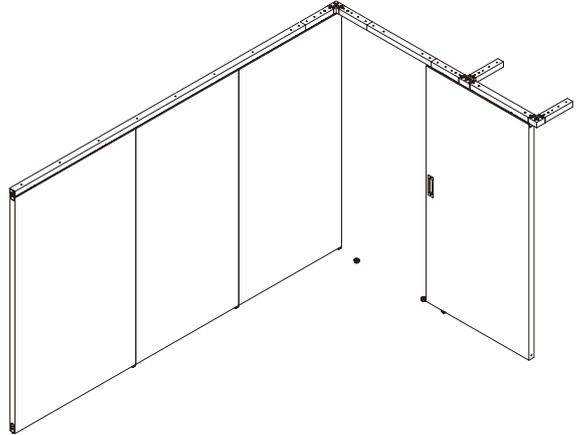


LAMP® Stackable PARTITION DOOR SYSTEM FDPN40P2D Installation Manual (Parallel Stacking)

Thank you for selecting our product. Before starting installation, please read this manual thoroughly to ensure correct installation. Please keep this manual at hand for future reference.

ABOUT THE PRODUCT

- This product is parts set for installation of sliding partition for indoor use.
It is possible to stack panels at a side in parallel.
- Since panels are suspended, no bottom track is needed.
Thanks to exclusively designed rollers, smooth movement of panels are realized.



APPLICABLE PANELS

Partition face	Number of panels	Panel width		Panel height	Panel thickness	Panel weight (each panel)	Panel vertical adjust range
		Stackable door, Stackable panel	Sliding panel				
Two	3 to 6 (※ ¹)	500 - 900 mm (※ ¹)	500 - 1100 mm (※ ¹)	Max. 2500 mm	34 - 40 mm	Max. 40 kg	Upward: 0 mm Downward: 7 mm

※¹ These sizes are available by the choice of stacking track.

FOR YOUR SAFE WORK AND CORRECT INSTALLATION

Meaning of symbols

 Warning Caution	 Prohibited	 Required
---	---	---

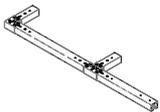
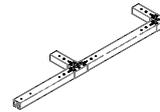
! WARNING If not followed, death or serious injury may result.

- ❗ This partition door system should be installed by a qualified person. If the system is not installed correctly, the panel will not operate smoothly, and may cause injury.
- ❗ It is necessary to manufacture the frame with sufficient strength so that it endures the weight of the panel and any impact upon opening / closing the panel. Only use designated screws and ensure that they are fastened firmly. A frame with poor strength or loose screws might result in the panel falling and causing injury.
- ⊘ Do not try to use this product for anything other than its original purpose. Do not use any part for applications outside of its specification.
- ⊘ Do not disassemble nor modify any parts other than those described in this document.

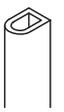
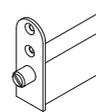
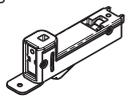
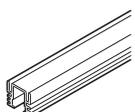
! Caution If not followed injury or damage may result.

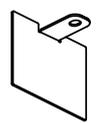
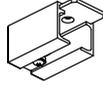
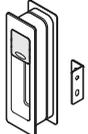
- ❗ This product is a part for architectural fittings. After installation, make sure to test the finished product thoroughly to ensure that it is well-functioning and safe.
- ❗ Make sure to follow the designated dimensions, specifications, and horizontal/vertical angles. Make sure that the frame is not warped, since it may affect the movement of the panel.
- ❗ If cutting any parts, make sure to remove any burrs before installation. Also check the upper rail for any left-over burrs or scraps and remove these.
- ❗ When using electric tool, pay attention to avoid over-tightening.
- ❗ Make sure to check the screws for slack at regular intervals (one month from first usage, half a year, and then one time every year is recommended).

COMPONENT PARTS

Left or right stacking	No. of panels	①	②	③	④	⑤	⑥	⑦	⑧	
		Upper track	Stacking track ※Refer to the table on page 4 for the choice of stacking track.	Corner Track	Connecting plate (one piece attached to ②)	Recessed rollers for stackable panel	Recessed rollers for corner passing	Hanging bracket (2 pcs/set)	End cap	
Left stacking	3	1		1	3	1set	2 set	3 sets	6	
	4									
	5	2	4		5 sets					10
	6									
Right stacking	3	1		1	3	1set	2 set	3 sets	6	
	4									
	5	2	4		5 sets					10
	6									

Stackable door is included in "No. of panels"
Attachment: Adjust spanner (1 pc)

Parts sold separately	⑨	⑩	⑪	⑫	⑬	⑭	⑮
No. of panels							
3	2	0 - 1 ※ ¹	0 - 1 ※ ¹	2	3	2	1
4	3	1 - 2 ※ ¹	1 - 2 ※ ¹	3			
5	4	2 - 3 ※ ¹	2 - 3 ※ ¹	4			
6	5	3 - 4 ※ ¹	3 - 4 ※ ¹	5			
	Must be used on stackable panel to lock.	Must be used to hide the gap between panels. To be used by pairs.		To hide the gap between panel and floor.	For straight travel of stackable door		

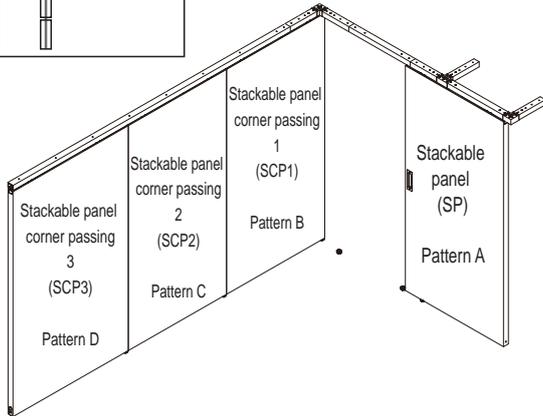
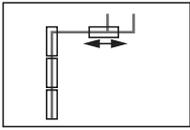
⑯	⑰	⑱	⑲
End plate FDP40-TREP 	Stopper FDP40-ESTP 	Stopper FDP40P-ESTP 	Recessed pull HH-P135 
—	—	—	—
To cover the end of track (This is not a stopper.)	For upper track	For stacking track	For stackable door

※¹ It depends on the layout of panels.
When only stackable panel (SP) comes to stackable track at closed status, one more piece is required. (See page3 - Panel combination 1+3)

PANEL COMBINATION

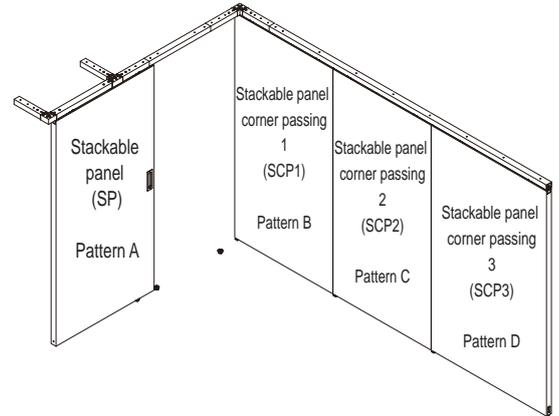
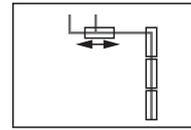
● Right stacking

Panel combination 1+3



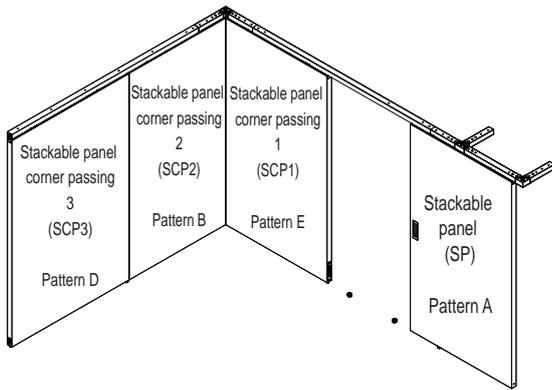
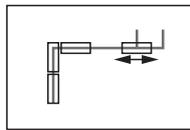
● Left stacking

Panel combination 1+3



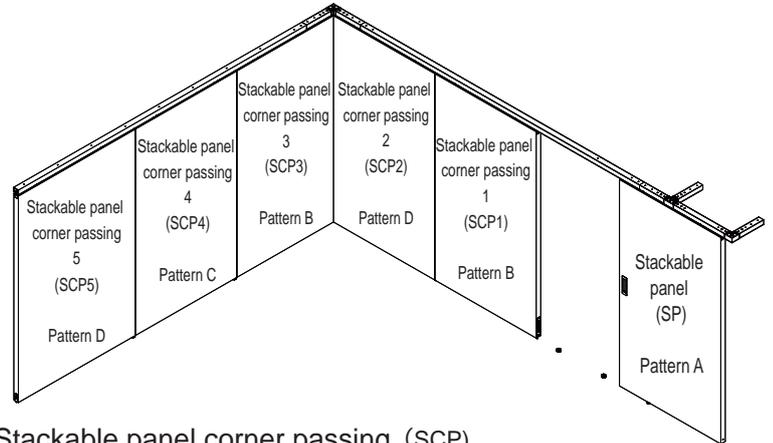
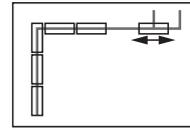
● Right stacking

Panel combination 2+2



● Right stacking

Panel combination 3+3



■ Stackable panel (SP)

Use as a sliding door when the panels are closed.
Use magnet floor guide to travel straightly.

■ Stackable panel corner passing (SCP)

Using flash bolt when the panels are closed.
Using recessed rollers for corner passing.

