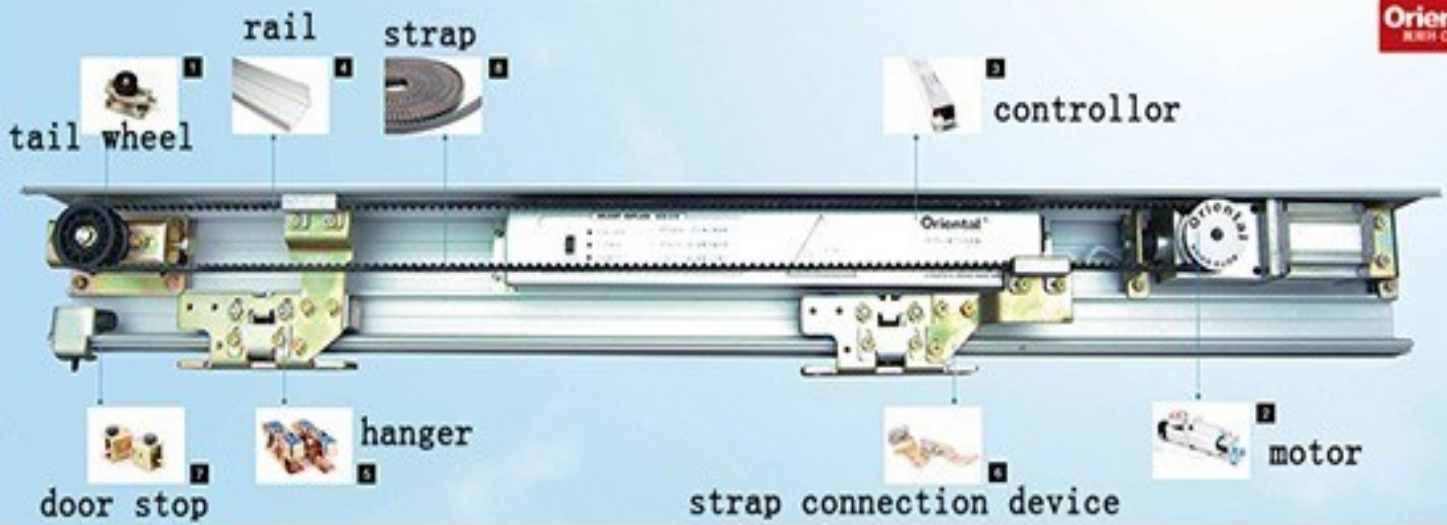


Oriental

automatic door

COMPANY PROFILE

Oriental
WITH CARE



Oriental

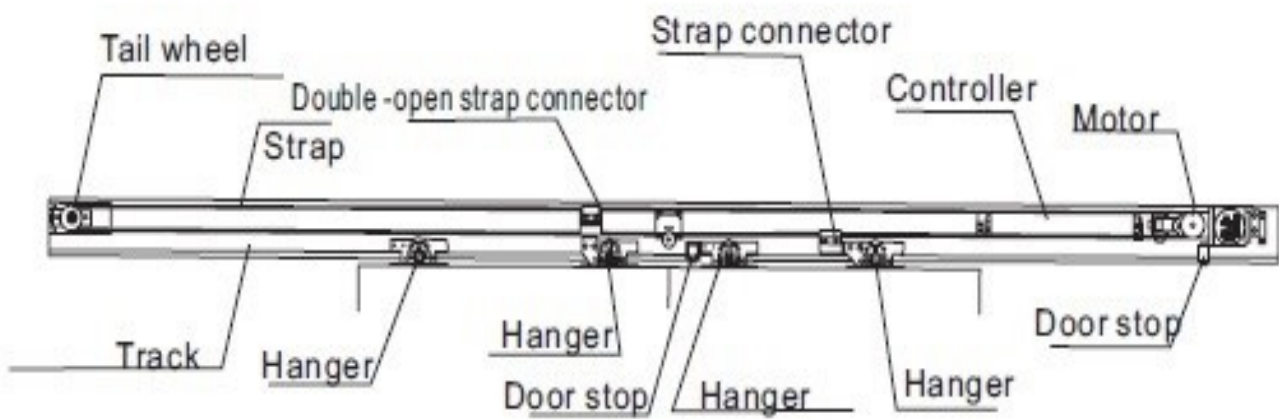
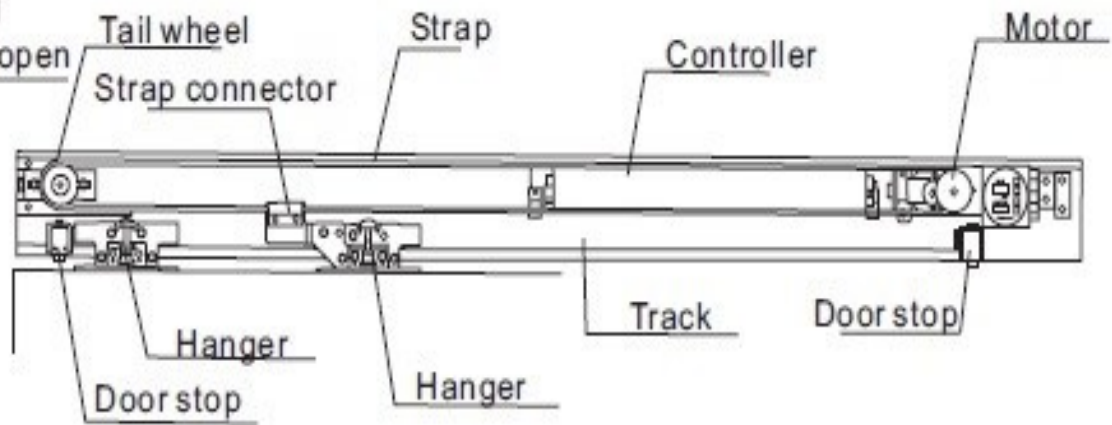
Japanese technology



