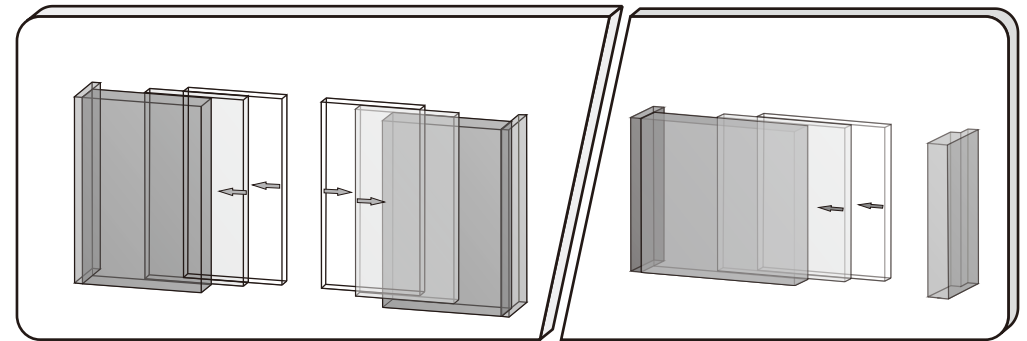


# Automatic Door Systems



## L-W2



四扇走雙向門  
Telescopic 4-winged Sliding doors

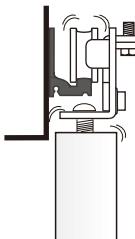
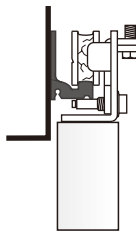
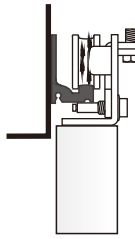
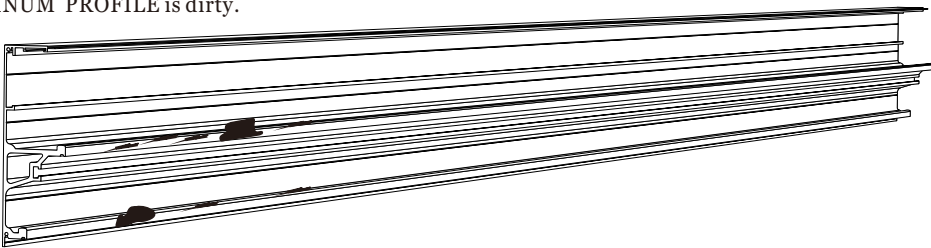
雙扇走單向門  
Telescopic 2-winged Sliding doors

## 使用說明

## OPERATION INSTRUCTION



狀況三 門扇運行有雜音 The Door-Leaf sends out abnormal noise in operating.

<p><b>原因一</b> 吊輪螺絲鬆動</p> <p>Cause 1 The SCREW of the HANGING TWIN-WHEEL is loose.</p>  <p><b>處理：</b> 重新將吊輪螺絲旋緊</p> <p>How to solve: Refasten the SCREW of HANGING TWIN-WHEEL.</p>	<p><b>原因二</b> 吊輪損壞</p> <p>Cause 2 HANGING TWIN-WHEEL is broken.</p>  <p><b>處理：</b> 更換吊輪</p> <p>How to solve: Replace a new one HANGING TWIN-WHEEL.</p>	<p><b>原因三</b> 吊輪髒污</p> <p>Cause 3 HANGING TWIN-WHEEL is dirty.</p>  <p><b>處理：</b> 清潔吊輪</p> <p>How to solve: Clean the HANGING TWIN-WHEEL.</p>
<p><b>原因四</b> 軌道髒污</p> <p>Cause 4 ALUMINUM PROFILE is dirty.</p>  <p><b>處理：</b> 清潔軌道</p> <p>How to solve: Clean the ALUMINUM PROFILE.</p>		

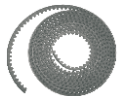
1. 套件規格	COMPONENTS SPECIFICATION	P1
2. 產品規格	TECHNICAL SPECIFICATION	P2
3. 機械箱剖面圖	SECTIONAL DRAWING	P3
4. 機械箱高度圖	INSTALLATION DRAWING	P4
5. 按裝流程圖	INSTALL PROCEDURE	P5
6. 尾輪座按裝	INSTALL THE BELT ROLLER	P6
7. 吊滑輪位置圖	THE POSITION OF THE HANGING TWIN-WHEEL	P7
8. 皮帶按裝(雙走單)	INSTALL THE RACK BELT OF 2-WINGED	P8
9. 皮帶按裝(四走雙)	INSTALL THE RACK BELT OF 4-WINGED	P9
10. 門扇調整	ADJUST THE DOOR-LEAF	P10
11. 電氣連接	CONNECTION	P11
12. 信號連接	OUTPUT CONNECT	P12
13. 故障檢查流程	BROKEN CHECKING	P14
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微電腦控制器  
MICRO-CONTROLLER



Dc直流蝸桿馬達  
DC WORM GEAR MOTOR



齒型皮帶  
RACK BELT



門扇固定螺絲 (8個 雙扇走單)  
(16個 四扇走雙)  
DOOR SCREWS (8 pcs 2-winged)  
(16 pcs 4-winged)



主被動板固定螺絲(3個雙扇走單)  
(7個四扇走雙)  
SCREWS of ACTIVE (3 pcs 2-winged)  
/PASSIVE BRACE (7 pcs 4-winged)



小阻輪 (8個雙扇走單)  
(16個四扇走雙)  
BLOCK (8 pcs 2-winged)  
SCREWS(16 pcs 4-winged)



吊滑輪固定擋片(2個雙扇走單)  
(4個四扇走雙)  
STOPER (2 pcs 2-winged)  
(4 pcs 4-winged)



墊片(8個雙扇走單)  
(16個四扇走雙)  
WASHER (8 pcs 2-winged)  
(16 pcs 4-winged)



吊板墊 (2支雙扇走單)  
(門扇4CM以下用) (4支四扇走雙)  
HANGING BRACE MEDIUM(2pcs 2-winged)  
(FOR DOOR LEAF UNDER 4CM)(4 pcs 4-winged)



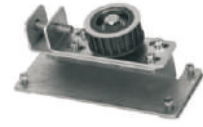
主動板  
ACTIVE BRACE



被動板  
PASSIVE BRACE



皮帶夾 2 個  
BELT FIXER-2 PCS



尾輪座一組  
BELT ROLLER



內層門扇吊滑輪組(右側)  
Inside door-leaf HANGING TWIN-WHEEL(right side)



