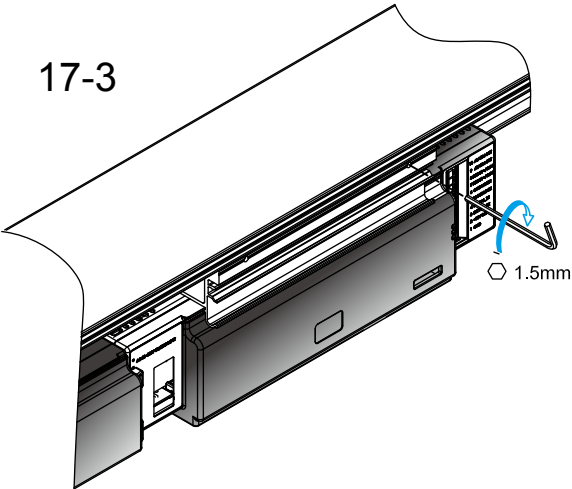
17-1



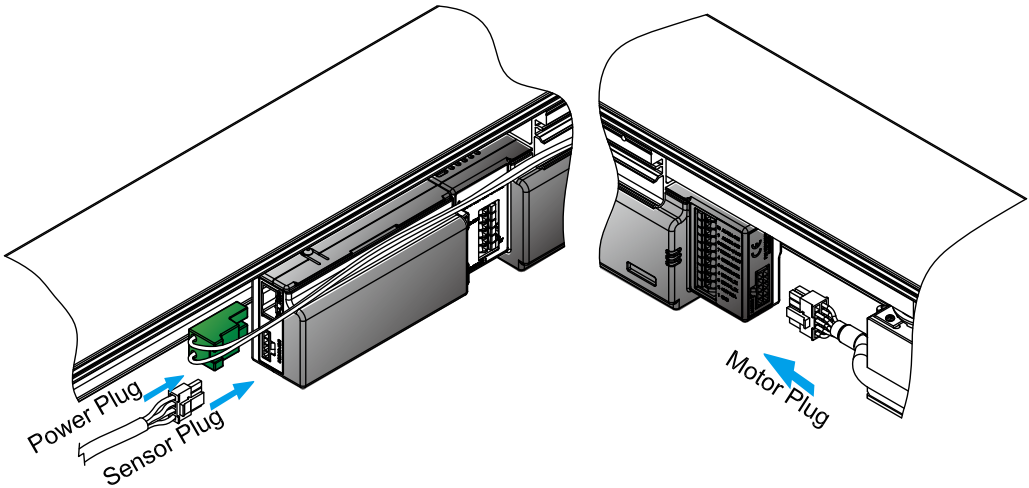
17-2



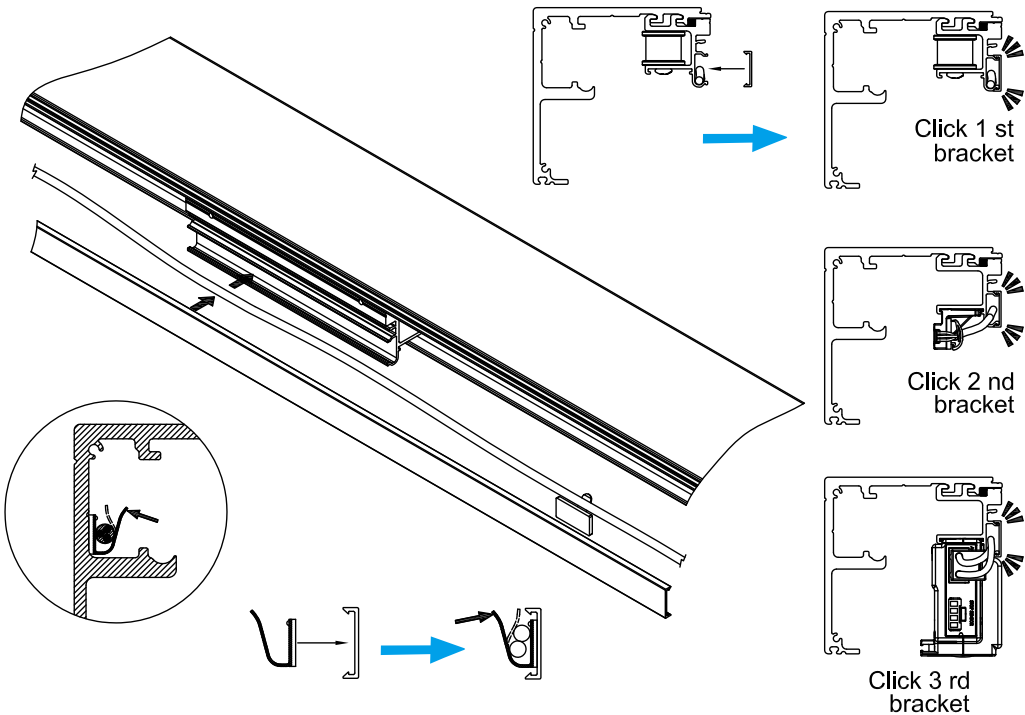
17-3



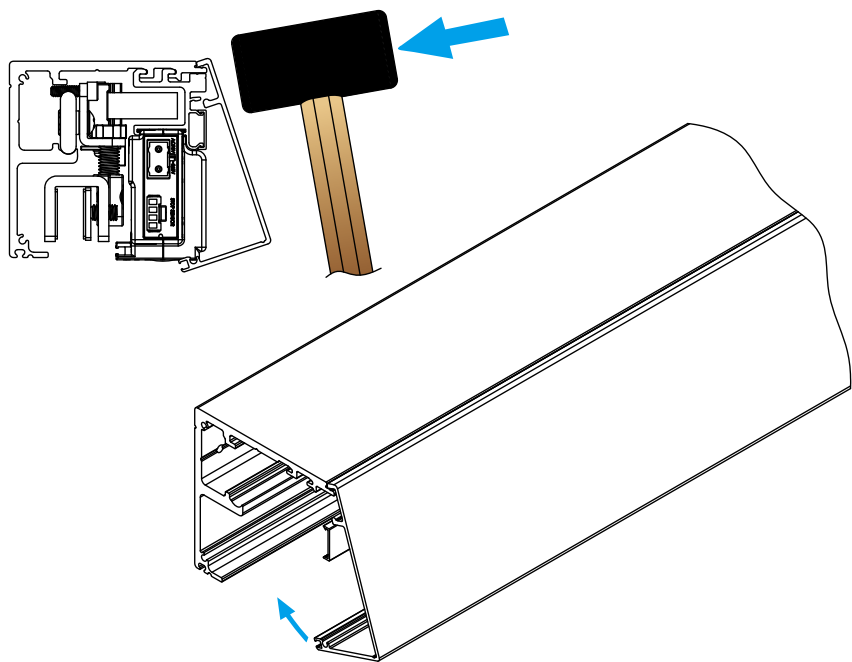
# 18. Plugs Connection



# 19. Cable Arrangement