Parts for each panel (sold separately)

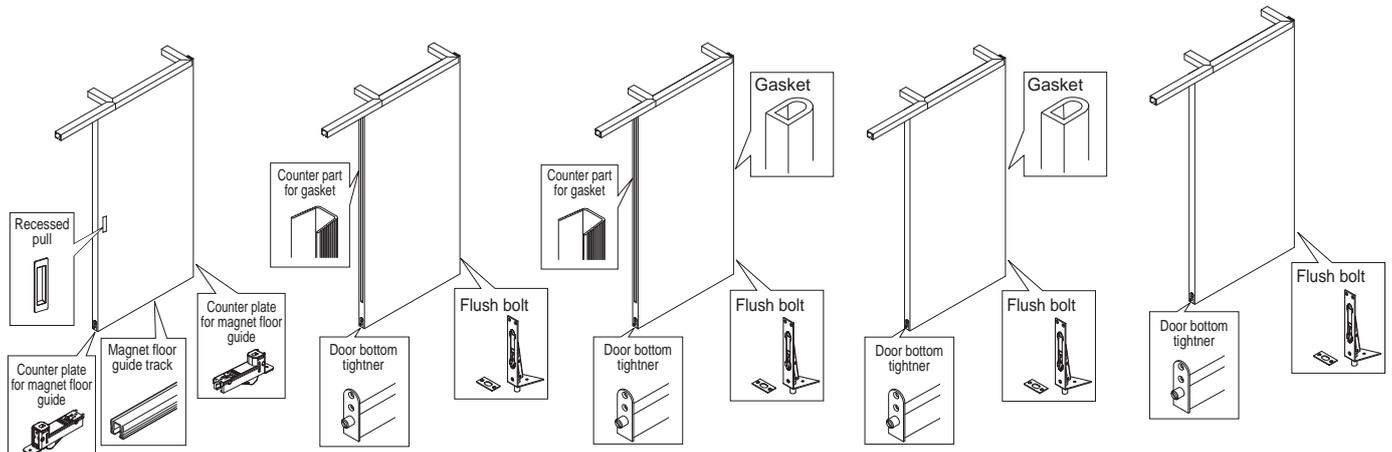
[1] Pattern A

[2] Pattern B

[3] Pattern C

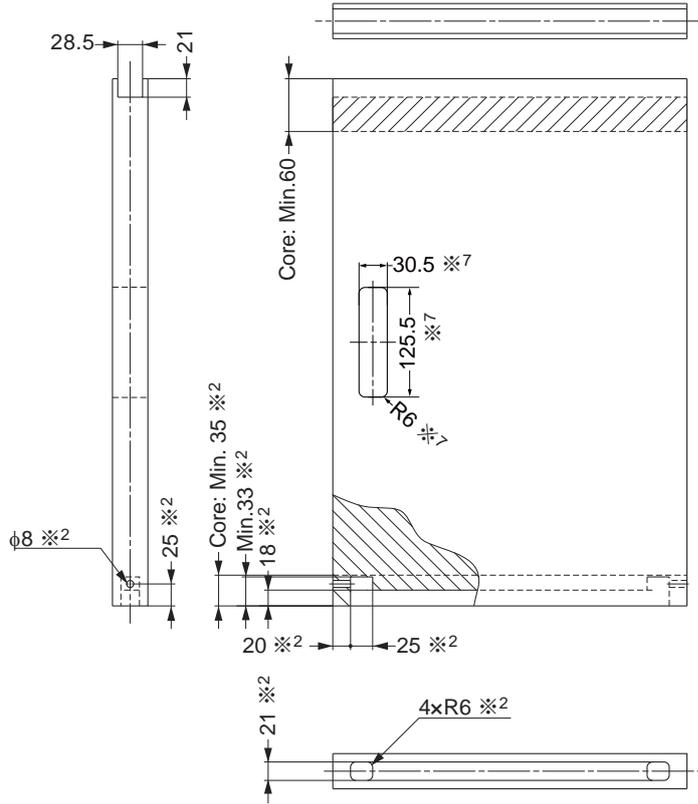
[4] Pattern D

[5] Pattern E

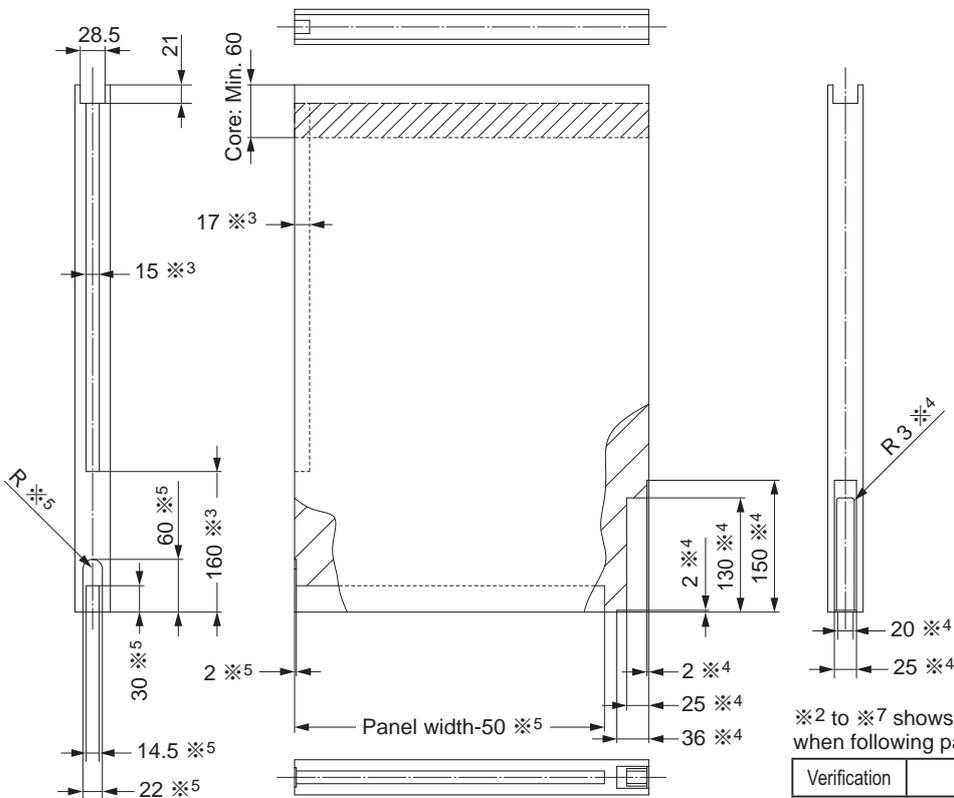


PANEL PROCESS DIMENSIONS

■ Pattern A



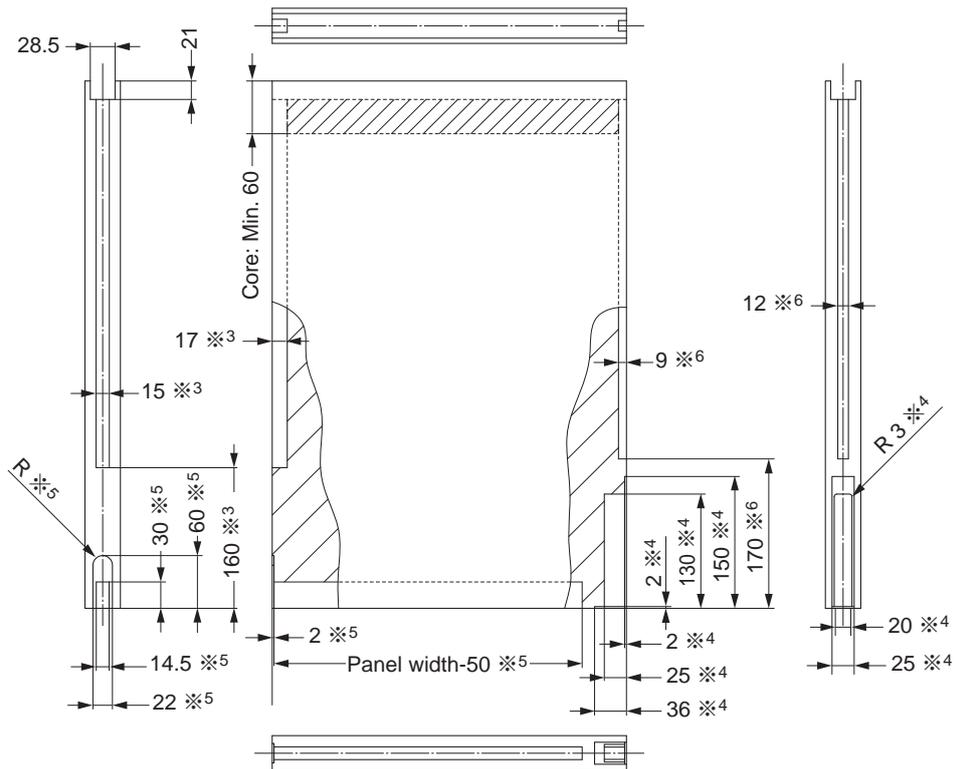
■ Pattern B



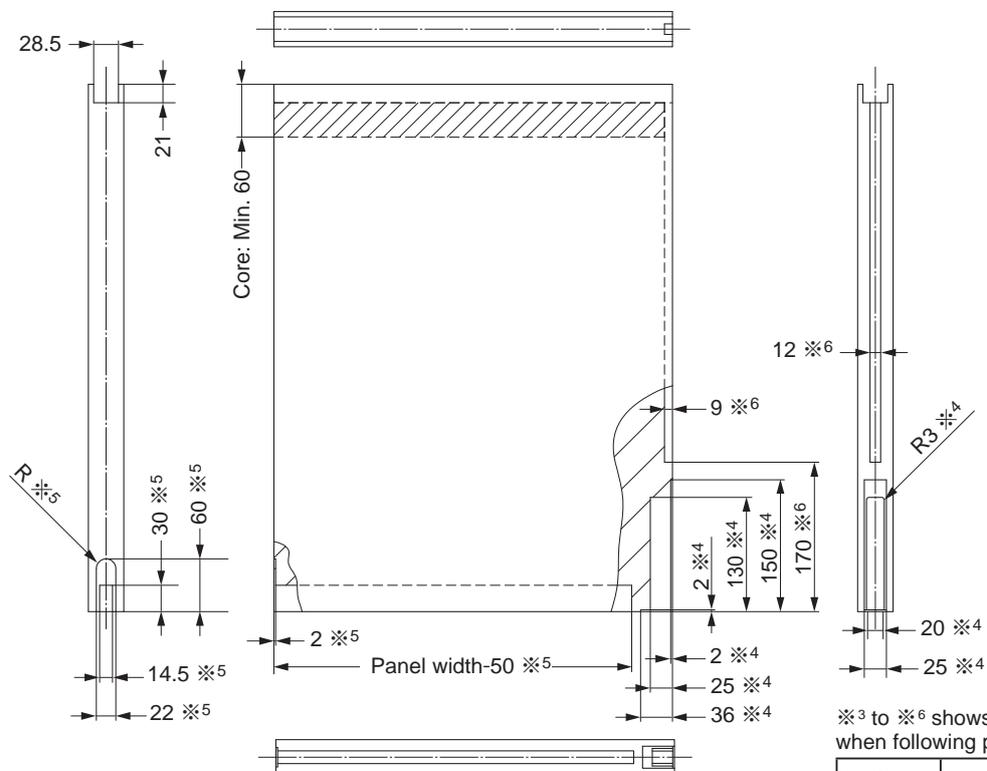
※2 to ※7 shows process dimensions only when following parts are used.