外層門扇吊滑輪組 (1組 雙扇走單)  
(2組 四扇走雙)  
Outside door-leaf (1set 2-winged)  
HANGING TWIN-WHEEL (2set 4-winged)



內層門扇吊滑輪組(左側)  
(雙扇走單則無此配件)  
Inside door-leaf HANGING TWIN-WHEEL(left side)  
Only for 4-winged



紅外線感應器(選配)  
SENSORS (OPTIONAL DEVICE)



束帶 5 個  
CABLE TIE-5 PCS

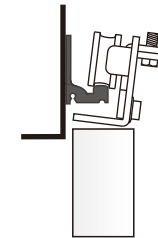


門扇吊板 (4個 雙扇走單)  
(8個 四扇走雙)  
Hanging Brace (4pcs 2-winged)  
(8pcs 4-winged)

狀況二 門扇運行不順暢 Door-Leaf isn't smooth in operating.

原因一 吊輪按裝未垂直

Cause 1  
HANGING TWIN-WHEEL is not at vertical position.



處理：  
重新調整吊輪

How to solve:  
Readjust the HANGING TWIN-WHEEL.

原因二 門扇與地軌有磨擦或地軌髒污

Cause 2  
1. Door touches Ground Rail.  
2. Ground Rail is dirty.

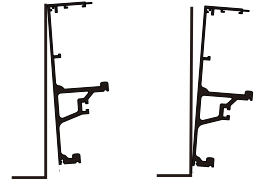


處理：  
1. 調整門扇高度  
2. 清理地軌的髒污

How to solve:  
1. Readjust the distance between Door and Ground Rail.  
2. Clean up the Ground Rail.

原因三 軌道未垂直

Cause 3  
ALUMINUM PROFILE is not vertical.

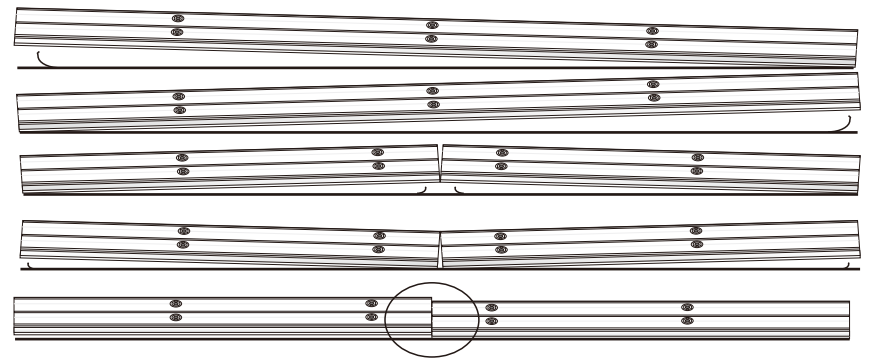


處理：  
重新調整軌道的垂直位置

How to solve:  
Readjust the vertical position of the ALUMINUM PROFILE.

原因四 軌道未水平

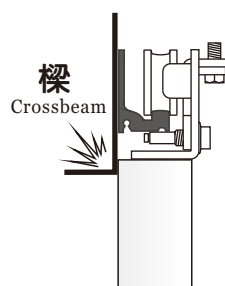
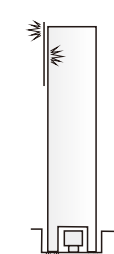
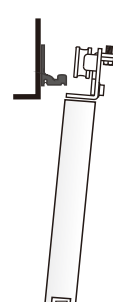

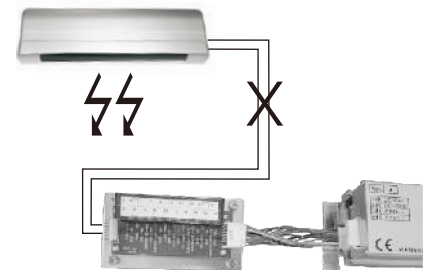
Cause 4  
ALUMINUM PROFILE is not at vertical position.