1. The title of each component

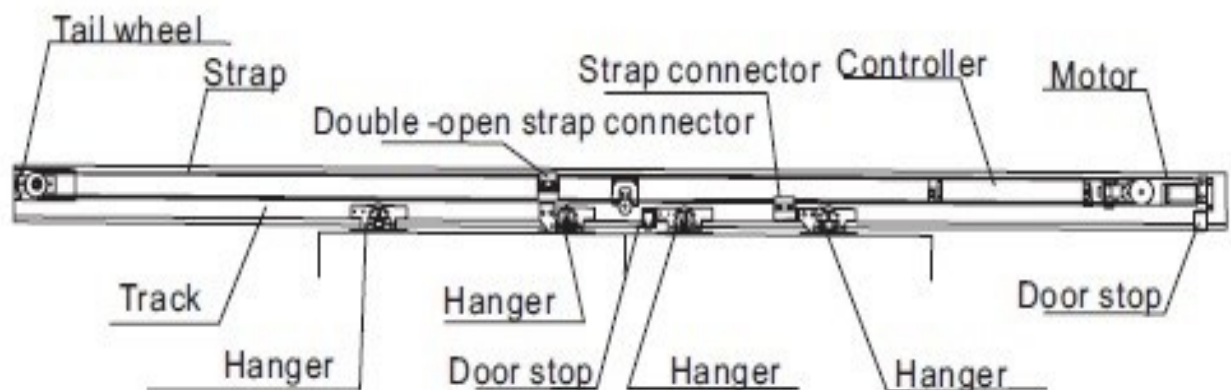
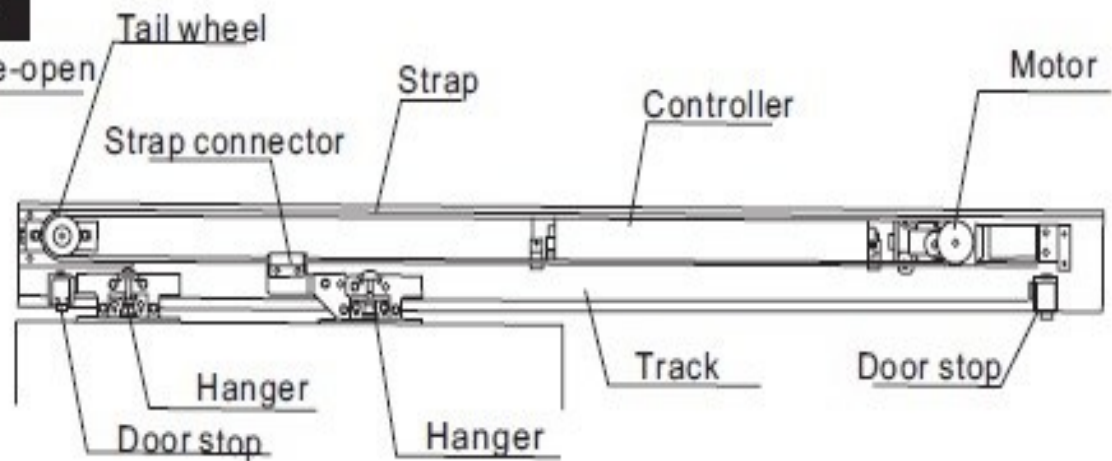
ORT125D

■ Single-open



ORT150D

■ Single-open

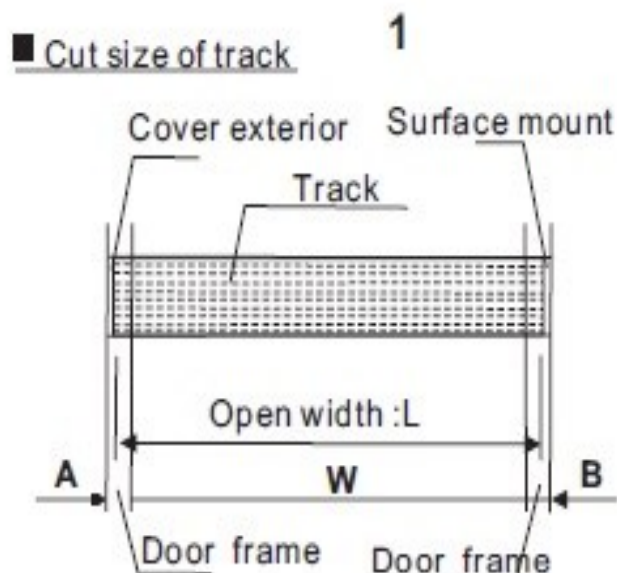


2 List of door operator parts

ORT 120D

Form			Single-open	Double-open
Door weight			90kg×1	70kg×2
Item	Spc.	Photo	Q' ty	
Motor	OTDM0682		1	1
Controller	OTDM0684		1	1
Strap	OTDM0605		1	1
Track	OTDM0608		1	1
Wiring	OTDM0607		1	1
Double-open strap connector	OTDM0604			1
Strap connector	OTDM0603		1	1
Door stop	OTDM0606		1	2
Tail wheel	OTDM0602		1	1
Sensor	OTDM0685		1	2
Hanger	OTDM0601		2	4
Direction tag	OTDM0609		2	4
Warranty Card & Instruction			1	1

4. Installing track



1. Cut off the track

Track: $L=W+A+B-5\text{mm}$
(5mm:outside the end installs the lid 2 parts of sizes)

*Notice: Do not damage track when cutting, or influence the function or lifespan.

2. Drill the screw reservation hole on the doorleaf and the doorframe.
3. Drill the screw reservation hole on the track.
4. Fasten the end cover with the attached self-tapping screw (5×20) into the track firmly.
5. Fasten the track with the self-tapping screw into the leaf and the doorframe firmly.

*Notice: • Please make the track to be level status
• Do not damage the track, or will influence function or lifespan
• Do not appear the tapping screw, or will stop operate smoothly