Verification	Part name
※2	⑭ Counter plate for magnet floor guide ⑮ Magnet floor guide track
※3	⑪ Counter part for gasket
※4	⑨ Flush bolt
※5	⑫ Door bottom tightner
※7	⑱ Recessed pull

■ Pattern C



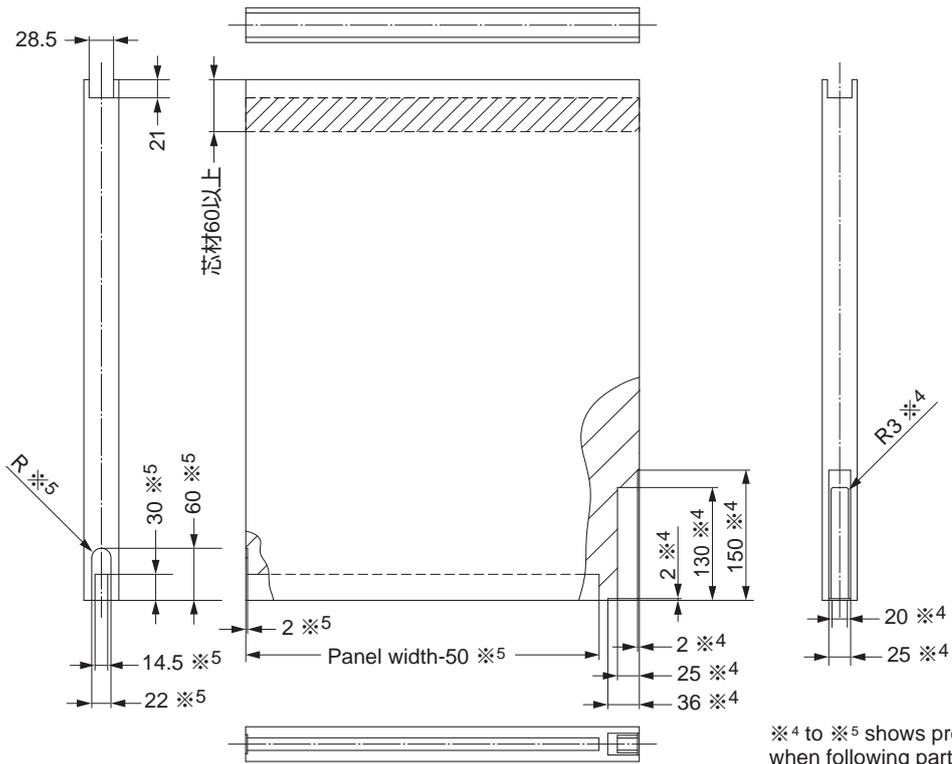
■ Pattern D



※³ to ※⁶ shows process dimensions only when following parts are used.

Verification	Part name
※ ³	⑪ Counter part for gasket
※ ⁴	⑨ Flush bolt
※ ⁵	⑫ Door bottom tightner
※ ⁶	⑩ Gasket

■ Pattern E



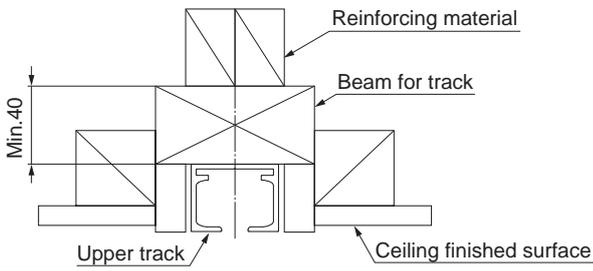
※4 to ※5 shows process dimensions only when following parts are used.

Verification	Part name
※4	⑨ Flush bolt
※5	⑫ Door bottom tightner

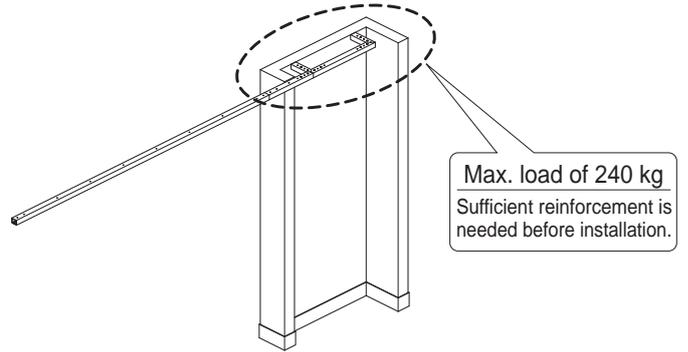
CHECK POINTS FOR INSTALLATION

[1] Structure of beam

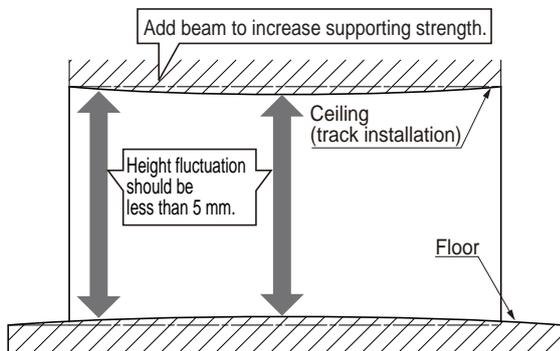
Arrange a beam for track with reinforcing material to prevent track from warping.



Make sure that the ceiling is strong enough to support a load of 240kg

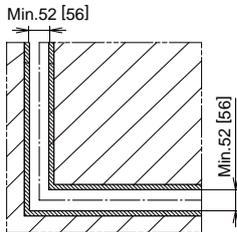


[2] Check the ceiling for sag and floor for warp.

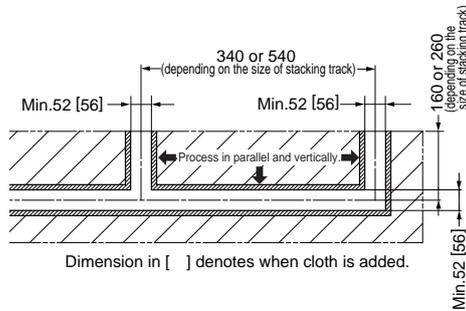


[3] Process when recessing the track

● Corner Part



● Stacking Part

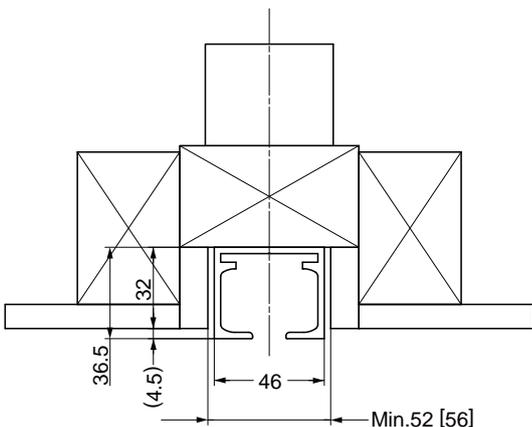


Caution

❗ The groove should be processed so that the track would not be deformed.

- Width of groove
- Right angle
- Parallel

Cross section



When processing without gap between ceiling face and track

- 1 Mount track.
- 2 Process ceiling surface.

TOOLS NEEDED FOR INSTALLATION



Phillips Screwdriver #2



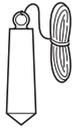
Screwdriver ※11



Adjust spanner
Order code: 250-017-168
Part No.: FD30-FSP



Spanner 10 mm



Plumb ※8, ※9



Adhesive for synthetic rubber and wood ※10



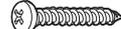
Drill bit: $\phi 12$ ※9, $\phi 24$ ※8



Drill bit: $\phi 3.5$ ※8



Drill bit: $\phi 5$ ※11
 $\phi 6$ ※12



Pan head tapping screw ※8, ※11



Saw for metal ※11



Drill ※8, ※9
※11, ※12

Tool for magnet guide pin
(Choose either one)



Spanner 22 mm
Order code: 250-022-252
Part No.: FD80-HHSP



Special tool
Order code: 270-180-388
Part No.: Z059

※8: For installation of magnet floor guide

As for drill bit $\phi 24$, choose suitable one according to the material of the floor.

※9: For installation of flash bolt. As for drill bit $\phi 12$, choose suitable one according to the material of the floor.

※10: For installation of gasket (acrylic modification silicon resin, elastic adhesive or the like)

※11: For installation of door bottom tightner.

※12: For hole processing of tracks.

INSTALLATION PROCEDURES

This describes the installation of right stacking. In case of left stacking, positions and direction of the parts are mirror image.