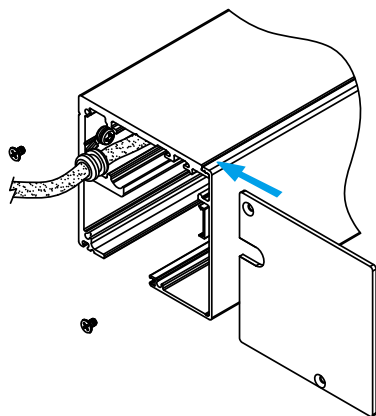


# 20. Front Cover

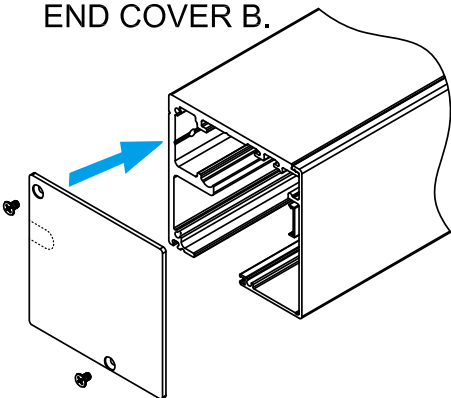


# 21. End Cover

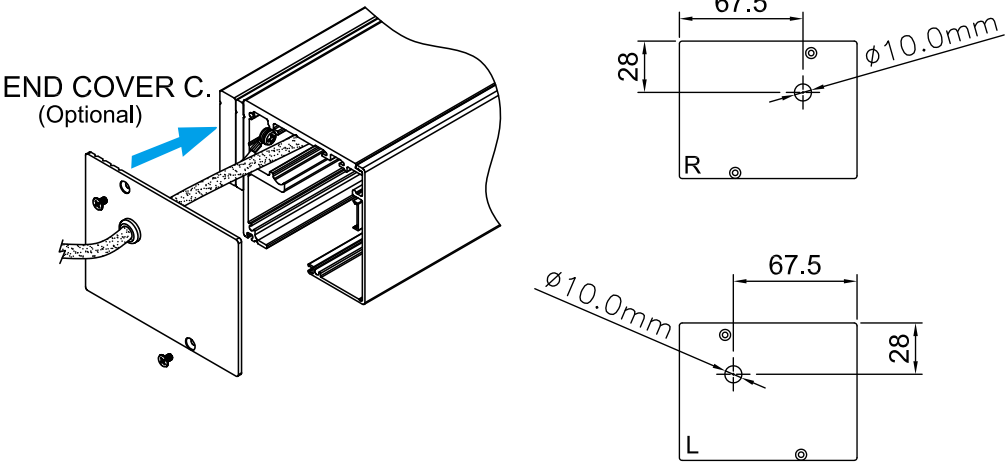
END COVER A.



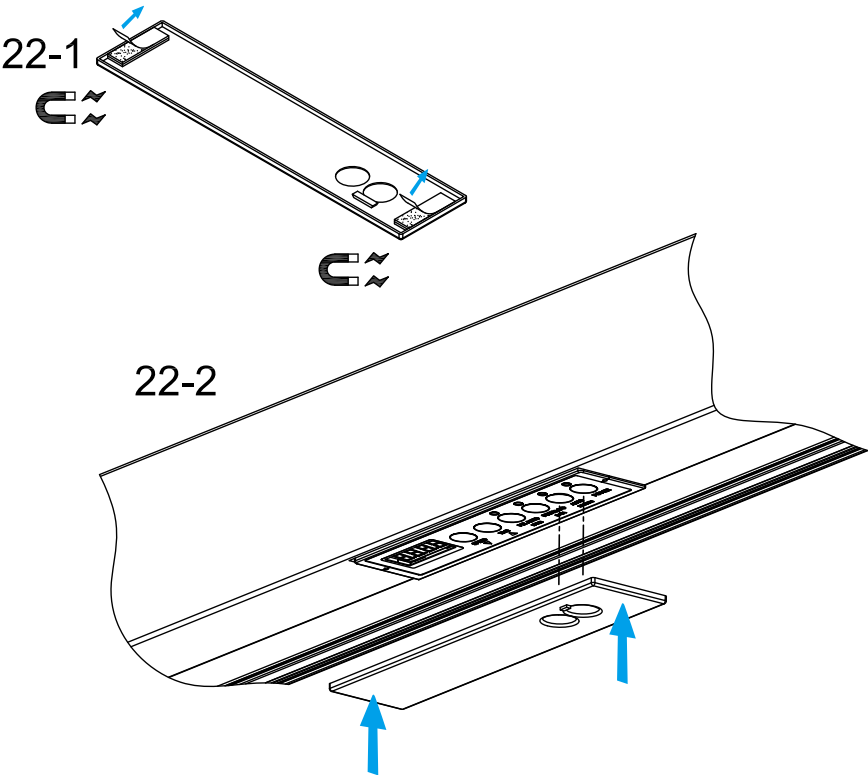
END COVER B.