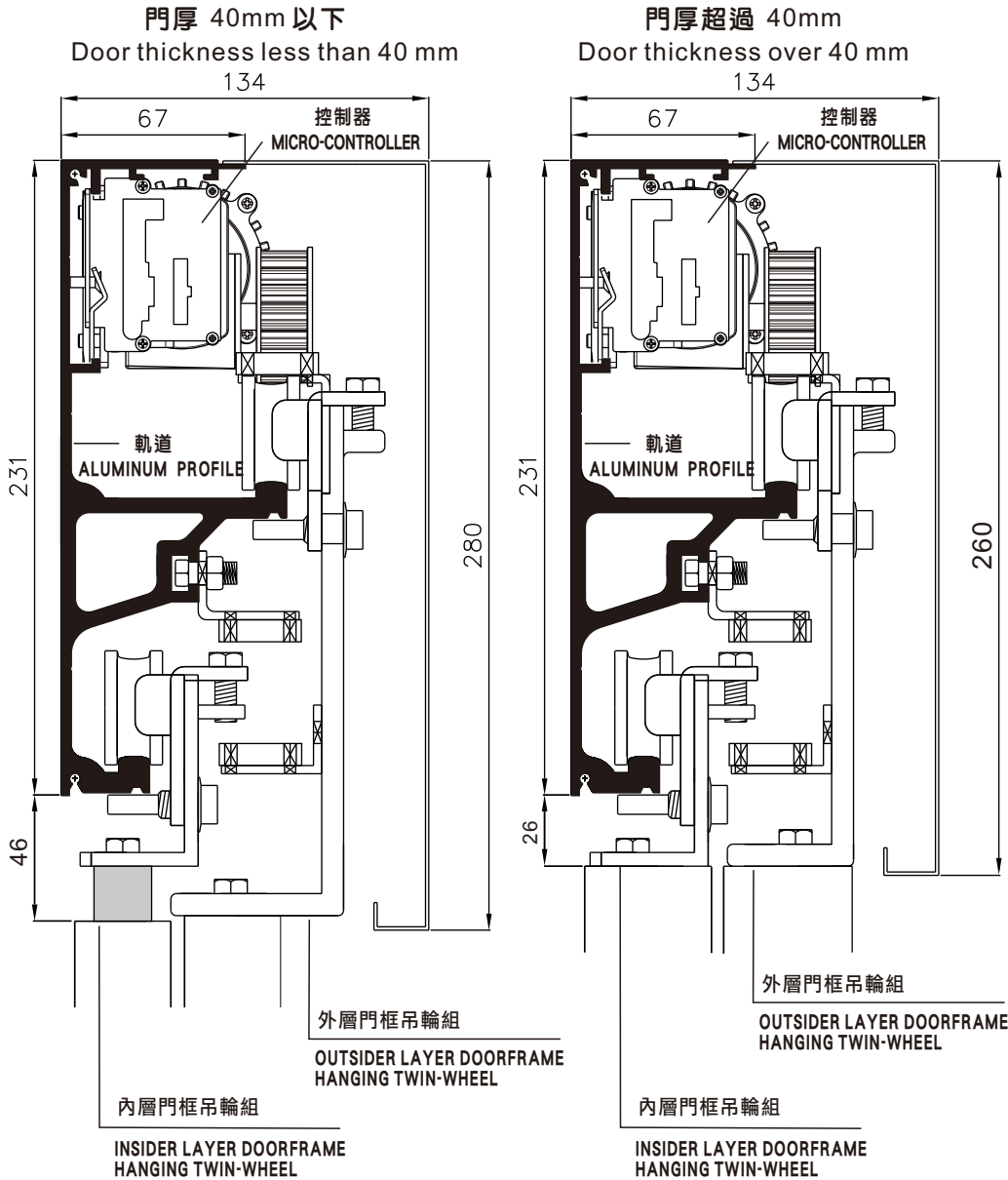
處理：  
重新調整軌道的水平位置

How to solve:  
Readjust the level position of the ALUMINUM PROFILE.

狀況一 門扇無法開啟或關閉 Door can't be opened or closed.

<p><b>原因一</b> 門扇上方與橫樑接觸</p> <p>Cause 1 Above the Door-Leaf touched with the crossbeam.</p>  <p><b>處理：</b> 調整門扇與橫樑間隙</p> <p>How to solve: Adjustment the interval between the Door-Leaf height and Crossbeam.</p>	<p><b>原因二</b> 門扇與地軌接觸</p> <p>Cause 2 The Door-Leaf touched with the Ground Guide Rail.</p>  <p><b>處理：</b> 調整門扇高度</p> <p>How to solve: Adjus the Door-Leaf height.</p>	<p><b>原因三</b> 門扇脫軌</p> <p>Cause 3 Door-Leaf derails the ALUMINUM PROFILE.</p>  <p><b>處理：</b> 重新將門扇置入軌道</p> <p>How to solve: Put the Door-Leaf into the ALUMINUM PROFILE again.</p>
<p><b>原因四</b> 門扇未垂直</p> <p>Cause 4 Door-leaf does not vertical.</p>  <p><b>處理：</b> 調整地軌位置</p> <p>How to solve: Adjust the Ground Guide Rail/Wheel position.</p>	<p><b>原因五</b> 感應器故障或未接線至集線器</p> <p>Cause 5 SENSOR is broken or disconnects to the COMBINED TERMINAL BLOCK.</p>  <p><b>處理：</b></p> <ol style="list-style-type: none"> <li>1. 若感應器故障則更換新的感應器</li> <li>2. 檢查感應器是否連接至集線器</li> </ol> <p>How to solve: 1. If SENSOR is broken please change a new one. 2. Check SENSOR whether it connects to the COMBINED TERMINAL BLOCK.</p>	

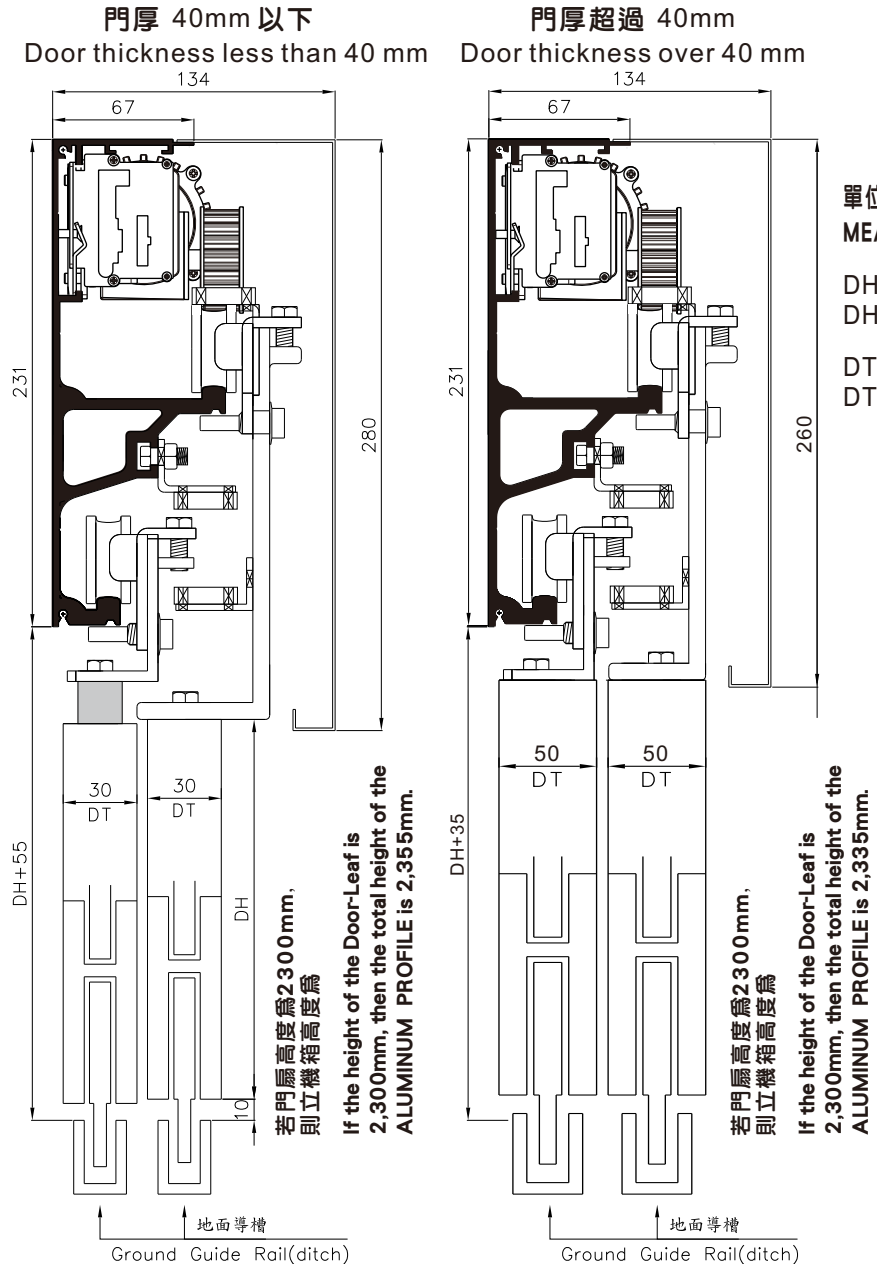
型號 TYPE	L-W2
種類 MODEL	雙扇走單向式 Telescopic 2-winged
門扇重量 DOOR WEIGHT	80kg X2扇(door)
門扇寬度 DOOR WIDTH	DW=500mm~3000mm
按裝方式 INSTALL WAY	表面按裝 Surface install
馬達 MOTOR	DC24V 75W 直流無刷馬達 DC24V 75W BRUSHLESS DC MOTOR
控制器 CONTROL	微電腦化處理機控制器 STANDARD MICRO-CONTROLLER
消耗電量 POWER CONSUMPTION	75W
電源電壓 VOLTAGE	AC80V~250V皆可(either AC80V~250V)
環境溫度 ENVIRONMENTAL TEMPERATURE	-20°C~+50°C
噪音量 VOLUME	最大 60 分貝 60decibel(max.)
開啟速度 STARTING SPEED	650mm/秒(second)
開啟時間 STARTING TIMES	可調 0 秒至 64 秒 0~64 sec. (regulable)
傳動要件 TRANSMISSION IMPORTANT CONDITION	齒形皮帶 S8M RACK BELT
開門幅度 OPENING DOOR RANGE	全開/半開 可調整距離 FULL/HALF-OPEN (regulable)
<b>PFC</b> 功率因素 POWER EFFICIENCY	0.95(AC100V全載時/in AC100V Full load)
手推開啟力量 TRACTION FORCE	3 kg