1 Cutting, Hole Processing for Long Parts

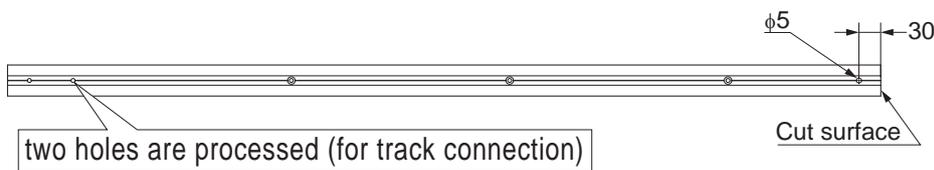
[1] Upper track

(Refer to the shop drawing about the cutting length.)

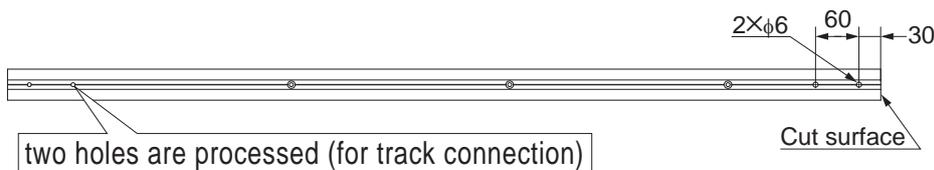
⚠ Caution

❗ Remove any dirt or aluminum chips from the track.

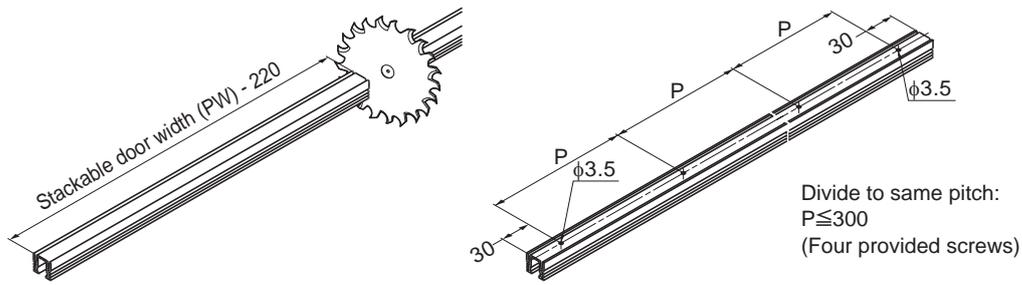
End track



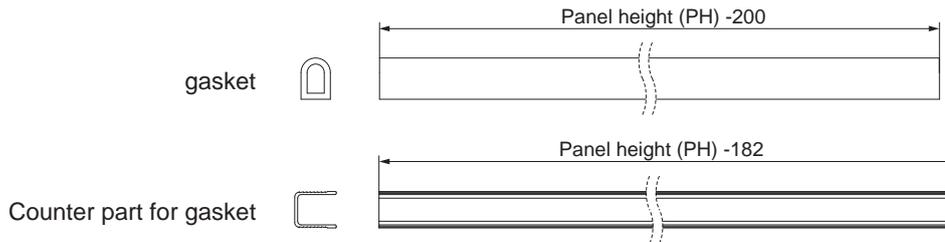
Intermediate track



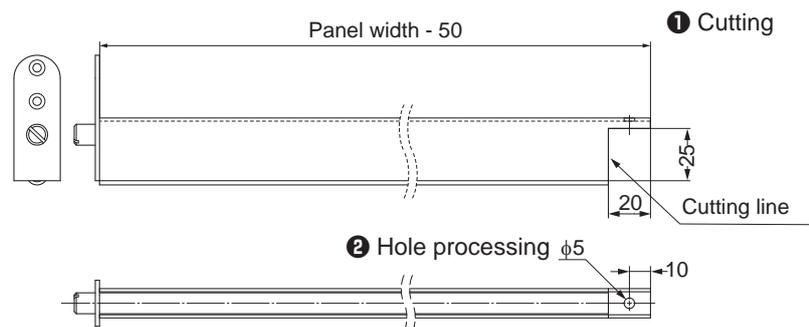
[2] Magnet floor guide track



[3] Gasket, Counter part for gasket



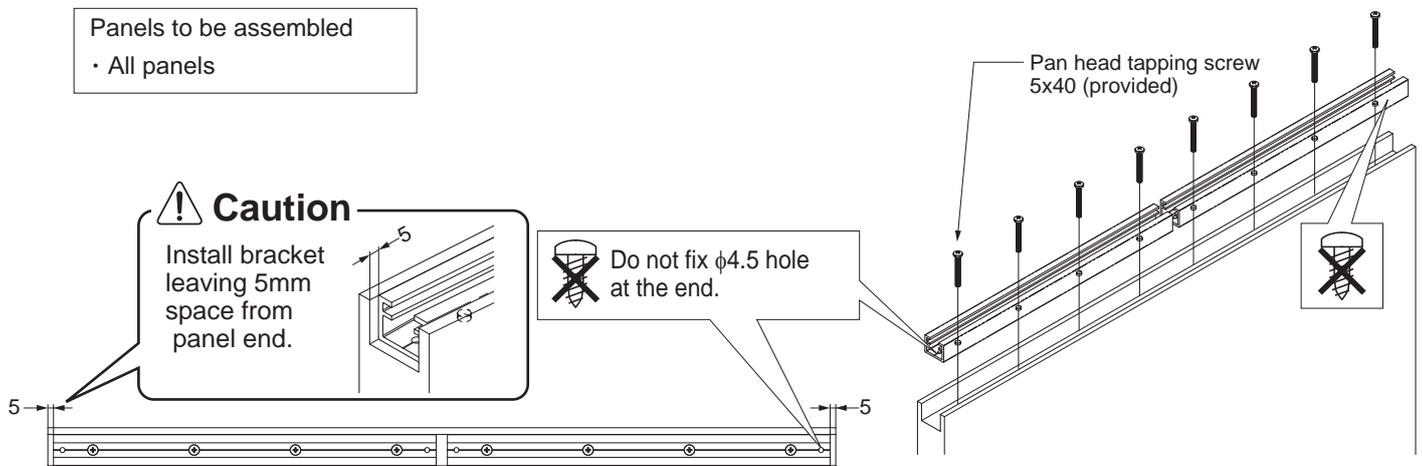
[4] Door bottom tightner



2 Parts Assembly on Panels

[1] Hanging bracket

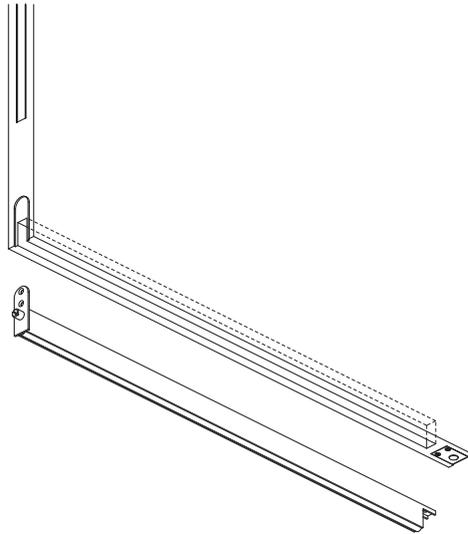
Panels to be assembled
 • All panels



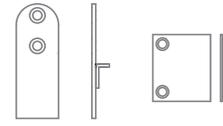
[5] Door bottom tightner

Panels to be assembled
• Stackable panel
corner passing (SCP)

Provided screws



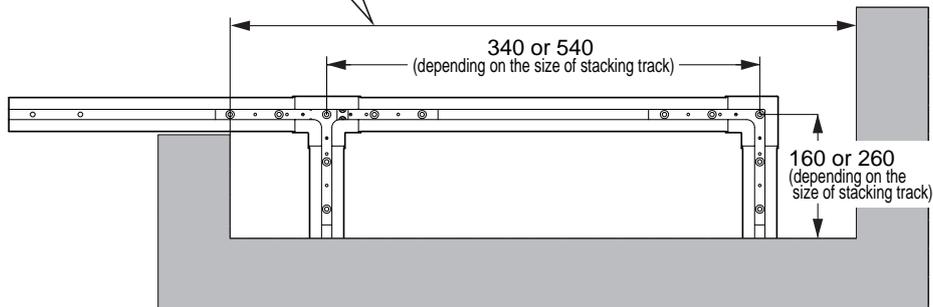
Below parts in the package
are not necessary.



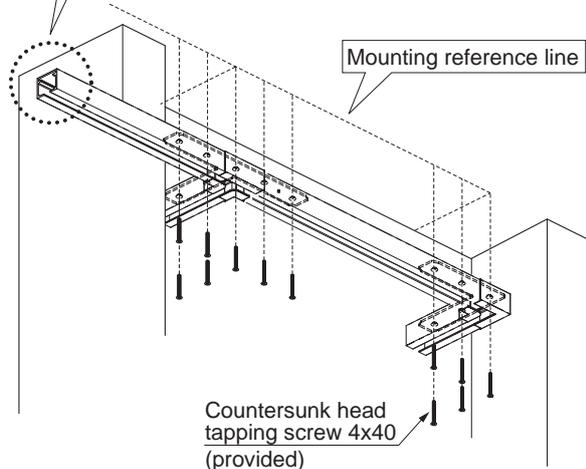
Pan head tapping screw 4x20
(Not provided)

3 Mounting Stacking Track

Refer to the shop
drawing about the
position of the track.



Do not fix these two holes in this stage.
It will be fixed later.