# 21. End Cover



# 22. Control Unit Cover



## 5. Operation Instruction

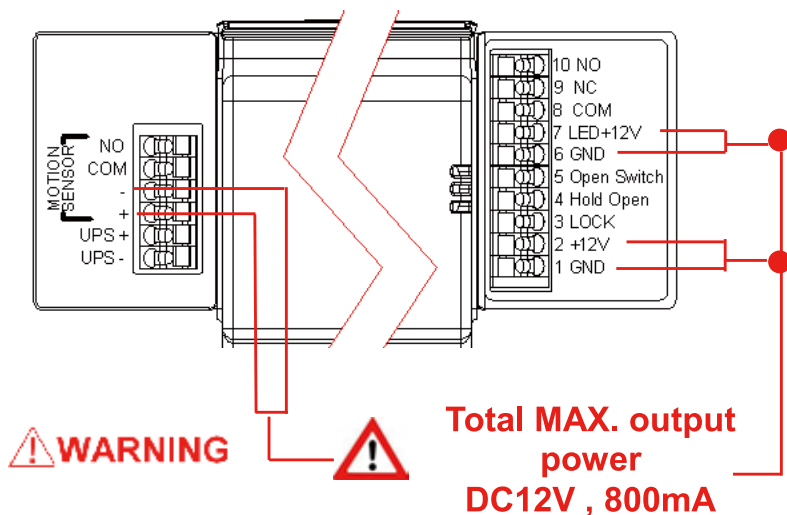
### 5.1 Setting up your Control unit :

Plug in input power connector ① 、 ground wire ③ 、 motor ④ and stop sensor connector ② .



\*The drive system is for building-in, only display panel side is considered to be accessible to users. For others the compliance shall be check and install by qualify electrician.

### 5.2 Max. output power for optional accessories:





## 5.3 Control unit operating modes :

### 5.3.1 Functional description

#### **Power on :**

- a. After power on the door must perform automatic working distant setting as 5.4 control unit setting first. After the setting, the door will return to closing position.
- b. Auto, PUSH & GO will also be set as default setting. Both LED lights are on.

#### **Auto on =Automatic Mode :**

- a. When you trigger open switch or motion sensor, the door will open and close automatically after pre-set time delay.

#### **Auto off =Semi-automatic Mode :**

- a. The door will hold at open position when you trigger the switch, it will close only when you trigger the switch again.
- b. Motion sensor will become disabled in semi-automatic mode.

#### **Push & Go on :**

When Auto LED light is off, you can push the door approximately 10mm to open the door, the door will open automatically and then hold the door at open position until someone pulling the door to close. When Auto LED light is on, you can push the door approximately 10mm to open the door, the door will open automatically and close after pre-set time delay.

#### **Push & Go off :**

The door is in manual mode when PUSH & GO LED light is off.

#### **Power failure :**

In case of power failure, the door will be changed to manual mode after power comes back, the door will return to closing position and restore all settings before power failure.

**Safety protection :**

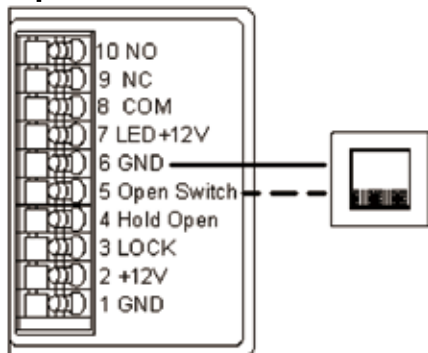
- a. If the door hit the obstacle during door opening, the door will stop immediately until you push /pull the door.
- b. If the door hit the obstacle during door closing, the door will open immediately the first time. If the door hit the obstacle during the door closing the second time, the door will stop immediately until you push /pull the door.
- c. When the door stop, the safety protecting mechanism will be activated, the motion sensor will become disable

**Exceed power limits :**

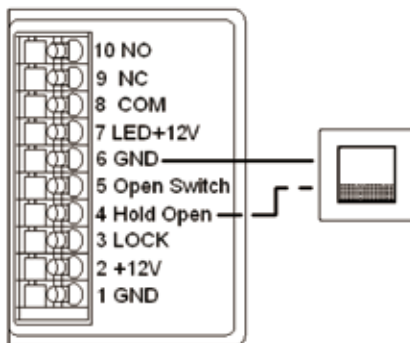
The control unit can supply total Max. output 800mA, if total optional accessories output exceed 800mA, the control unit will shut down immediately. Only after the control unit detects total output is not exceed the limitation, the control unit will work normally again.