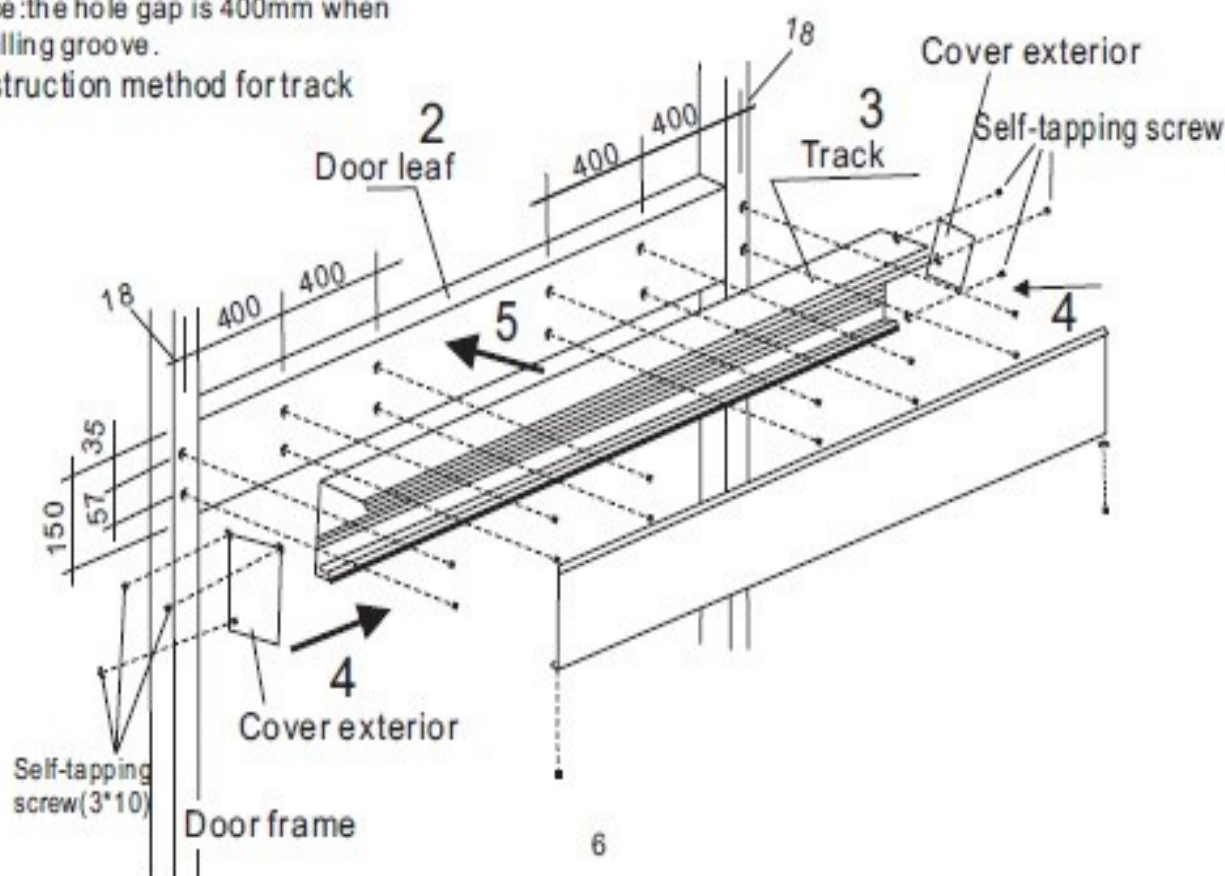
*Notice: • Carry on strictly types of bolt, space installment and amount of screw. If not, it will cause fall.

※ Installing groove

Please construct according to the above-mentioned main points 1-5.

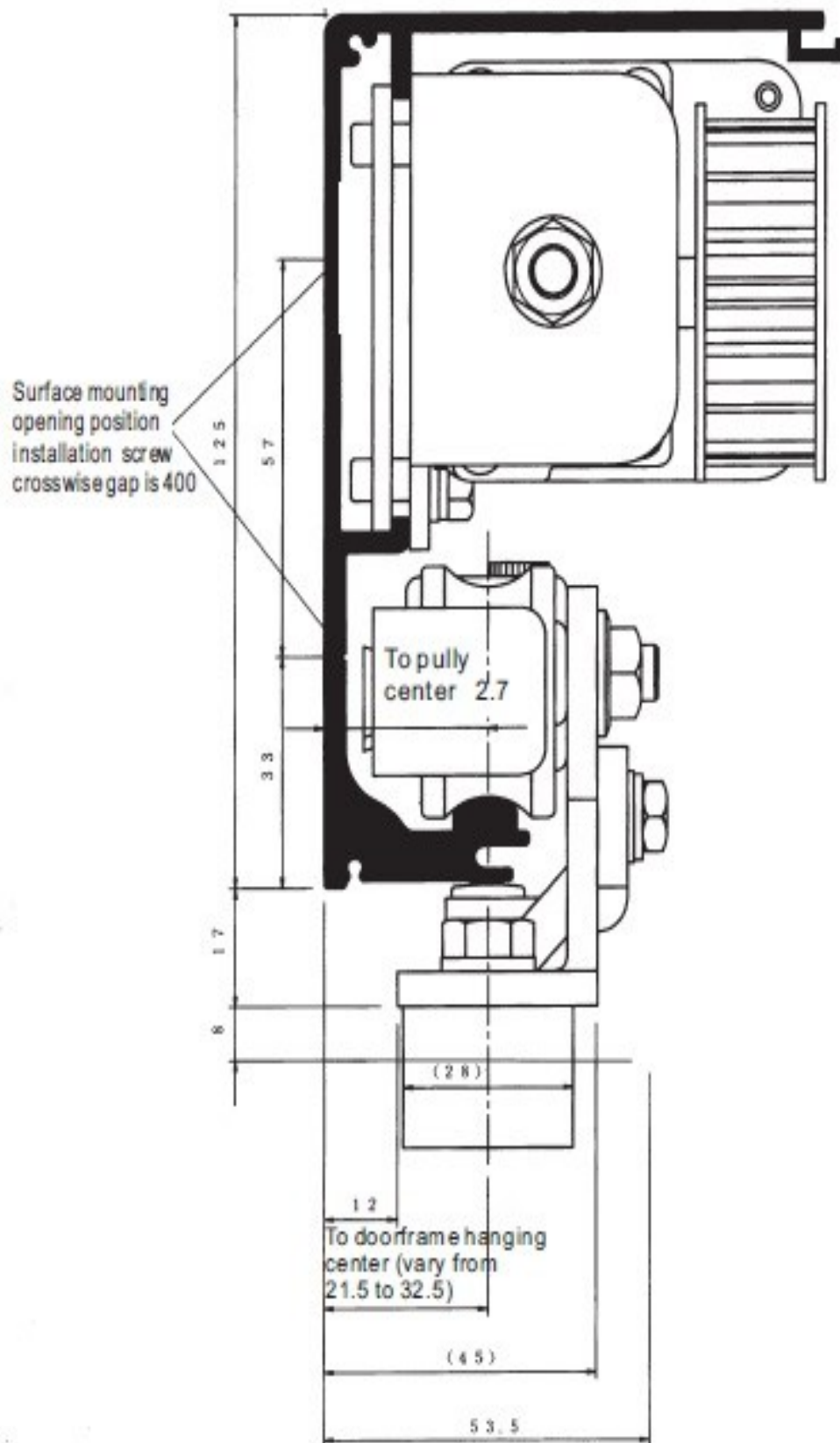
*Notice: the hole gap is 400mm when installing groove.