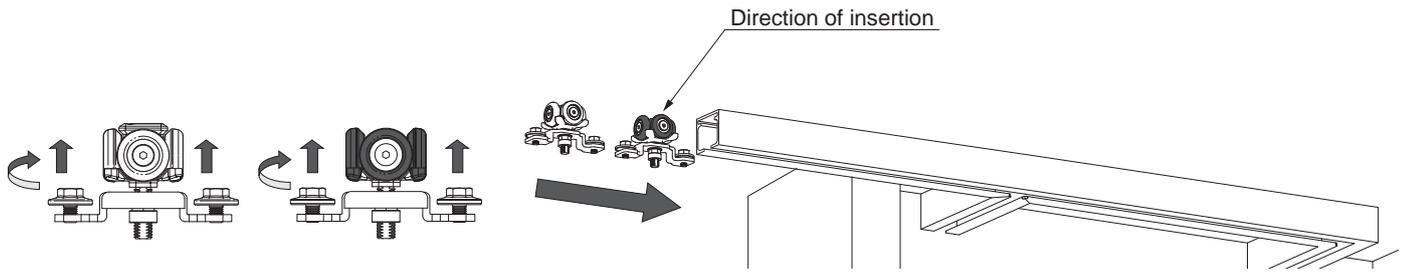


Countersunk head
tapping screw 4x40
(provided)

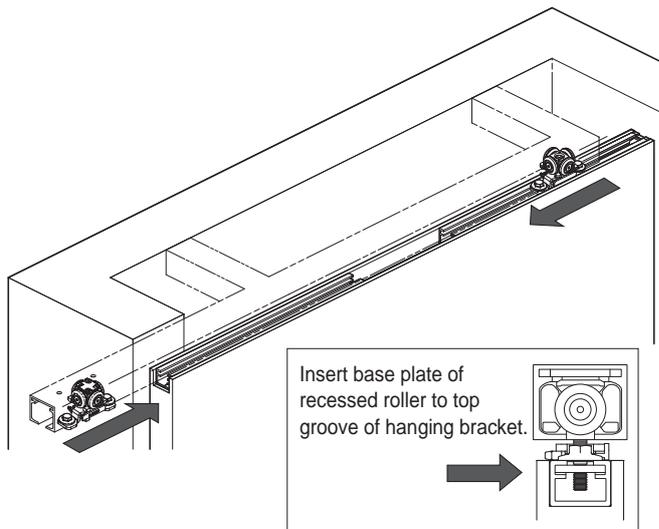
4 Assembling Recessed Rollers, Hanging Panels

[1] Workflow

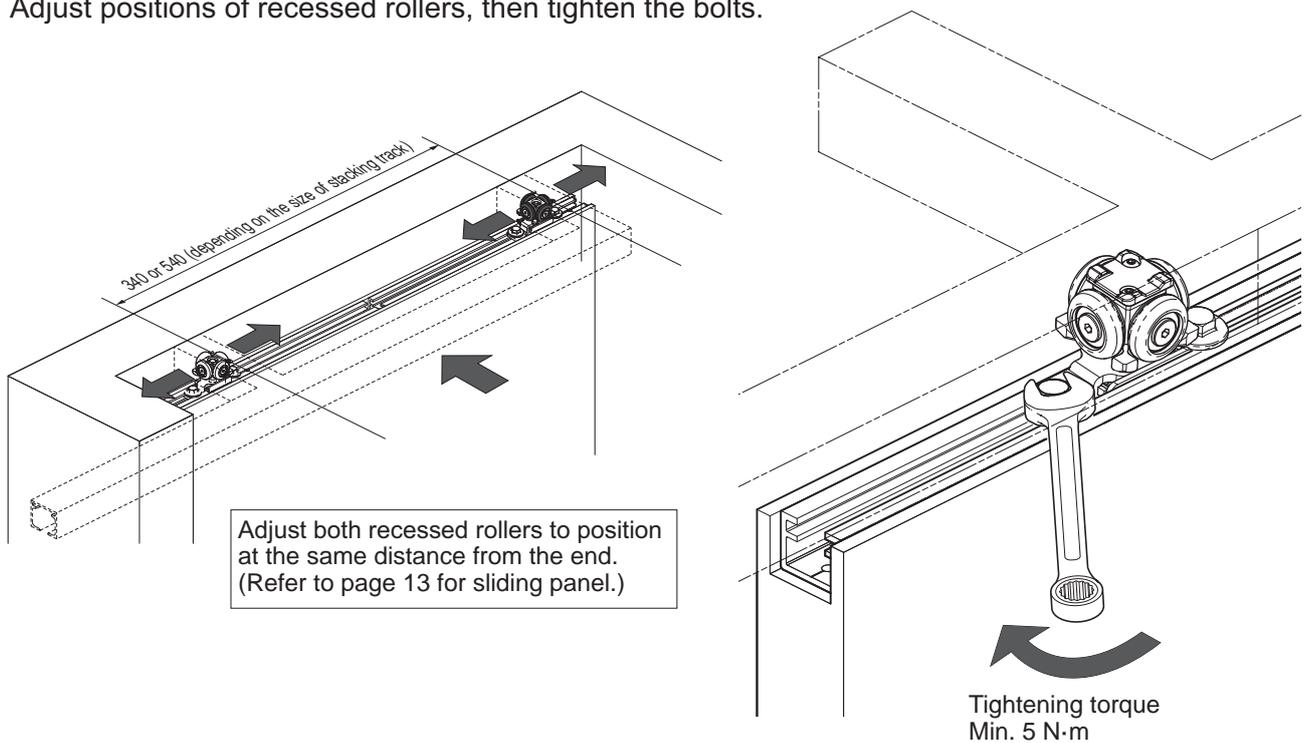
- 1 Loosen tightening bolts on recessed rollers.
- 2 Insert recessed rollers to stacking track.



- 3 Bring the panel, then insert recessed rollers from both sides.



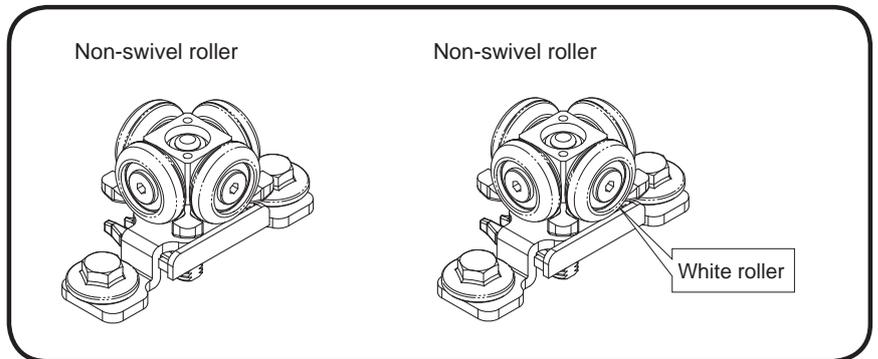
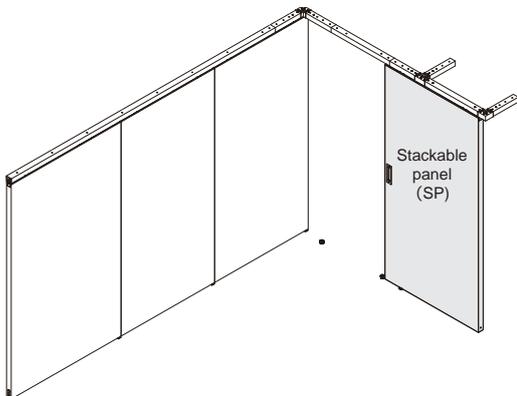
- 4 Adjust positions of recessed rollers, then tighten the bolts.



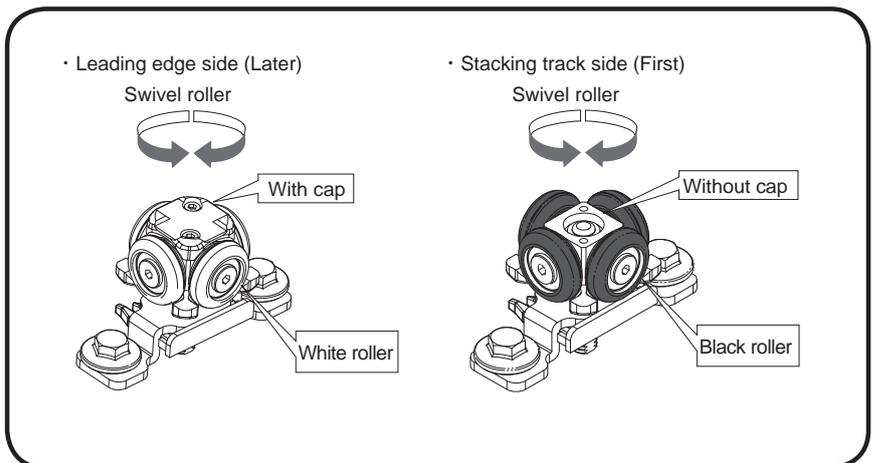
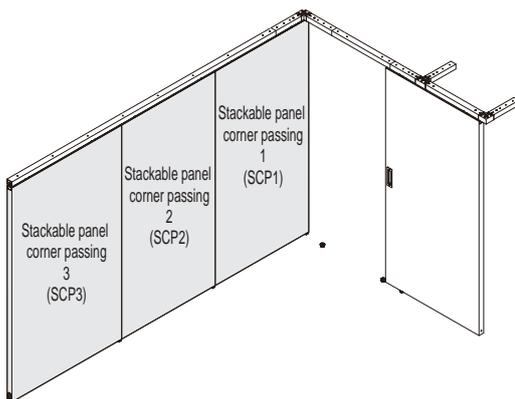
[2] About the Recessed Rollers on each Panel

Explanation with the case of three stackable panels (corner passing), hereafter.