## 5.4 Wiring for optional accessories

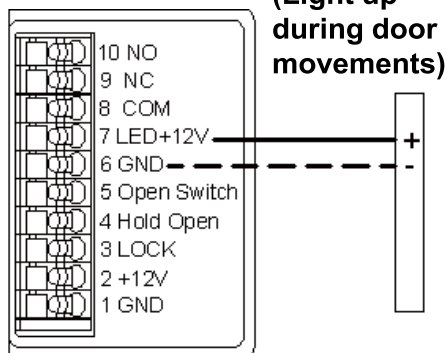
### 1. Switch / Button Open & Close



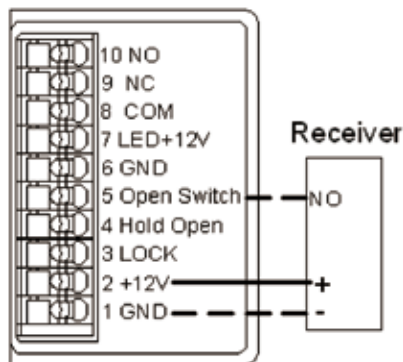
### Push to Open & Push to Close



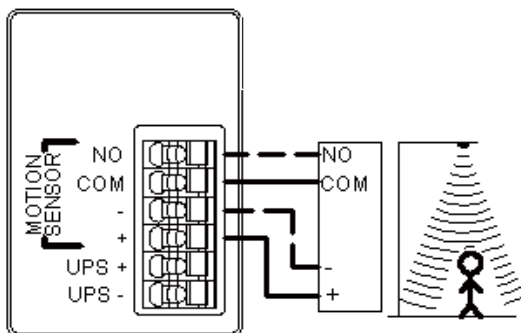
### 2. LED light :



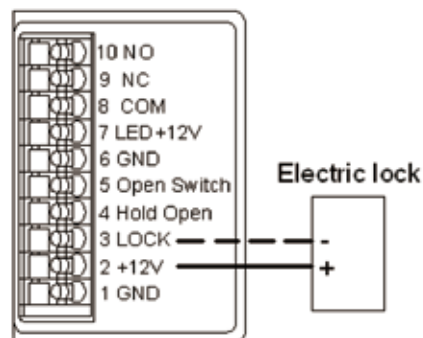
### 3. 433.92MHz Remote control :



### 4. Motion sensor



### 5. Electric Lock :



(Activate only in automatic mode)



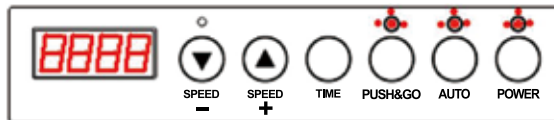
**Total MAX. output power DC12V , 800mA**

## 5.5 Control unit setting & adjustment

### Standard Default setting after power on:

- a. Open to Right
- b. Auto, PUSH & GO on
- c. Time delay 2.5 sec.

After power on, the LED display shows 8888, and three LED lights (Power, Auto, Push & Go button) will blink repeatedly, the door will move at slow speed, and return to closed position. Please wait until the LED display shows SP to proceed the following.



If no need to change door opening direction, please proceed **STEP 2** directly.

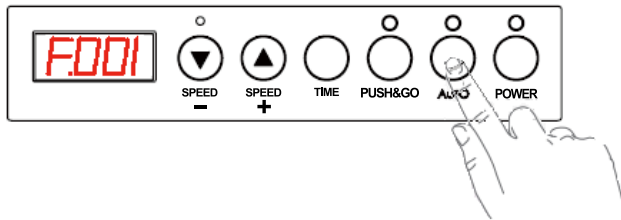
### **STEP 1. Opening Direction Setting**

**Default : Open to Right**

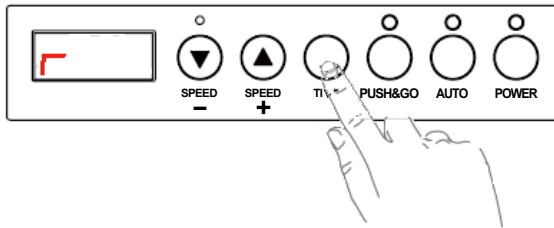
Press power on

A. Change from “open to right”(left) to “open to left”(right)

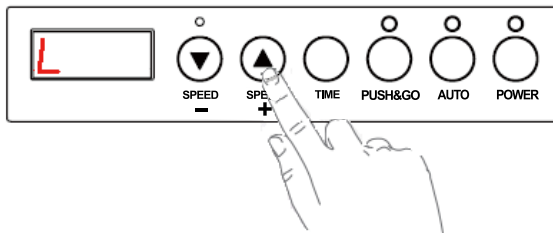
- a. Press “AUTO” three sec. until LED display shows “F.001” to enter opening direction setting.



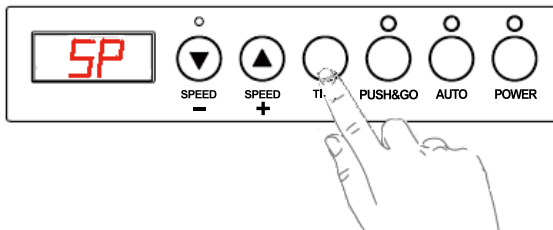
- b. Press “Time” it will show the default setting “r” (open to right) or current direction “L” (open to left)



- c. Press “Speed + or Speed-” to change “r” to “L” (open to left) or “L” to “r” (open to right)



- d. Press “Time” again as enter to confirm the change.



How to memorize the change:

- e.
1. Press “Power” Off.
  2. Pull the door to the center of the track rail.
  3. Power on.
  4. The door will stop at closing position according to your setting.