單位：公釐  
MEASURE : mm

PROBLEMS	REASONABLE	CHECK	HOW TO SOLVE
DOOR CAN'T BE MOVED.	1.No power.	Broken circuit. The Power Switch is not opened.	Check the broken circuit position. Open the POWER SWITCH.
	2.The door is locked.	Door is locked and no movement action.	Open the DOOR LOCK.
	3.The sensor is broken.	Signal light is WORKING.	Check the MICRO-CONTROLLER.
Signal light is OUT OF WORKING.		Check the CIRCUIT OF SENSOR or change a new one SENSOR.	
SPEED	1.Speed is too slow.	Check the Speed at KNOB of MICRO-CONTROLLER.	Adjust the Speed of Open/Closed Door.
	2.Door runs into the obstructor, then cause the Door moving slow.	Installation problem or dirty.	Reinstall or clean the ALUMINUM PROFILE.
	3.Door is difficult to move.	Turn off the power.Use hand to move the Door, besides, check the Ground Guide Rail whether it is dirty.	Clean the Ground Guide Rail.
		Check the HANGING TWIN-WHEEL whether it is broken.	Change a new one.
	Check the Door Bolt in the door bottom whether it is loosen.	Fix the Door Bolt.	
	Check whether the Ground Wheel is broken.	Change a new Ground wheel.	
DOOR CAN'T FULL OPEN.	In the Half-Open way.	Check the Knob/Switch.	Turn on to Full Open.
DOOR CAN'T CLOSE.	1.In the Full-Open way.	The SENSOR keeps working.	Check wiring or change a new SENSOR.
	2.The Door opens suddenly while it is moving to close .	The SENSOR probably is installed with something wrong.	Adjust the SENSOR or change a new one.

問題	可能原因	檢查方向	排除操作
無開門動作	1.無電源	電路斷路	檢查電路斷點
		電源開關未開	開啟電源開關
	2.門被鎖住	門鎖鎖住, 控制器無動作	開啟門鎖
3.感應器故障	感應信號燈有動作	檢查控制器	
	感應信號燈無動作	檢查感應器線路或更換感應器	
速度太慢	1.速度設置太慢	控制器速度調整	調整開門或關門速度
	2.門扇遇到阻礙物,變成慢速	軌道施工不良或髒污	重新施工或清理軌道
	3.門扇滑動阻力過大	關閉電源,用手使門扇滑動並檢查地面導軌是否有髒污	清理地面導軌
		吊滑輪磨損	更換吊滑輪
		檢查門扇底部的鎖門是否鬆動	固定好鎖門
		檢查地面導輪是否已損壞或鬆動	更換或重新固定地面導輪
門扇開不到底	處於半開模式	檢查全開/半開開關	切換至全開
門扇不能關閉	1.門扇處於全開狀況無法關閉	感應器信號燈持續亮著	感應器線路檢查或更換感應器
	2.門扇關到一半隨即開啟	感應器誤動作	調整或更換感應器





**1** 準備 機箱高度/水平確認  
Prepare Should correct the height and the leveling of the ALUMINUM PROFILE



**2** 切割/安裝機械箱  
Cut and install the ALUMINUM PROFILE



**3** 各感應器安裝  
Install the SENSORS



**4** 馬達部件  
MOTOR



**5** 控制器部件  
MICRO-CONTROLLER

**6** 尾輪座部件  
Install the BELT ROLLER



**7** 懸掛/調整門扇  
Hang and adjust the Door-Leaf



**8** 皮帶安裝調整  
Install and adjust the BELT



**9** 電氣連接  
Power connect



**10** 測試及調整  
Test and adjust

1.關閉電源  
Turn off power.  
2.用手滑動門  
Use your hand to move the Door-Leaf.

人工初步檢判  
Preliminary analysis

運轉不平穩  
Running isn't Smooth

運轉平穩  
Running smooth

檢查線路  
Check the circuit

1.開啟電源  
Turn on power.  
2.取下感應器信號線  
Take out the sensor signal line.  
3.短路感應器信號線接點  
Test the circuit of SENSOR.