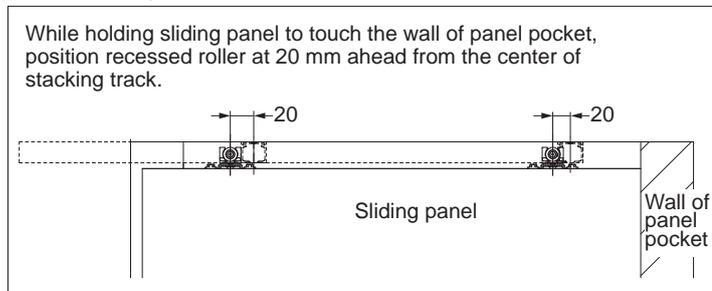
(1) Stackable panel (SP) - Black plastic bag



(2) Stackable panel (SCP1 to 3) - Orange plastic bag

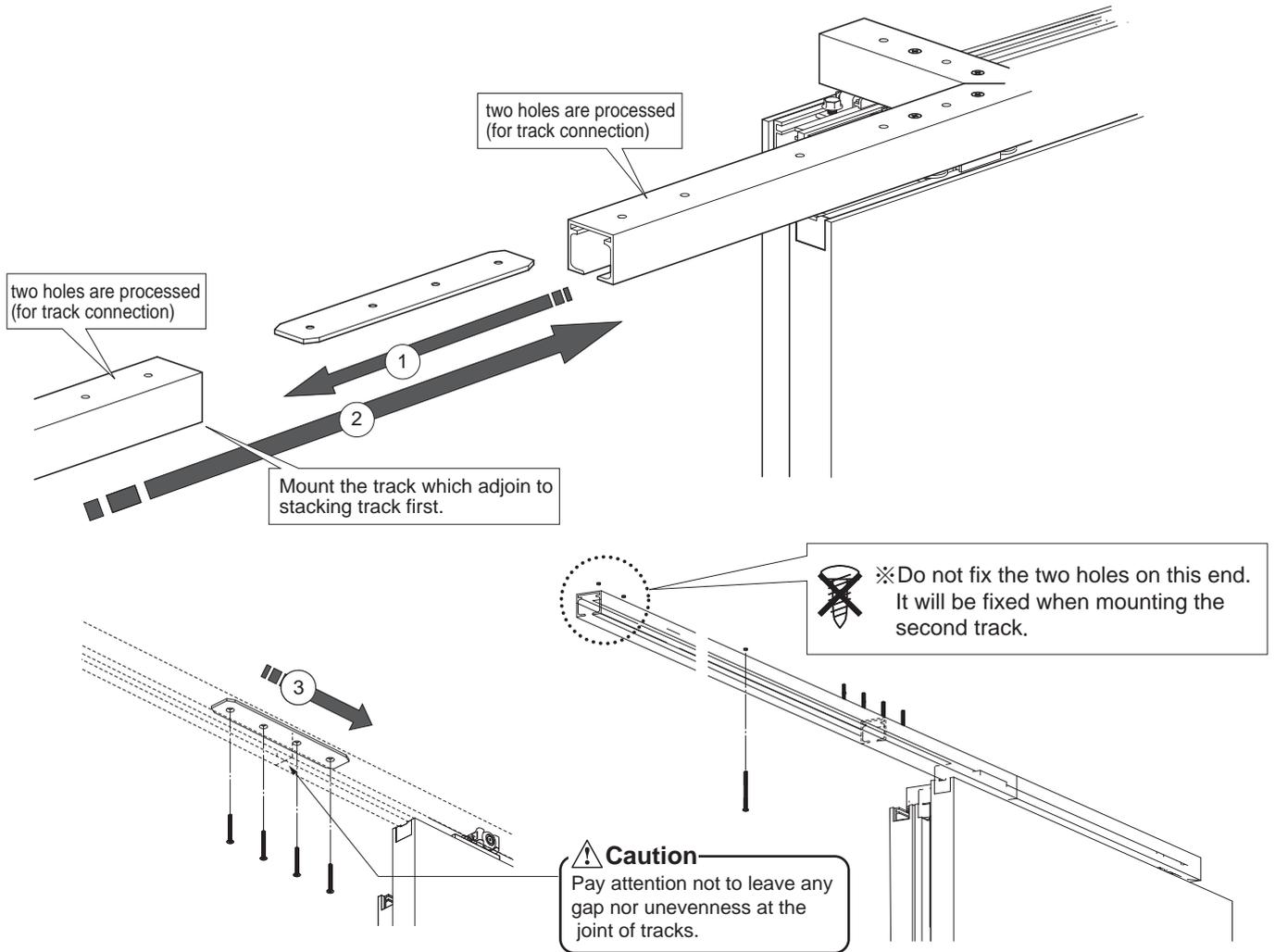


■ Positioning of recessed rollers

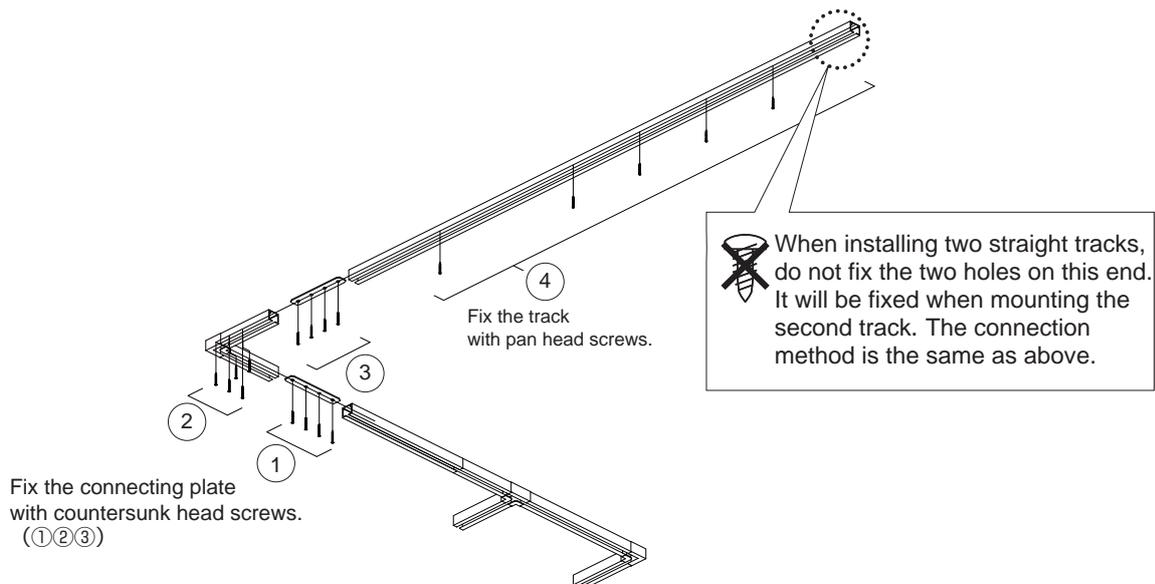


5 Mounting Upper Track

[1] Intermediate track



[2] Corner track and end track



6 Check Movement of Panels

[1] Stackable panel

- Repeat sliding out operation of each panel from stacked position for several times to confirm the movement and position of rollers.
- If improper movement is found, readjust the position of rollers.

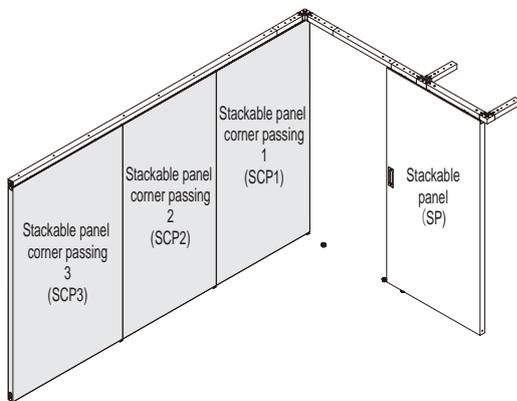
[2] Stackable panel corner passing

- Repeat sliding out operation of each panel from stacked position and corner passing of each panel for several times to confirm the movement and position of rollers.
- As for stackable panel corner passing 3 (SCP3), confirm the movement of corner passing only.
- If improper movement is found, readjust the position of rollers.

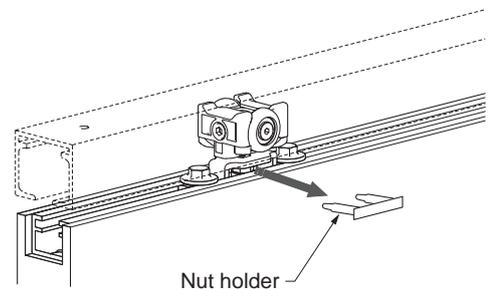
7 Panel-to-Panel Alignment (Adjusting Vertical Position)

[1] Arrange the panels

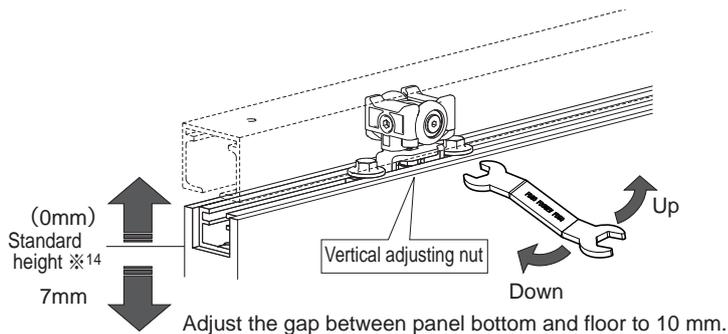
Pull out all stacked panels from stacking track as shown.



[2] Pull out nut holder.

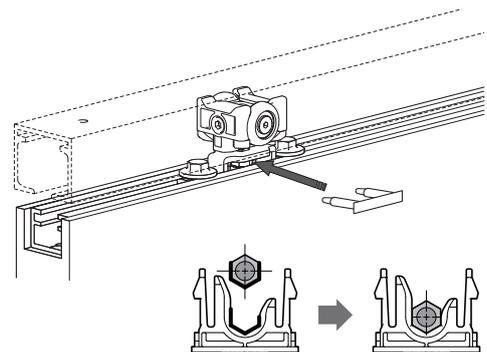


[3] Adjust vertical position.