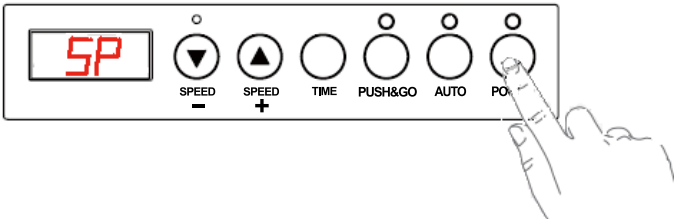
**STEP 2. Automatic Working Distance Setting**

**Only under below circumstances you need to run the Automatic Working Distance Setting:**

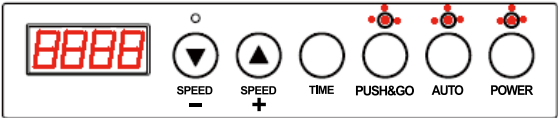
- A. The first time you use the system.
- B. When you move the sensors of both ends.

**The working distance setting procedures as below: (Making sure the power is off)**

- a. Pull the door to the center of the track rail.
- b. Press “Power” 3 sec. to begin the automatic working distance setting.



- c. All three LED as below will blink repeatedly. The door will cruise automatically and proceed the distance setting.



- d. During the setting, the door will move at slow speed and stop at the closing position after cycle is completed.

**STEP 3. Working Speed Setting**

**Including :**

**Ranges**

A. Opening or Closing Speed	01~15
B. Braking Speed	01~05
C.Braking Distance %	30%~70%

Slow ↔ Fast  
Slow ↔ Fast  
Shorter ↔ Longer

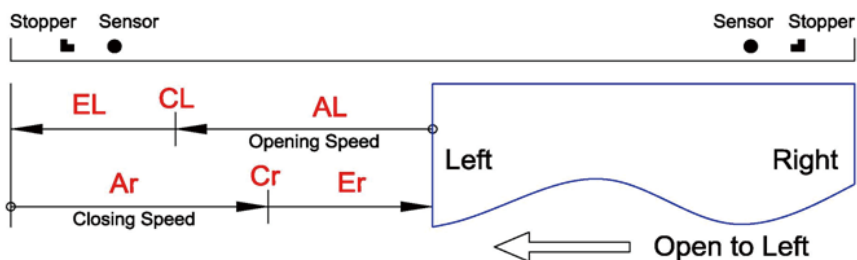
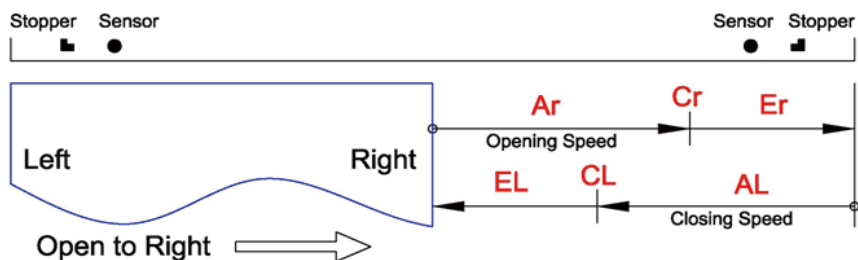
## How to adjust speeds

**A. If the door weight under 50Kgs, the standard default please refer below:**

Door weight	Opening Speed	Closing Speed	Braking Speed	Braking Distance %	Note.
~40kgs	11	6	02	50	Default
41kgs-50 kgs	11	6	02	50	Default

**B. If you door weight is over 50Kgs, please refer below “suggested” figures.**

Door weight	Opening Speed	Closing Speed	Braking Speed	Braking Distance %	Note.
51kgs-60kgs	12	8	01	50	suggested
61kgs-70kgs	12	8	01	50	suggested
71kgs-80kgs	14	10	01	50	suggested



**A : Opening or Closing Speed**

**E : Braking Speed**

**C : Braking Distance %**

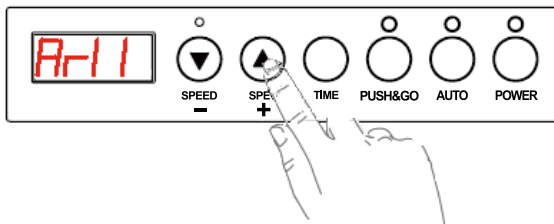
The speed can be different based on door size and door weight.

How to changes:

Press “Speed” 3 sec. to enter speed adjustment setting.

#### A. Opening or Closing Speed

- a. When the LED display shows Ar XX of current speed. If you want to change, please press “Speed+” to increase speed or “Speed-” to decrease speed.



- b. Or press “TIME” till LED display shows AL XX of current speed. Then press “Speed+” to increase speed or “Speed-” to decrease speed.

#### B. Braking Speed

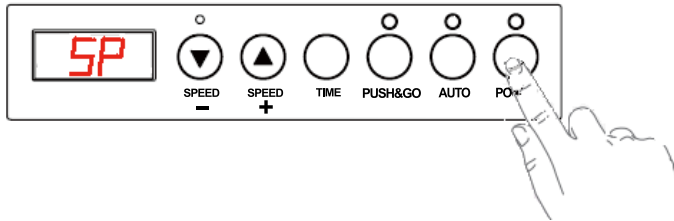
- a. Press “TIME” till LED display shows Er XX of current braking speed, then press “Speed+” to increase speed or “Speed-” to decrease speed.
- b. Or press “TIME” till LED display shows EL XX of current braking speed, you can press “Speed+” to increase speed or “Speed-” to decrease speed.

#### C. Braking Distance %

- a. press “TIME” till LED display shows Cr XX of current braking distance%, then press “Speed-” to increase speed or “Speed+” to decrease speed.
- b. Or press “TIME” till LED display shows CL XX of current braking distance %, then press “Speed- ” to increase speed or “Speed+” to decrease speed.