Construction method for track

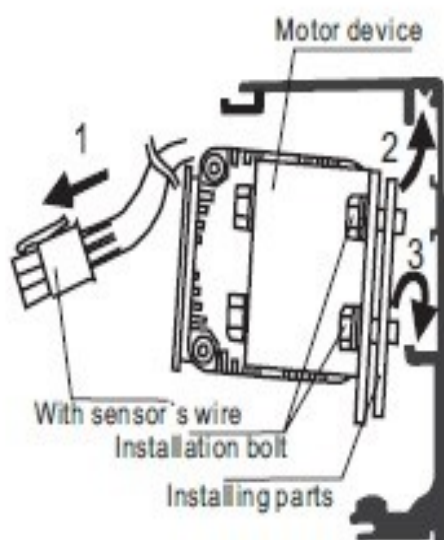


5、Installing track (continue)

ORT150D Section map



6、Installing motor



1、 Set up the sensor wires in front of motor.

Notice: if carelessly operation in the following steps 2,3,5, it will cause fall.

2、 Put the accessories into the upper trench of the track.

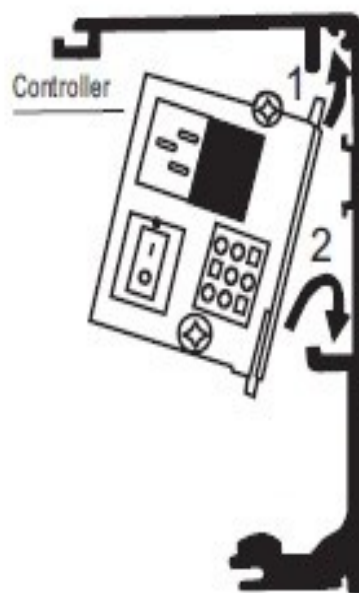
3、 Make sure fix into the lower trench.

4、 Move the motor device to the right side of track.

5、 Install bolt seat.

6、 Put the wires which attached to the sensor throuth the upper of motor, and then extend to the left ,to avoid ptosis.

7、 Installing motor



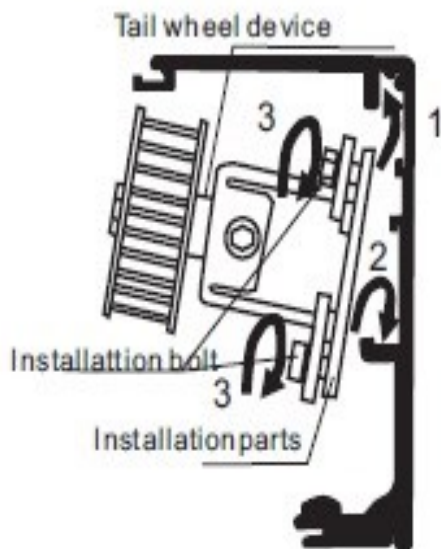
Notice:If carelessly in the following steps1、 2, it will cause fall.


1、 Put the controller device into the lower of the trench.

2、 Make sure fix into the lower groove.

3、 Move the soft-wire of the motor to the connection position.

8、Installing tail wheel



Notice:  If carelessly operation in the following steps 1、 2,it will cause fall.

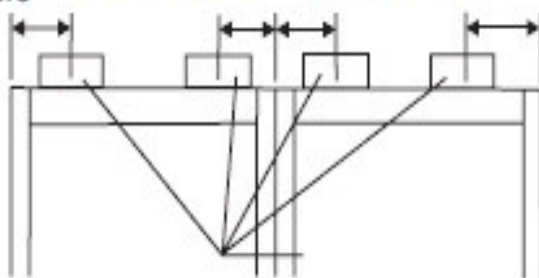
- 1、 Put the controller device into the lower of the trench.
- 2、 Make sure fix into the lower groove.
- 3、 Move the tail wheel to the track left ,and tighten the installation bolt.

9、Hanging door

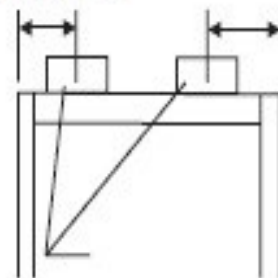
- 1、 Install the hanger in the designated position.(if carelessly,it will cause fall.)

Hanger installation location drawing

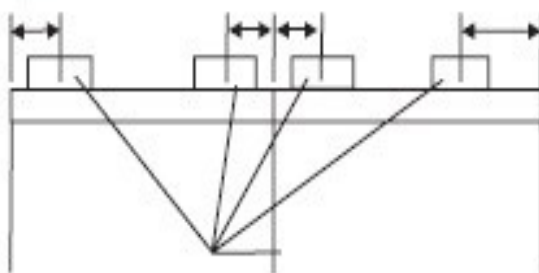
Aluminum, wood, stainless steel frame doors
Double doors