※14 Default setting;
Gap between track and panel: 10mm

[4] Re-insert nut holder

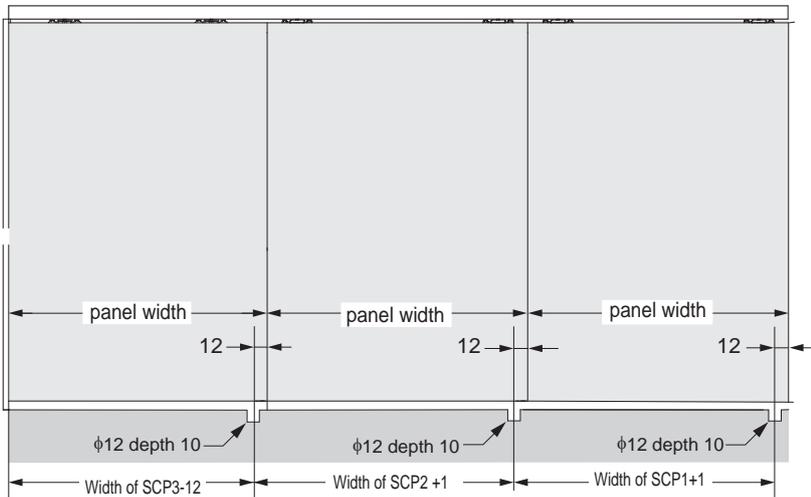
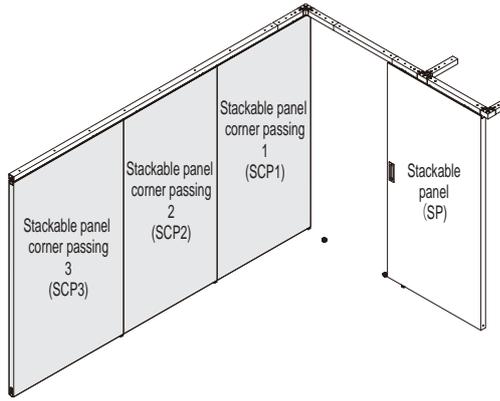


⚠ Caution

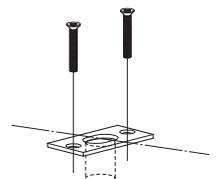
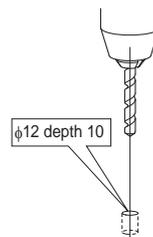
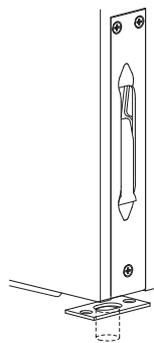
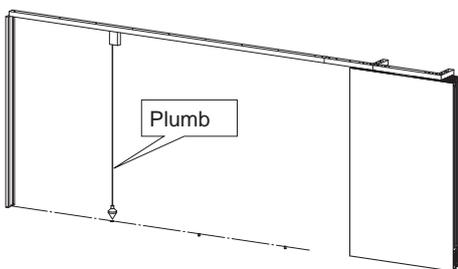
Align the nut to the nut holder before inserting so as not to damage the nut holder.

8 Mounting Strike for Flash Bolt

Mount each strike in the order of ① to ③, while positioning one by one.



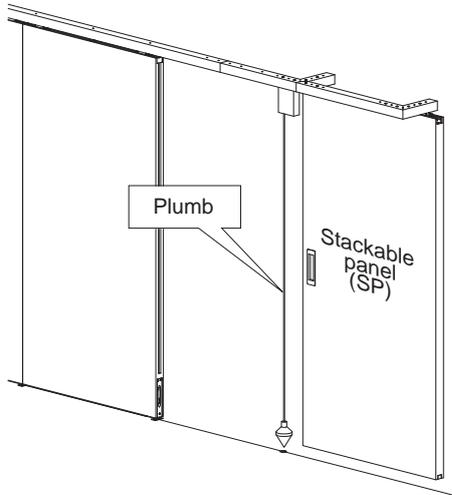
- 【1】 Position the strike just below the center of upper track.
- 【2】 Determine the position while closing the panel.
- 【3】 Drill a hole on the floor.
- 【4】 Fix the strike with provided screws.



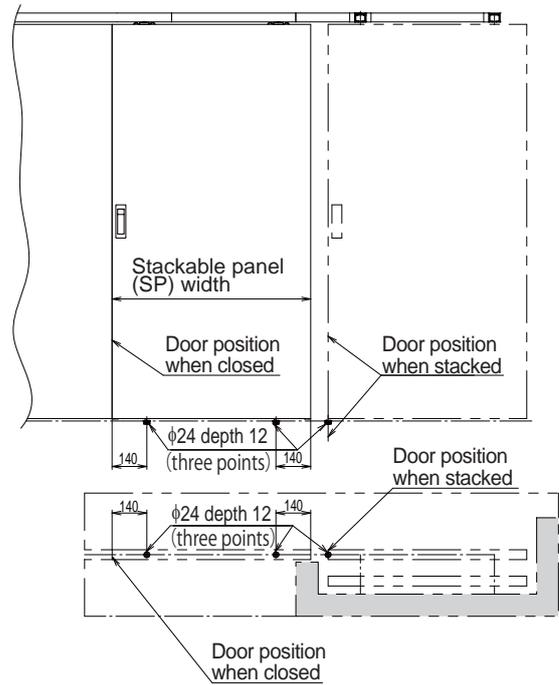
9 Mount Magnet Floor Guide Pin

[1] Positioning

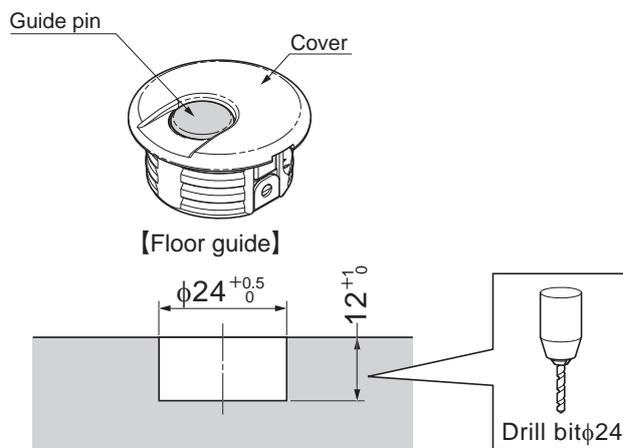
- Position the pin just below the center of upper track with plumb.



- Position



[2] Hole processing

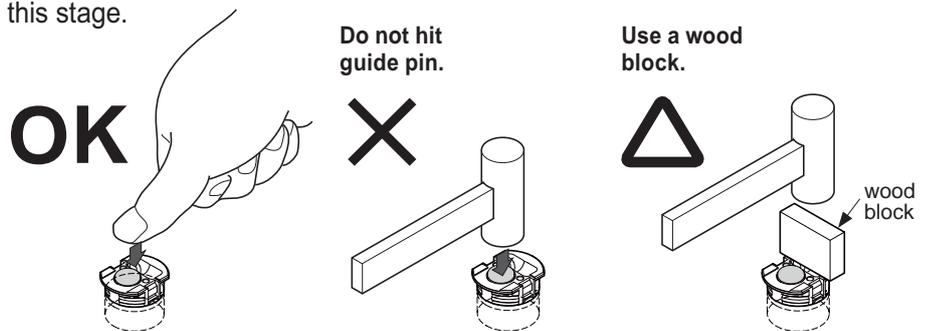


Caution
The holes should be processed correctly to vertical status. After processing the holes, remove the chips from the hole.

[3] Mounting floor guide

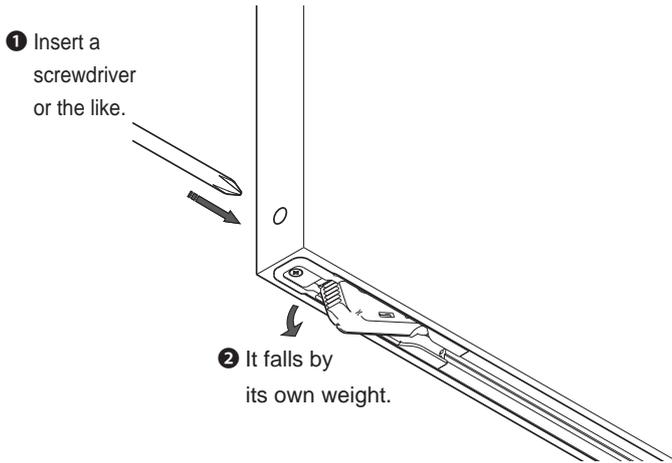
Do not fix floor guide with screws at this stage.
(It will be fixed at procedure [6])

Caution
The guide pin is likely to be damaged if hit with a hammer. If you have difficulties inserting the pin, use a wood block.

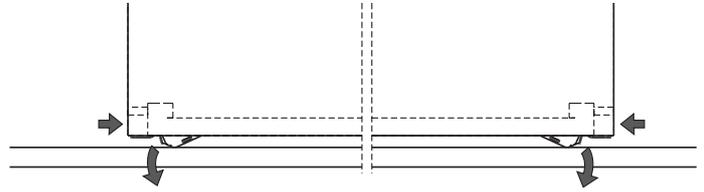


[4] Setting height of counter plate for magnet floor guide

<1> Lowering counter plate

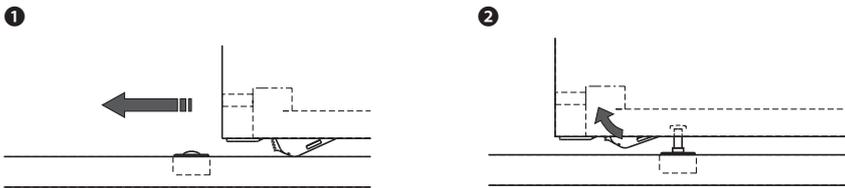


Carry out this procedure for every counter plate.