- \* Please press "Power" to confirm your setting when you complete all speed setting. All your settings will be automatically memorized and shown in the next door movement. The power will still be on.



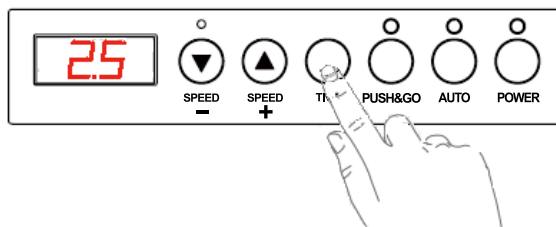
Note. If you follow our suggested speed in above chart but find the door :

1. Still hit the left hand (or right hand) stopper and bounce back, please increase the braking distance % by "Speed+" or decrease the braking speed by "speed-".
2. Stop before reaching the stopper, please increase the braking speed by "Speed+" or decrease the braking distance %.

#### **STEP 4. Closing Time Delay Setting**

**Default 2.5 sec.**

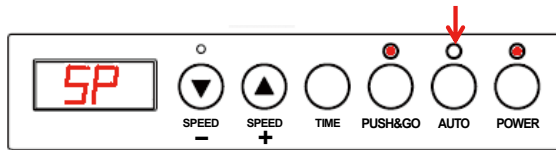
Press "Time" to change LED display time delay from 0/1/2.5/5/10/15/20/30 sec. to set the time delay in automatic mode. This setting will automatically memorized and shown in the next door movement.



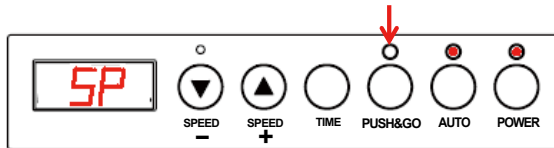
#### **STEP 5. Change between Operating Modes**

**Default : AUTO, PUSH&GO function**

Press "AUTO" to deactivate the auto mode, the LED light of the AUTO button will be off. This setting will be automatically memorized and shown in the next door movement.

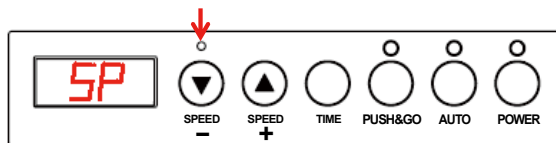


Press “PUSH&GO” to deactivate the Push & go mode, the LED light of the push & go button will be off. This setting will be automatically memorized and shown in the next door movement.



## **STEP 6. Reset to Default- when your settings are incorrect and unable to reset**

- A. Take a tool like paperclip, press it inside the “reset” hole and hear a beep sound.



- B. Press “Power” to turn off.
- C. Pull the door to the center of the track rail.
- D. Press “Power” 3 sec. to begin the automatic working distance setting.

## 6. Trouble Shooting

Only for qualified and experienced technician

Problem	Potential cause	Remedy
The Power on button does not light up.	<ol style="list-style-type: none"> <li>1. There is no power supply</li> <li>2. Loose plug</li> <li>3. Damaged power cord or plug.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check the power supply.</li> <li>2. Re-connect the plug.</li> <li>3. Replace a new power cord.</li> </ol>
The control unit is light up but the door does not respond.	<ol style="list-style-type: none"> <li>1. Motor cable is not well connected to the control unit.</li> <li>2. Damaged motor.</li> <li>3. Damaged control unit.</li> <li>4. Sensor cable is not well connected to the control unit.</li> </ol>	<ol style="list-style-type: none"> <li>1. Re-connect the motor cable to control unit.</li> <li>2. Replace the motor.</li> <li>3. Replace the control unit.</li> <li>4. Re-connect the sensor cable to control unit.</li> </ol>
The door does not fully open/close but stop before the opening/closing position.	<ol style="list-style-type: none"> <li>1. Some friction on the track that slow down the door movement.</li> <li>2. Speed is slow.</li> </ol>	<ol style="list-style-type: none"> <li>1. Wipe the track to clean the dust on the track.</li> <li>2. Increase the speed.</li> </ol>
The door does not stop at either of closing/ opening position according to your setting, but repeatedly open/ close.	<ol style="list-style-type: none"> <li>1. Inconsistent data input in control unit.</li> <li>2. Exceed door speed and the door detects an obstacle, the push/go is activated.</li> </ol>	<ol style="list-style-type: none"> <li>1. Run the "Automatic Working Distance Setting."</li> <li>2. Adjust the speed slower.</li> </ol>
Loud noise with consistency during door movement	<ol style="list-style-type: none"> <li>1. Obstacle on the rollers.</li> <li>2. Damaged of the rollers.</li> <li>3. Damaged on the track.</li> <li>4. Check if any interference during the movement. (eg .if glass door touches the motor or if the carriage touches the belt / control unit.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check 4 rollers on the carriages.</li> <li>2. Replace the complete carriages.</li> <li>3. Replace new track if can not be repaired.</li> <li>4. Remove the interference.</li> </ol>
Loud noise but inconsistency during door movement.	Obstacle on the track.	Wipe and check the track.
The door move beyond the set position.	The stopper is loose.	Tighten both stoppers.
<ol style="list-style-type: none"> <li>1. The door movement slow down in an abnormal speed.</li> <li>2. Incorrect action of motion sensor.</li> </ol>	Exceed maximum output power.	Recheck individual accessory connect to control unit, the max. mA does not exceed 800mA.
Door slipping	<ol style="list-style-type: none"> <li>1. The adjustment screw on the carriage is not tighten.</li> <li>2. The clamp screw is not tighten.</li> </ol>	<ol style="list-style-type: none"> <li>1. Tighten the adjustment screw according to the installation manual.</li> <li>2. Tighten the screw with 2.0 N.m. force.</li> </ol>
Door does not respond to motion sensor.	<ol style="list-style-type: none"> <li>1. The motion sensor is disabled in semi-automatic mode.</li> <li>2. The motion sensor is disabled when the door hit an obstacle the second time and turn on the protecting defense.</li> <li>3. Motion sensor cable is loose.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check your setting.</li> <li>2. Remove obstacle and reactivate the door.</li> <li>3. Re-plug the cable.</li> </ol>