運行檢視  
Running check

運轉平穩  
Running smooth

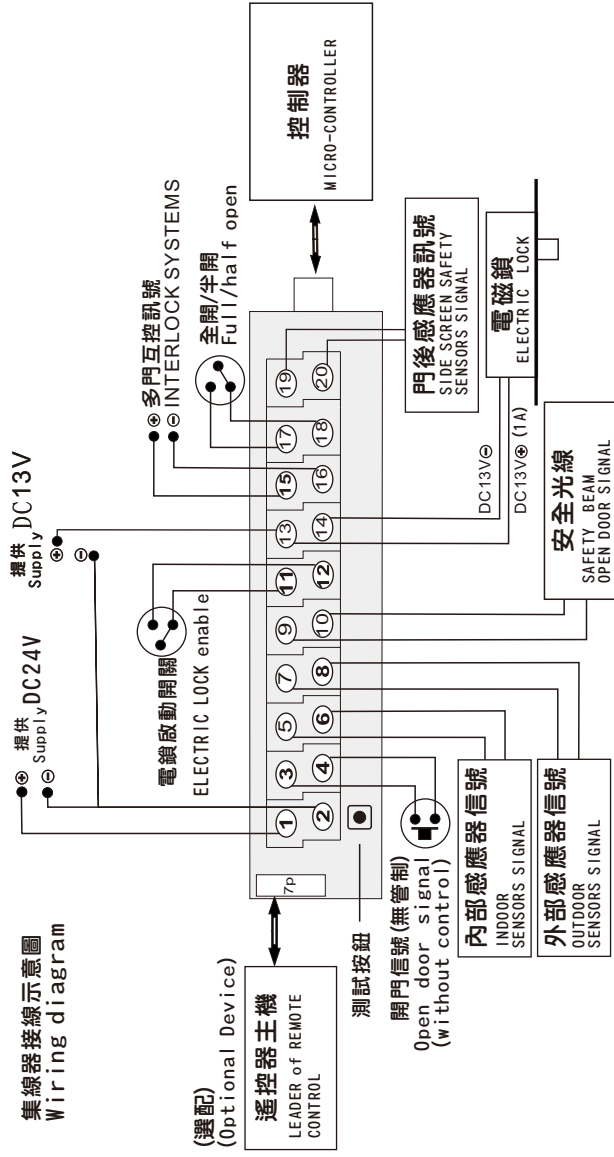
運轉不平穩  
Running isn't Smooth

馬達裝置問題  
The PROBLEM of the MOTOR  
1.接線器接觸不良  
Wiring connects fault.  
2.控制器部件故障  
Spare parts of the MICRO-CONTROLLER broken.

1. 門和門側壁或橫樑間未校準  
Check the distance between Door and Wall / Crossbeam.  
2. 吊輪磨損  
HANGING TWIN-WHEEL is broken.  
3. 地面導軌髒污  
The GROUND RAIL is dirty.  
4. 門扇扭曲變形  
The Door-Leaf becomes deformed.  
5. 小阻輪間隙未校準  
Check BLOCK SCREW whether need to adjust.  
6. 地面導輪損壞  
The GROUND GUIDE WHEEL is damaged.  
7. 門鎖或門門故障  
Check the LOCK whether it is broken.  
8. 機箱蓋未校準  
Check the ALUMINUM COVER whether it isn't fixed.  
9. 機箱內有污垢  
There is dirt inside the ALUMINUM PROFILE.

感應器問題  
The PROBLEM of the SENSOR  
1.感應器故障或工作不正常  
Check the SENSOR whether it is broken.  
2.感應器電線斷路或短路  
Check the SENSOR whether the wire is broken or short circuit.





(A) 11號與12號端子短路時，電鎖功能隨之啟動且當門扇關閉後，13號與14號端子輸出DC13V供電磁鎖使用。若是11號與12號端子沒有短路，則13號與14號端子不會輸出DC13V。

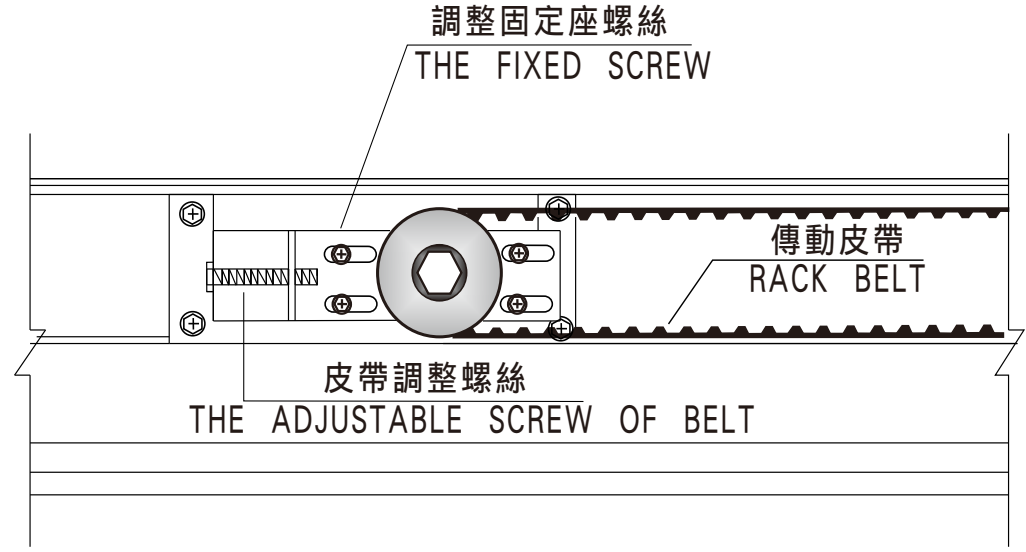
The FUNCTION of the ELECTRIC LOCK will work when ⑪ and ⑫ are short circuit, then ⑬ and ⑭ will output DC13V for ELECTRIC LOCK after the door closes. ⑬ and ⑭ will not output DC13V if ⑪ and ⑫ are not short circuit.

(B) 9號與10號端子做為安全光線信號控制；當門扇開啟或運行當中，9號與10號端子保持在接受信號狀態中，當門扇關閉後則9號與10號端子變成不接受信號，安全光線隨即關閉，保持門鎖。

The SIGNAL of the SAFETY BEAM is controlled by ⑨ and ⑩. When door is opening and running, ⑨ and ⑩ keep to accept the signal, then the SAFETY BEAM will be working. ⑨ and ⑩ will not work when the door is closed, then the SAFETY BEAM will lose efficacy when the door is closed.