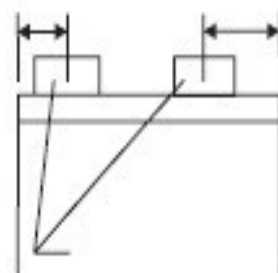
Single door



Toughened glass door
Double doors



Single door



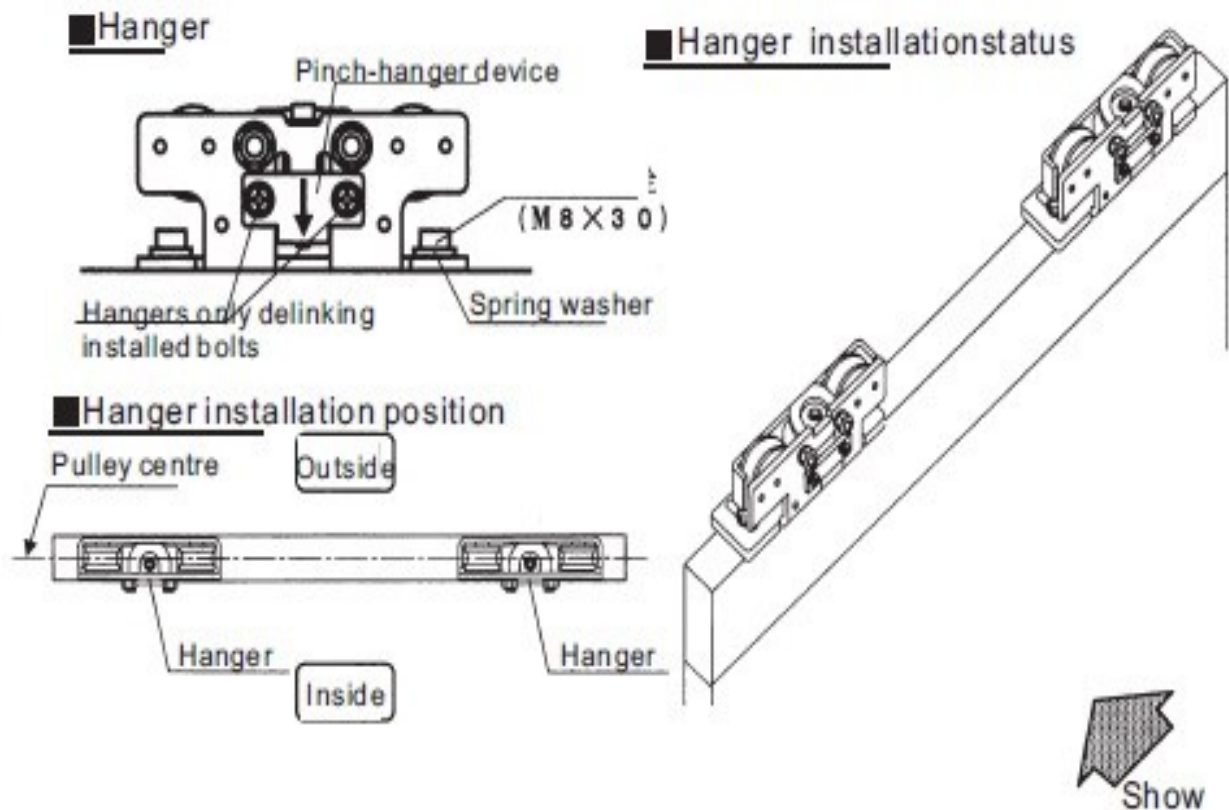
Notice:The use of electric lock(option)is 210--230

Notice:when installing,the pulley centreof the hanger should be made in parallel status with the door frame.If not,it will cause to shorten the lifespan of pulley.

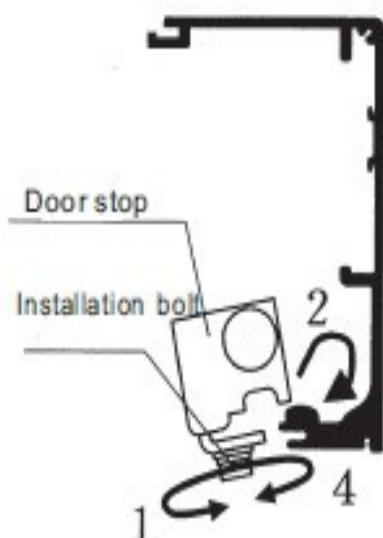
- 2、 loose the installation bolt of the pinch-hanger device,and then lessen the pinch-hanger fixed position.
- 3、 link the hanger pulley to the track .

Notice:Please do not damage the inside components of the tracks,or it will create parts failure or shorten the life of pulley,noise, and such as a normal noise .

10、Installing hanger

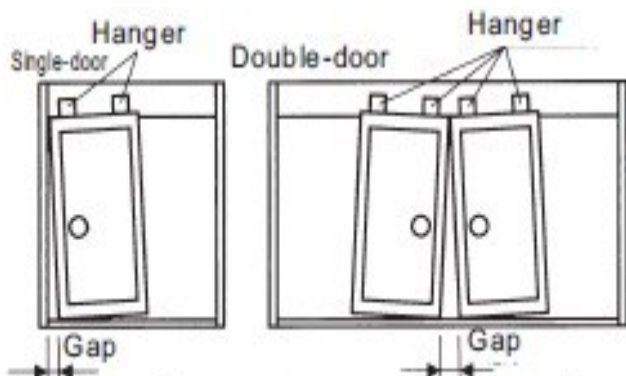


11、Hanging door stop

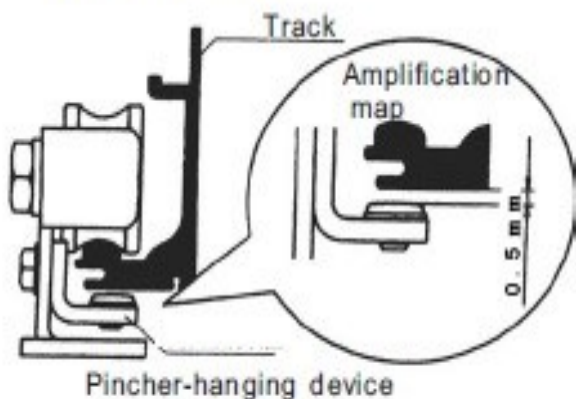
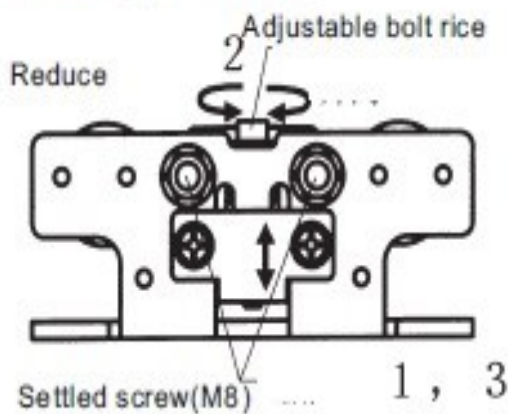


- 1、Loose the installation bolt of door stop.(heagon bolt:M8)
- 2、Make sure fix the door stop into the track.
Notice:Do not hurt track.
- 3、Move to the opening position of the door, confirm the door stop position.
Notice:Do not hurt track.
When setting up the position of door stop , stop after willsion with the washer.
- 4、Tighten the installation bolt by wrenches
*If carelessly,it will cause door breakage.