## 7. Maintenance

- 7.1 Fully understand and read the check-list from below before performing Formosa i Series.
- 7.2 Check the system and all safety equipment at least once a year by qualified inspector, and the inspector should take notes of the data for record.
- 7.3 Check list ( first time installation and regular maintenance )

- ☐ The door has been checked with smooth running and has been readjusted according to the manual instruction.
- ☐ The track is clean.
- ☐ The rollers on both carriages are in good condition without any missing parts or dust attached.
- ☐ The anti-falling screws on both carriages are installed and fixed properly, both screws are in good condition.
- ☐ The belt is in good condition.
- ☐ The motor is running smoothly without loud noises.
- ☐ Make sure the carriage stop in front of the stopper, if the carriage is away from the stopper or hit the stoppers, please adjust the speed in the control unit. (How to adjust, please refer to manual instruction)
- ☐ The cables are fixed well and position in the location according to the manual instruction. If the cables are loss, it might interfere with the smooth running of MOTION i Series.
- ☐ The inspection and maintenance record need to be kept well.

## 8. Warranty

One year product warranty.

Warranty is from the date of manufacture, against defect in material and workmanship. This warranty will be accepted through proper documentation of purchase, and will only be available for replacement from the original purchaser.

This warranty is valid only for use the components from manufacture.

This warranty will not apply to products that:

- a. Are being used in situation not designed or intended.
- b. Have been altered or repaired without ROCA's written consent.
- c. Have been subjects to abuse, negligence, misuse and or accidental damage to the product.
- d. Have been incorrectly installed, or improperly maintained.

ROCA will warrant the products deemed defective by replacing with new units, but will not be responsible for the following costs:

- a. Labor costs associated with removal and replacement of product.
- b. Freight costs associated with the warranty.
- c. Normal and recommended maintenance of product.
- d. Economic losses associated with the replacement of product.

No other warranty, expressed or implied, will supersede this warranty.

## 9. Contact information

### **ROCA Industry AB**

Radiovägen 19

SE-135 48 Tyresö, Sweden

[info@rocaindustry.com](mailto:info@rocaindustry.com) | [rocaindustry.com](http://rocaindustry.com)

Client: DOOR & WINDOW HARDWARE CO.  
12F-1, No. 666, Sec. 2, Wu Chuan West Road,  
Taichung City 40869, Taiwan,  
R.O.C.



SGS

SGS United Kingdom Limited  
Units 12a & 12b  
Bowburn South Industrial Estate  
Bowburn  
Durham  
DH6 5AD

## CERTIFICATE OF COMPLIANCE

Certificate No MDC 1532

Date of Issue	25 <sup>th</sup> January 2016
SGS Reference	CST218515/1
Details of Product	Automatic Sliding Door System
Type	FORMOSA I Series
Series and numbers	-
Trademark	<b>DNW</b>
Date of Receipt	08 <sup>th</sup> January 2016
Assessment Performed	Assessed for compliance with the requirements of Annex VII of the Machinery Directive 2006/42/EC (Technical File).
Standards referenced	EN 16005:2012, EN ISO 12100:2010, EN ISO 13849-1:2008/AC:2009
Conclusion	In the opinion of SGS the submitted technical file referenced as CST218515/1 satisfies the requirements of the Machinery Directive 2006/42/EC.
Issue No.	1
	Valid until 24 <sup>th</sup> January 2021

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives.



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Authorised Signatory:  
D. Paoli  
Test Engineer

All enquiries relating to this certificate must be directed to the Test Engineer

MD 038

Iss. 01 06/07/2015

Page 1 of 1

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Any other holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations

SGSPAPER

15081772



## EC DECLARATION OF CONFORMITY

We **DOOR & WINDOWS HARDWARE CO.**  
12F-1, No. 666, Sec. 2, Wu Chuan West Road, Taichung City 40869, Taiwan,  
R.O.C.

declare that the product name: Automatic Sliding Door System  
Model name : FORMOSA i Series

pass the essential safety requirements of the relevant European Directive:

- Machinery Directive 2006/42/EC
- Low Voltage Directive 2014/35/EU
- Electromagnetic Compatibility Directive 2014/30/EU

The person who compile technical file established within the EU:

Name: SGS UK  
Address: SGS United Kingdom Rossmore Business Park, Ellesmere Port, Cheshire  
CH65 3EN

Mounting and connecting instructions defined in catalogues and technical construction files must be respected by the user.

They are based on the following standards :

- EN ISO 12100:2010 Safety of Machinery - General principles for design / Risk Assessment and Risk reduction.
- IEC 60335-1:2010 (Fifth Edition) incl. Corr. 1:2010 and Corr. 2:2011 Household and similar electrical appliances – Safety - General requirements
- EN 60335-2-103:2006 (Second Edition)+A1:2010 Household and similar electrical appliances. Safety. Particular requirements for drives for gates, doors and windows
- EN 16005:2012 Power operated pedestrian doorsets — Safety in use — Requirements and test methods
- EN ISO 13849-1:2008/AC:2009 Safety of machinery – Safety-related parts of control systems Part 1: General principles for design
- EN 61000-6-1:2007 Electromagnetic compatibility (EMC) - Part 6-1: Generic standards. Immunity for residential, commercial and light-industrial environments
- EN 61000-6-2:2005 Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments
- EN 61000-6-3:2007+A1:2011 Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
- EN 61000-6-4:2007+A1:2011 Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments.