(C) 門後感應器是為避免門在開啟時後方有物體或行人進入而發生碰撞其接點訊號接於⑮，⑯二點，當訊號觸發時移動中的門扇會即刻變慢運行，到門完全開啟再以正常速度關閉。

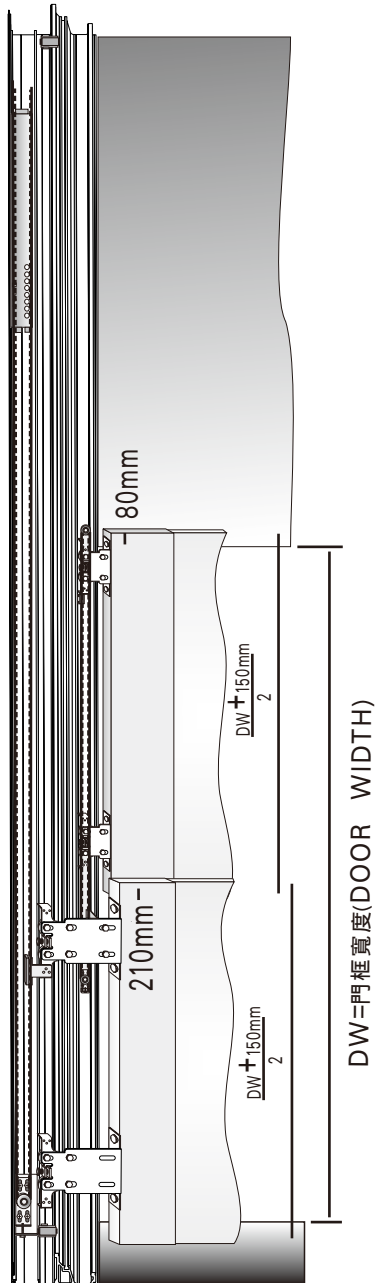
The signal of Side Screen Safety Sensor is controlled by ⑮ and ⑯. Side Screen Safety Sensors are placed at the rear end of the door to prevent collisions during the opening movement of the moving leaves. When the signal activates, the moving leaves will become slowly, till the door opens fully, then close normally.



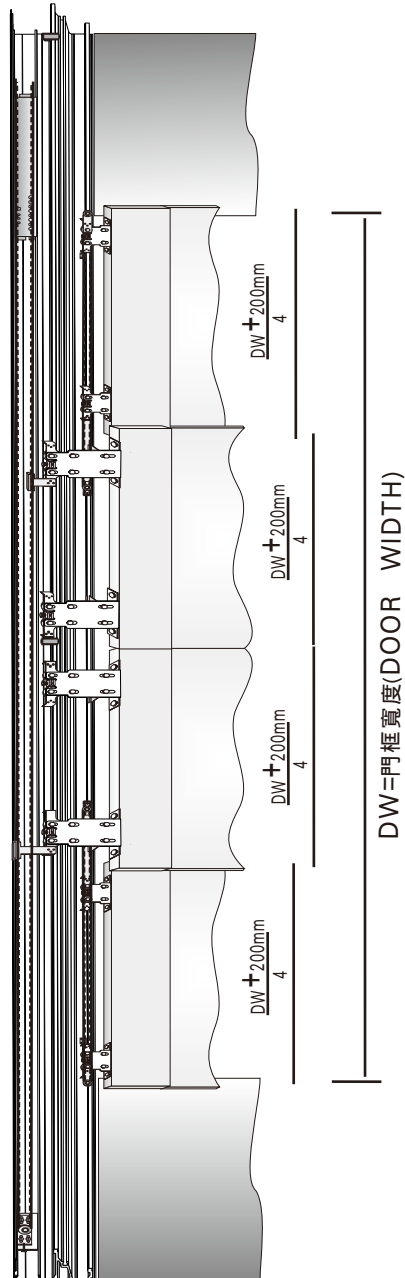
皮帶張力可由皮帶調整螺絲做調整，調整完畢後，須擰緊調整固定座螺絲。

TENSION of BELT can be adjusted by the ADJUSTABLE SCREW of BELT, after that, must tighten the FIXED SCREW of BELT.

雙扇走單向  
TELESCOPIC 2-WINGED  
SLIDING DOORS

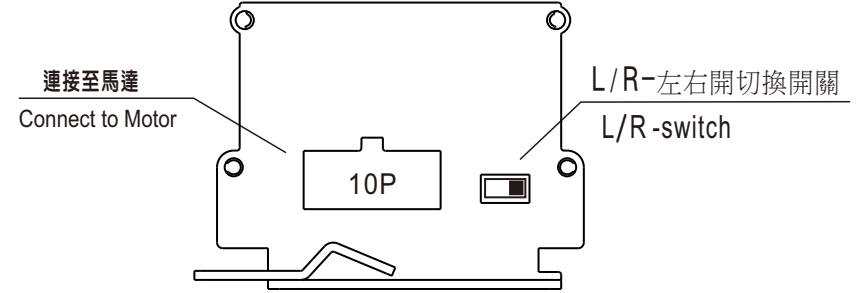


四扇走雙向  
TELESCOPIC 4-WINGED  
SLIDING DOORS

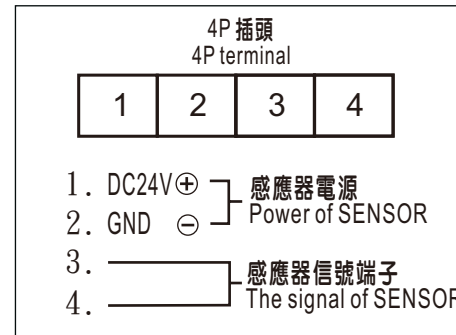
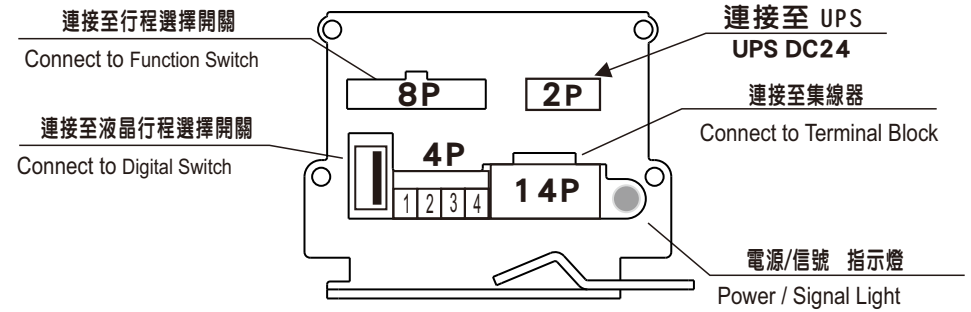