12、 Adjusting the height of doorframe



The adjustment sequence of construction and installation height



• Like as the left figure, when the door is unable horizontal installing, and then make the installment adjustment.

- 1、 Loosen bolts.
- 2、 Make construction and installation with the adjustable bolt
 - Rise the revolving door in clockwise
 - Reduce the revolving door in counter clockwise

Notice: If there is something carelessly operation in the following steps 3、 4, it will create fall.

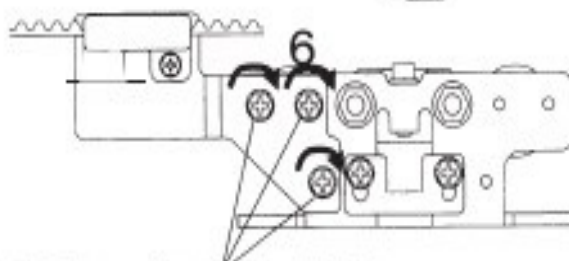
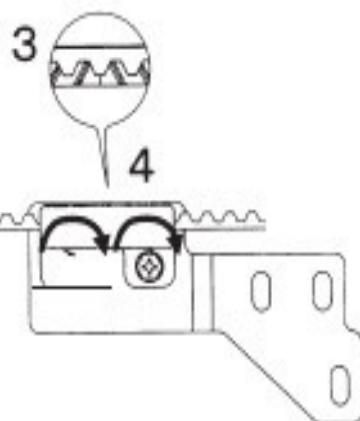
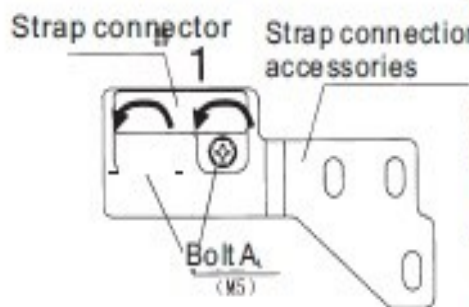
- 3、 Tighten the fixed bolt
- 4、 After confirming the gap between track lower part, fix the hanging bracket escapes, the gap is 0.5mm.
- 5、 Confirm the walking resistance. confirm whether move the leaf with an forefinger, walking below resistance at 600g. move the door, confirm that the pulley of the hanging bracket device rolls in the track. if the leaf migration is hard, confirms the following items in order to recover normal.

• Confirm items

- 1、 Whether the hanging shelf install in the doors vertically.
- 2、 Whether there is the friction between the lower stops of the door and the tracks.
- 3、 Whether there is the friction between the pinch-hanger device and the track.
- 4、 Whether there is the friction between the hanger and horizontal frame.
- 5、 Whether there is the friction between doorframe and leaf.

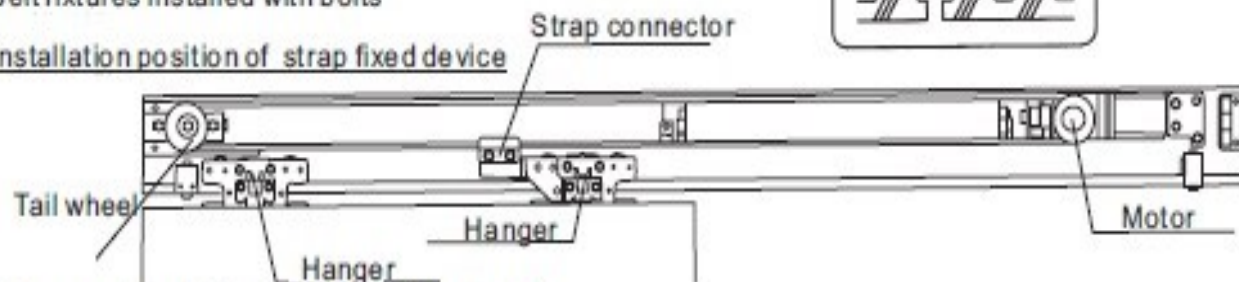
13、Installing belt

Single-open
*strap installed steps



Belt fixtures installed with bolts

Installation position of strap fixed device



Strap cut-out diagram(single-open)

1. Dismantle bolt A (M5), and take the fixed strap off the strap connection accessories.
2. Refer to the strap cutting off diagram, cutting off the strap.

Notice: please cut off the strap in the centre of bottom.

3. Intersect the both sides of strap, and put them to the fixed machine.

Notice: Do not distort the strap when installing

4. Install the strap fixed machine to the strap connection accessories.

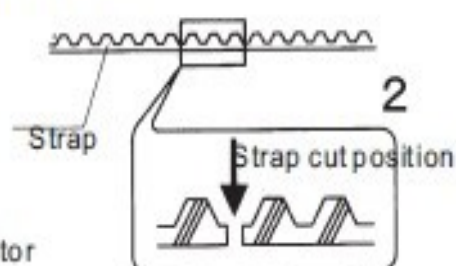
Notice: Please note the direction of the fixed strap.

5. Hang the strap to the motor besides the strap wheel, then hang to the tail wheel.

6. Refer to the above-mentioned picture, install the installation bolt, and to fix the hanging shelf

Notice: Use the wrench to tighten the bolt.