<2> Automatic setting

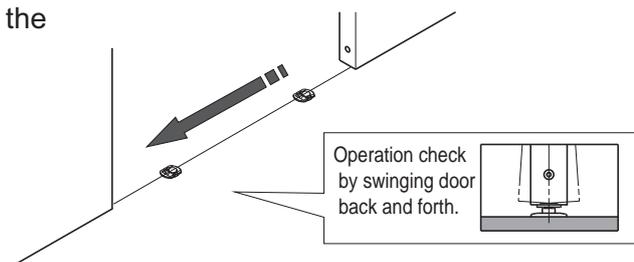
Slowly slide the door to pass the floor guide, then the height of counter plate is automatically set.



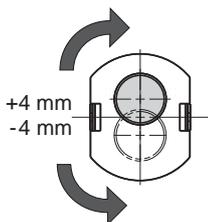
[5] Operation check

Slowly slide the door to make it passes over floor guide. Even when the door is swung back and forth a little, the guide pin should be attracted by magnet and be drawn inside of counter plate. Confirm this movement.

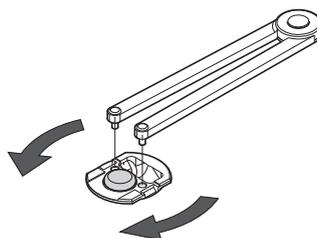
If the above movement is not confirmed, adjust the direction of floor guide.



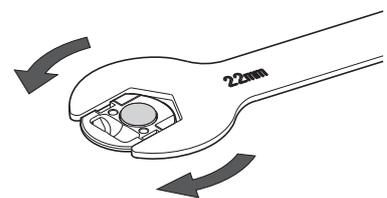
Range of adjustment



Special tool (recommended)

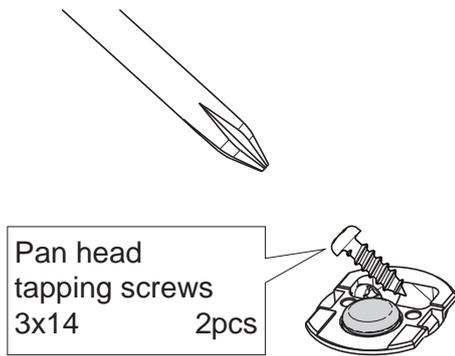


Spanner (take care not to scratch the floor.)

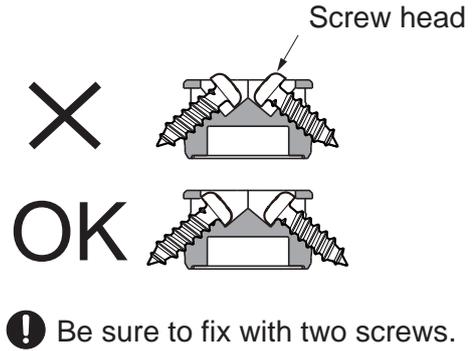


[6] Fixing floor guide

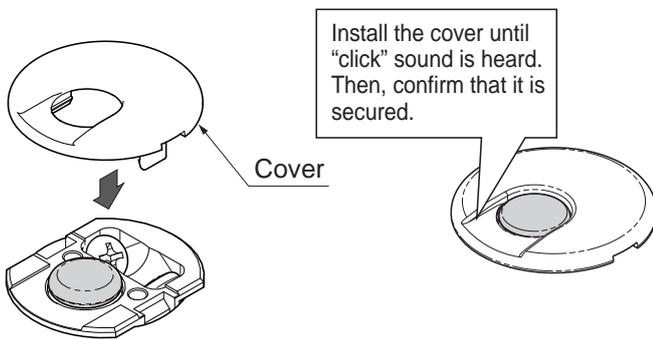
① Fix with screws.



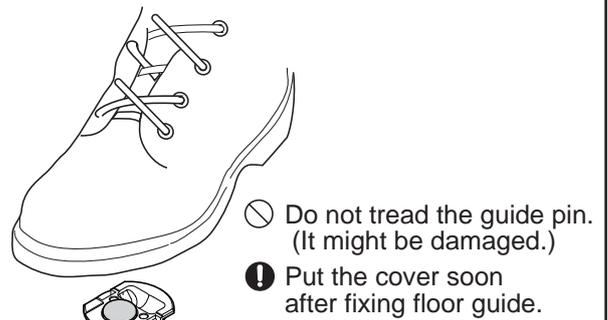
Caution



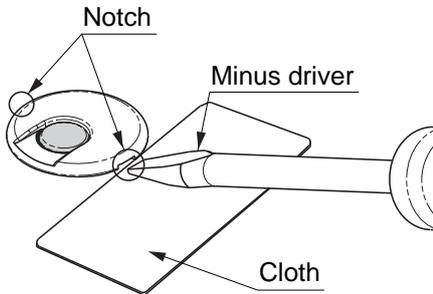
② Put the cover



Caution

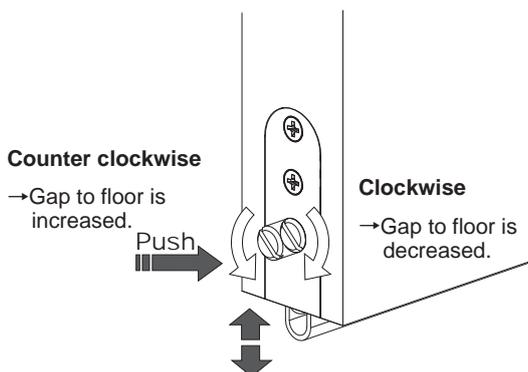


[How to remove cover]

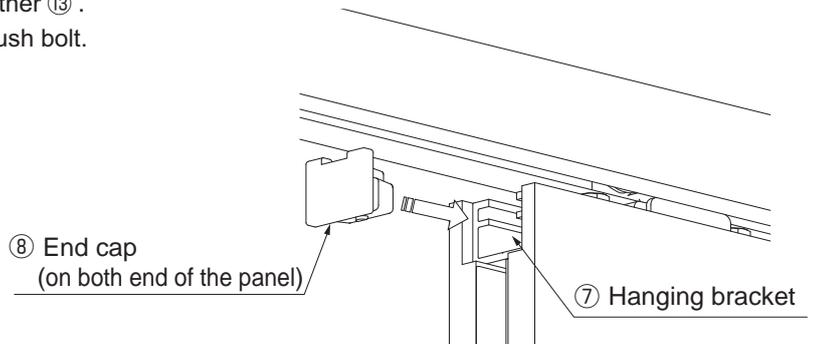


10 Adjusting Door Bottom Tightner

- Adjust the gap by turning the spindle on bottom tightner ⑬ .
- Check the gap also when the panel is locked with flush bolt.



11 Mounting End Cap



■ TROUBLESHOOTING

TROUBLE	CHECK	SOLUTION
Panel does not go in stacking track.	Check if panel's recessed roller mount pitch deviates from stacking track.	Adjust recessed roller mount pitch. If recessed roller set bolt is loosened, retighten. Refer to " 4 Assembling Recessed Rollers, Hanging Panels"
	Check if correct rollers are installed.	Recessed roller for sliding panel might be assembled wrongly to stackable panels. It is needed to replace recessed roller. Refer to " 4 Assembling Recessed Rollers, Hanging Panels".
	Check if magnet floor guide stays in stackable door.	Adjust position of recessed rollers on stackable door so that the door will be released from floor guide when it is stacked. Refer to " 4 Assembling Recessed Rollers, Hanging Panels".
Panel is caught during operation.	Check if fixing screw on upper track is loosened.	Recessed roller may contact to screw. Loosen the screw.
	Check if upper track is jointed to stacking track correctly.	The connecting part of upper track and stacking track should be connected with provided connecting plate, with no gap and no unevenness. Refer to " 6 Mounting Upper Track"
	Check if recessed roller on stackable door and sliding door stopper are installed correctly.	Recessed roller of stackable door should be caught by the stopper on straight track. If recessed roller for stackable door on stackable panel is installed wrongly, replace recessed roller. Or, readjust the position of stopper. Refer to " 4 Assembling Recessed Rollers, Hanging Panels".
Magnet floor guide does not work properly.	Check if magnet floor guide track and counter plate for magnet floor guide are installed at bottom of stackable door.	Confirm that all parts are installed. Confirm the order of door and panels. Refer to " 2 [2] Magnet floor guide track, Counter plate for magnet floor guide".
	Check clearance between stackable door and floor.	The clearance between door and floor should be 10 mm. Adjust the clearance accordingly. Refer to " 4 Assembling Recessed Rollers, Hanging Panels".
Abnormal sound when sliding panels.	Check if any dirt or aluminum chips remains in upper track.	Clean inside of upper track.
	Check rollers in the track for existence of aluminum chips.	Remove the track and remove rollers, then clean the roller.
	Check if the screw installing track to ceiling for looseness.	Retighten screw to avoid roller contact against screw.
Heavy movement of panel.	Check if panel contacts to the floor.	Confirm track fixing screws are not loosened. Readjust panel height so that clearance between panel bottom and floor becomes 10 mm.
Panels move automatically.	Check if upper track is installed horizontally.	Reinstall upper track horizontally with level gauge.
No response of floor guide pin during sliding	Check if dirt is caught at floor guide pin.	Dirt on guide pin causes poor performance of guide pin. Raise the pin by finger, then remove the dirt.
	Check if height adjustment of counter plate for magnet floor guide was done correctly.	Set height of magnet guide support, referring " 9 [4] Setting height of counter plate for magnet floor guide".
	Check if clearance between door bottom and floor is set correctly.	When the clearance between door and floor becomes out of the range (10mm ±4mm), magnet floor guide does not work properly. Adjust the clearance.
Floor guide pin functions, but pin would not caught in the guide track.	Check if lower guide pin position was adjusted in correct manner.	Determine the position of floor guide pin, referring " 9 [5] Operation check".
	Check if counter plate for magnet floor guide catches foreign matters.	Remove foreign matters.
Precautions when removing the door.	Confirm that door is free from floor guide pin.	While watching the floor guide pin not to be caught, loosen the tightening bolts on the rollers. Pull out rollers from the door.

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