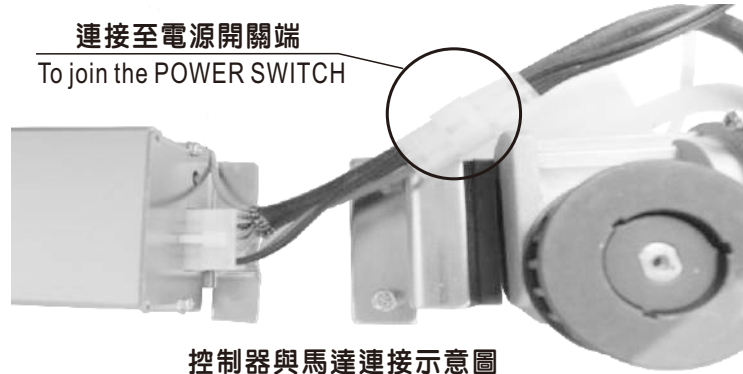
微電腦控制器 MICRO-CONTROLLER

輸入端引線 Input connect



輸出端引線 Output connect

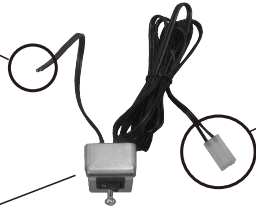




控制器與馬達連接示意圖  
The ILLUSTRATED of CONTROLLER and MOTOR.