*Strap cut position



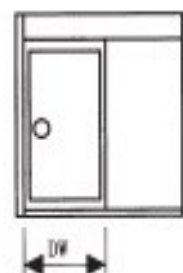
The standard for strap cut-out size L

$$W=700\sim 1,000$$

$$L=(DW-100)\times 4$$

$$DW=1,000\sim 1,250$$

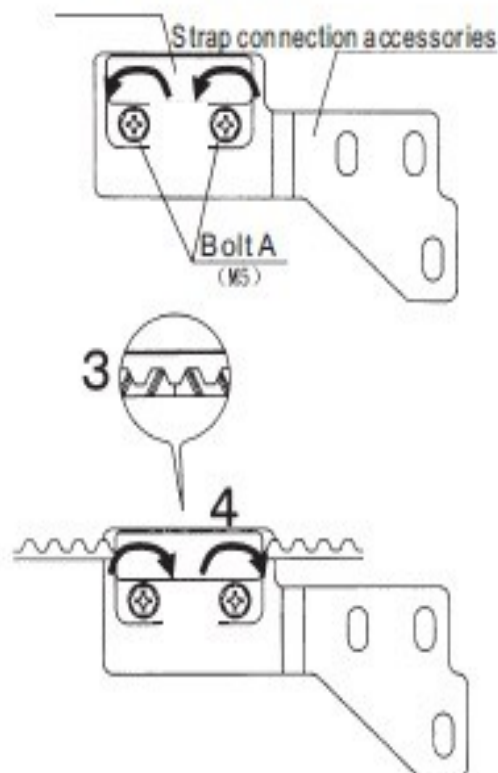
$$L=3,700$$



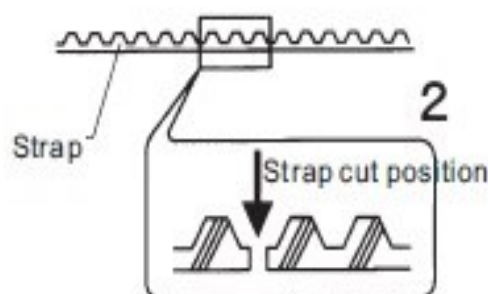
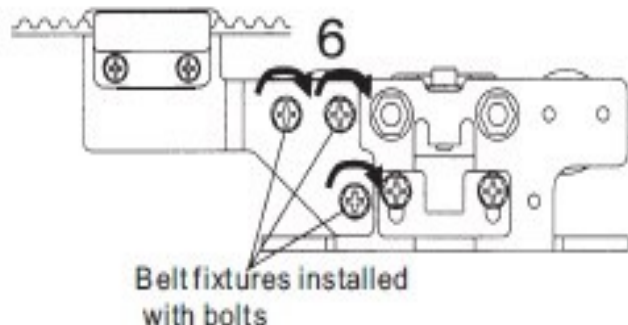
Notice: the above-mentioned calculation only is a standard, please adjust as confirm the real size.

Double-open

*strap fixtures installed steps
strap fixed device



- 1、Dismantle bolt A (M5), and take the fixed strap off the strap connection accessory.
- 2、Refer to the strap cutting off diagram, cutting off the strap.
Notice: please cut off the strap in the centre of bottom.
- 3、Intersect the both sides of strap, and put them to the fixed machine.
Notice: Do not distort the strap when installing
- 4、Install the strap fixed machine to the strap connection accessories.
Notice: Please note the direction of the fixed strap.
- 5、Hang the strap to the motor besides the strap wheel, then hang to the tail wheel.
- 6、Refer to the above-mentioned picture, install the installation bolt which attached to the strap fixed device, and to fix the hanging shelf.
Notice: Use the wrench to tighten the bolt.



Strap cut-out diagram(double-open)

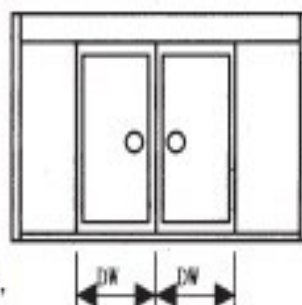
The standard for strap cut-out size L

$$DW = 700 \sim 1.050$$

$$L = (2 \times DW - 100) \times 4$$

$$DW = 1.050 \sim 1.250$$

$$L = 8,200$$

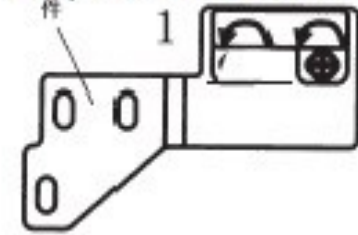


Notice: the above-mentioned calculation only is a standard, please adjust as confirm the real size.

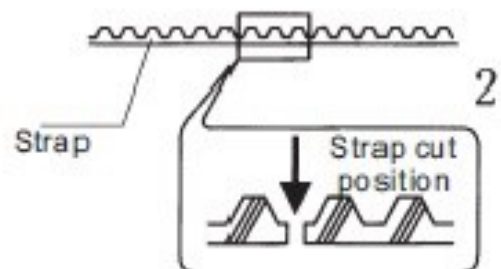
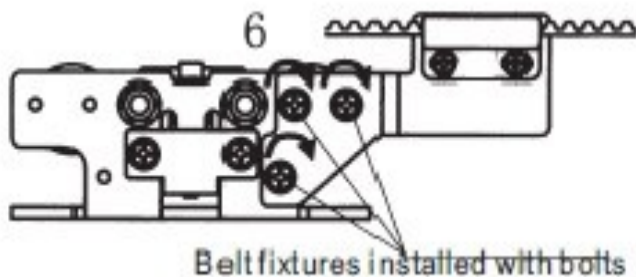
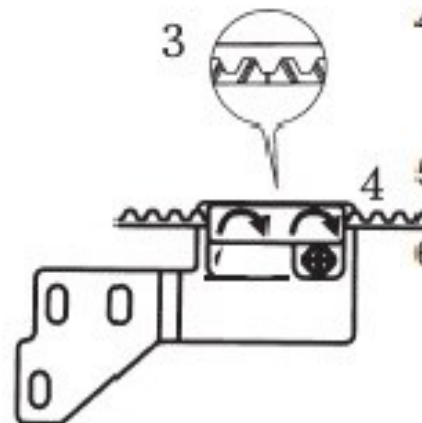
14、Installing double-open strap

*strap fixtures installed steps

Strap connection accessories

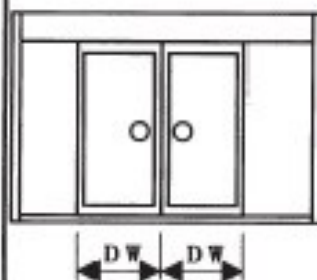


- 1、Dismantle bolt A, take apart the strap fixed accessories from the strap connection accessories.
- 2、Refer to the diagram, cut off the strap.
Notice: separate the strap from the centre of bottom.
- 3、Crosswise two sides of strap, put it to the strap settled place
Notice: Do not distort the strap when installing
- 4、Put the strap fixed accessories to the strap connection accessories.
Notice: Note the direction of the strap fixed accessories.
- 5、Hang the strap to the tail wheel, then to the side of motor.
- 6、Install the installation bolt (M6*12) the attached strap fixed device to the position as the following picture.
Notice: Tighten the bolt with wrench