Name : Ailin Chang

Responsibility : Sales Rep.

Authorized Signature : 

Date : July 24th, 2016

Place : Taiwan





**Certificate  
of conformity with the following  
European Directive**

Registered No.:  
**NE1105170030**

**Electromagnetic Compatibility Directive 2014/30/EU**

Reference of applicant	Date of application	File reference	Test report No.	Date of issue	Expiry date
-	12.10.2015	TWR1510002	TWR1510002 002	16.06.2017	15.06.2022

This is to certify that the following product complies to all the provisions of the above mentioned European Directive and the following standards:

**Product:** AUTOMATIC SLIDING DOOR SYSTEM

**Type designation:** FORMOSA i Series (only 1 model)

**Serial No.:** Engineering Sample

**Applicant:** Door & Window Hardware Co.  
12F-1, No. 666, Sec. 2 Wu Chuan West Rd., Taichung 40869, Taiwan,  
R.O.C.

**Standard(s):** EN 61000-6-1: 2007, EN 61000-6-3:2007/A1: 2011,  
EN 61000-6-2: 2005, EN 61000-6-4: 2007+A1: 2011

This Certificate of conformity is based on the evaluation of sample(s) of the above mentioned product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD Group. This is to certify that the tested sample is in compliance with the essential requirements referred to in Annex I of Council Directive 2014/30/EU and demonstrated by means of procedure described in Annex II of Council Directive 2014/30/EU. This certificate can be used by holder in connection with the EC declaration of conformity indicating conformity according to Electromagnetic Compatibility Directive.



Certification Department

Email: [info.pc@tuv-nord.com](mailto:info.pc@tuv-nord.com)  
[www.tuv-nord.com](http://www.tuv-nord.com)  
TÜV NORD GROUP IN TAIWAN

The certificate can be verified by Online certification search in TÜV Asia Pacific Ltd. Taiwan Branch website: [www.tuvnord.com.tw](http://www.tuvnord.com.tw).  
The certification system is based on ISO 17065.



The CE marking may be affixed on the product if all relevant and effective Directives are complied with.  
The TÜV NORD Group is active in more than 70 countries in Europe, Asia, America and Africa, which including TÜV NORD CERT GmbH (NB 0044), TÜV NORD SYSTEMS GmbH & CO. KG (NB 0045), CETECOM GmbH (NB 0680), TÜV NORD Sweden AB (NB 2529), TÜV NORD Luxembourg s.à.r.l. (NB 2541), etc. Headquarter of the TÜV NORD Group in Am Tunnel 1, 30519 Hannover, Germany



# Certificate of conformity with the following European Directives

Registered No.:  
**NL1105170023**

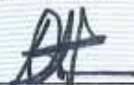
## Low-Voltage Directive 2014/35/EU

Reference of applicant	Date of application	File reference	Test report No.	Date of issue	Expiry date
-	22.05.2017	TWR1510003	TWR1510003 001/002	26.05.2017	10.12.2020

This is to certify that the following product complies to all the provisions of the above mentioned European Directive and the following standards:

- Product:** AUTOMATIC SLIDING DOOR SYSTEM
- Type designation:** FORMOSA I Series (only 1 model)
- Serial No.:** Prototype samples without serial numbers
- Applicant:** Door & Window Hardware Co.  
12F-1, No. 666, Sec. 2 Wu Chuan West Rd., Taichung 40869, Taiwan,  
R.O.C.
- Standard(s):** IEC 60335-2-103:2006 (Second Edition) + A1 2010 in conjunction with IEC 60335-1:2010 (Fifth Edition) incl. Corr. 1:2010 and Corr. 2:2011  
and/or  
EN 60335-2-103: 2003 in conjunction with EN 60335 1:2012 + AC:2014 + A11:2014,  
EN 62233: 2008

This Certificate of conformity is based on the evaluation of sample(s) of the above mentioned product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD Group. This is to certify that the tested sample is in compliance with the essential requirements referred to Low-Voltage Directive 2014/35/EU. This certificate can be used by holder in connection with the EC declaration of conformity indicating conformity according to Low Voltage Directive.

  
\_\_\_\_\_  
Certification Department

Email: [info.pc@tuv-nord.com](mailto:info.pc@tuv-nord.com)  
[www.tuv-nord.com](http://www.tuv-nord.com)  
TUV NORD GROUP IN TAIWAN

The certificate can be verified by Online certification search in TÜV Asia Pacific Ltd. Taiwan Branch website: [www.tuvnord.com.tw](http://www.tuvnord.com.tw).  
The certification system is based on ISO 17065.

**CE** The CE marking may be affixed on the product if all relevant and effective Directives are complied with. **CE**  
The TÜV NORD Group is active in more than 70 countries in Europe, Asia, America and Africa, which including TÜV NORD CERT GmbH (NB 0044), TÜV NORD SYSTEMS GmbH & Co. KG (NB 0045), CETECOM GmbH (NB 0890), TÜV NORD Sweden AB (NB 2529), TÜV NORD Luxembourg s.à.r.l. (NB 2541), etc. Headquarter of the TÜV NORD Group in Am TÜV 1, 30519 Hannover, Germany.