供給電源輸入端  
AC80V~250V皆可

Power supply (input)  
Either AC80V~250V



電源開關  
POWER SWITCH

連接至馬達端  
To join the MOTOR

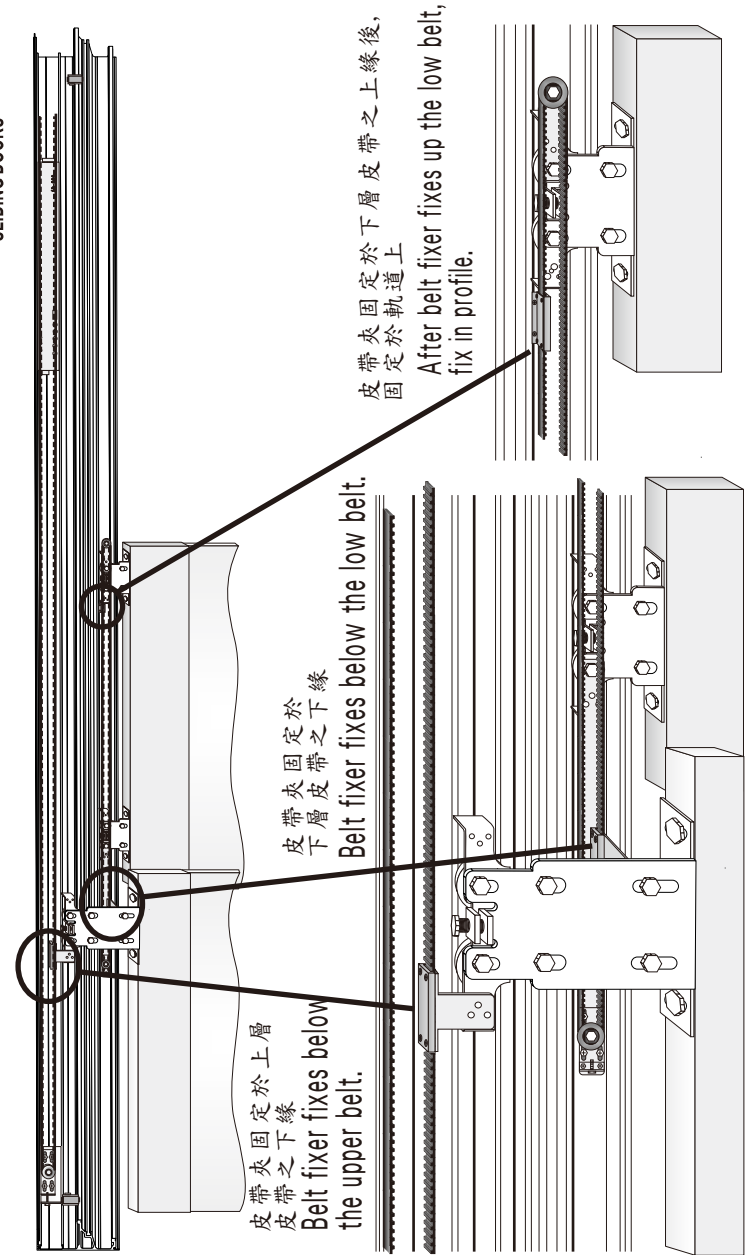


**警告**  
Warning

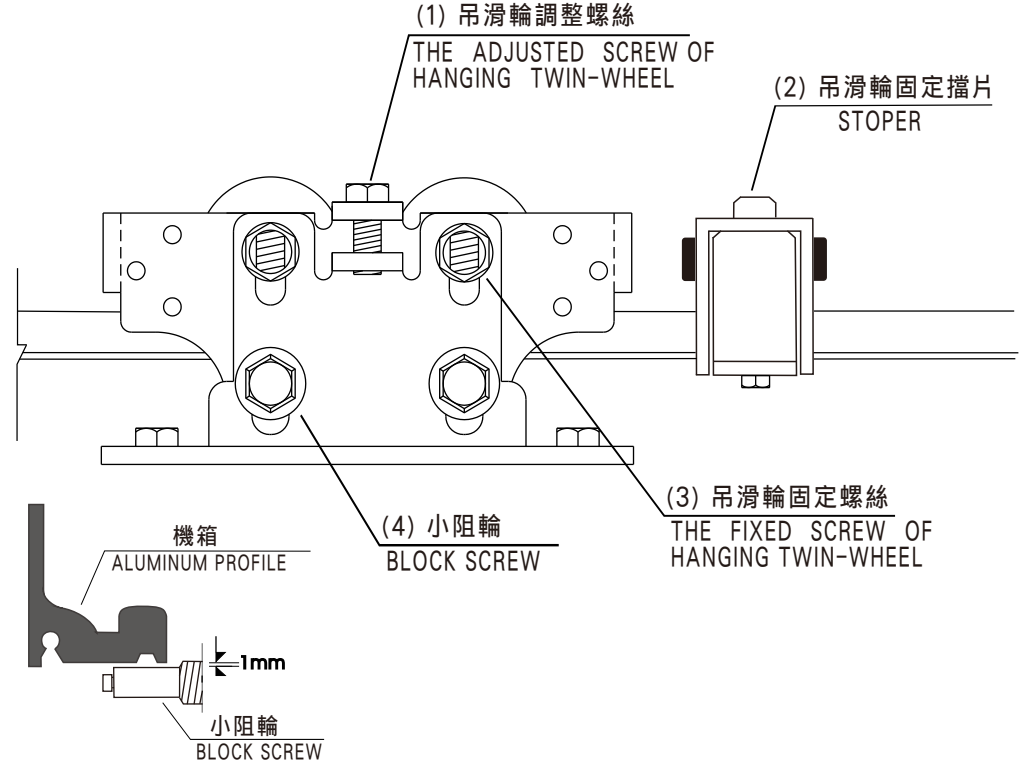
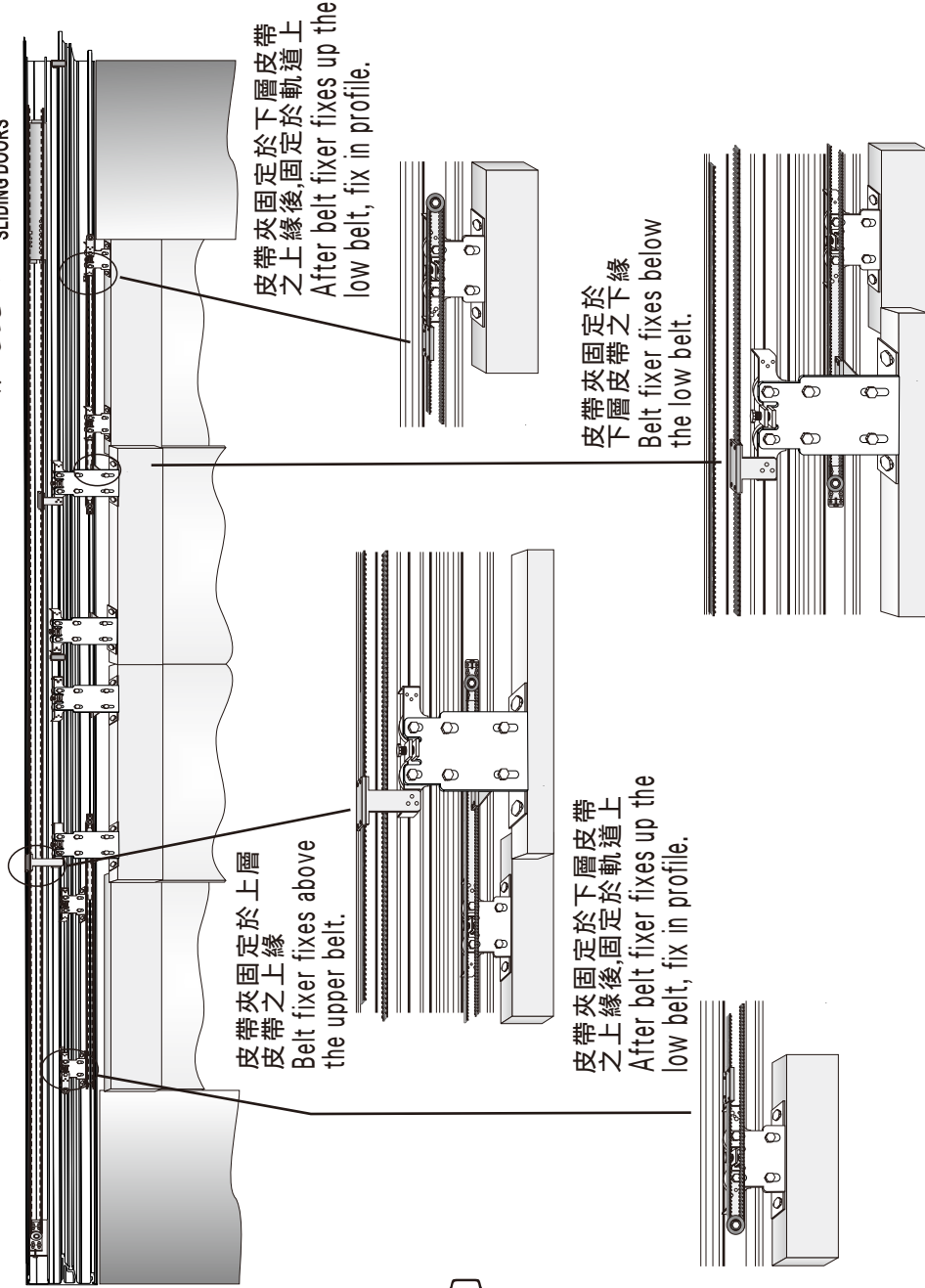
請確認感應器所標示之電壓是否與供給電源相同，若與供給電源電壓不同時，則感應器需另行加裝變壓裝置否則感應器極易燒毀，連接完畢後，請再確認一次。

Please confirm WHETHER the SENSOR VOLTAGE is the same as the power supply. If different between them, need to add the TRANSFORMER, otherwise the SENSOR would be burned.

雙扇走單向  
TELESCOPIC 2-WINGED  
SLIDING DOORS



TELESCOPIC 4-WINGED SLIDING DOORS  
四扇走雙向



- A** 當門扇的高度與間隙需調整時, 首先鬆開吊滑輪固定螺絲, 旋轉吊滑輪調整螺絲。  
When Door-Leaf height and interval need to adjust, loose (3) at first, then to adjust (1).
- B** 調整完畢後, 必須擰緊吊滑輪固定螺絲。  
Need to fasten (3) after adjust **A** .
- C** 門扇開關位置確認後, 按置吊滑輪固定擋片, 確保開門位置不變。  
Install above-mentioned (2) after make sure the DOOR OPEN POSITION.