Strap cut-off table(double-open type)

$$\text{Strap length} = (\text{DW} * 3 + 250) * 2 (\text{Unit: mm})$$



Strap correspondence table

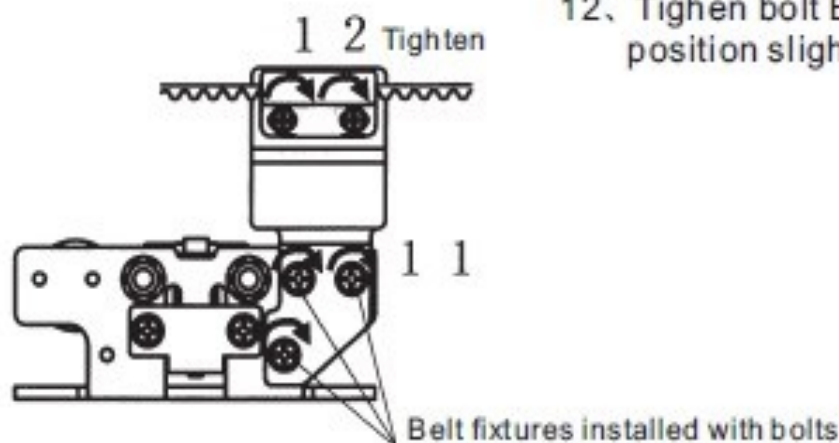
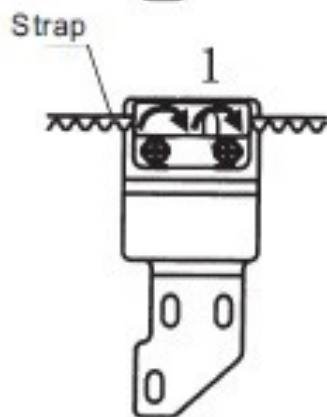
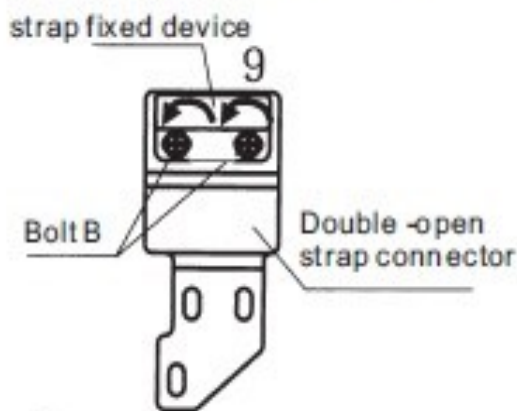
	DW (mm)	
Standard	600~1, 067	The strap length which attached engine device
Special ordered strap	1, 068~2, 500	NKA8112041 Length is 21m

Strap cut-off table

DW (mm)	Strap length (mm)
600	4, 100~4, 150
750	5, 000~5, 050
800	5, 300~5, 350
850	5, 600~5, 650
900	5, 900~5, 950
950	6, 200~6, 250
1000	6, 500~6, 550
1067	6, 900

15、Installing double-open strap(continue)

■ *strap fixtures installed steps



7、Adjust strap tension Please refer to Page 15 adjuststrap tension

8、Make sure two doors be closed .
If need lock by hand ,Please lock it.

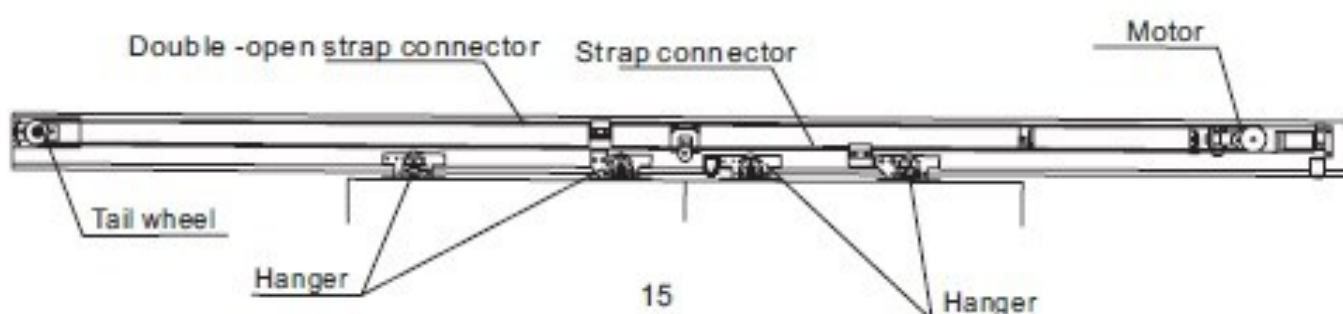
9、Dismantle bolt B (M5),take it apart from the strap settled accessories.

10、Install the strap fixed accessories to the strap, fixed on the double-open strap connection component.

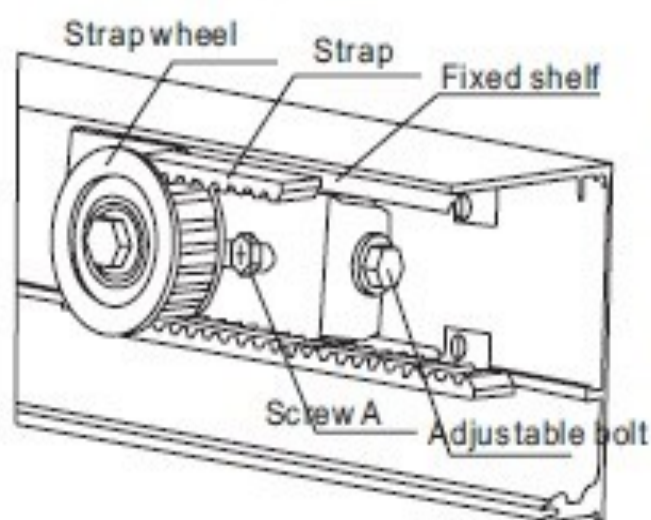
11、Install the bolt of attached strap fixed accessories as the following picture.
Notice:Tighten the bolt.

12、Tighen bolt B after changing the door position slightly

■ Strap connection accessories of double-open type



16、Installing double-open strap(continue)



- 1、 Tighten the strap from the left of the tail wheel, and to install the bolts.
- 2、 Loosen two screws A
- 3、 Circumrotate the screw clockwise to adjust strap tensility, then make strap to be appropriate status.
- 4、 At last, tighten two screws A in turn.