

LAMP[®]

FD80-AFH HEAVY DUTY ALUMINUM FRAME SLIDING DOOR (Surface Mount Roller, Standard Sliding) Installation Manual

Part No.FD80HMP-AF

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

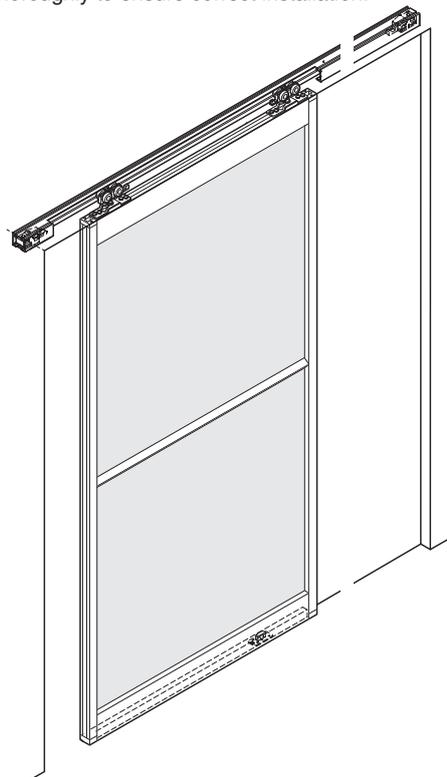
- This product is a parts set for heavy duty aluminum frame sliding door system for indoor use.

SPECIFICATIONS

	No support	With supports
Door width	Max. 900 mm	See below *
Door height	Max. 2200 mm	
Glass Thickness	5 or 6 mm	
Door weight	Max 80 kg	
Vertical adjustment	4 mm upward, 4 mm downward	

*Guide to required numbers of Support
(Under 70 kg of door with 5 mm glass)

Size of door (smaller than below)	Required supports
W1600×H2000	2
W1500×H2200	
W1300×H2500	3
W1200×H2700	
W1100×H3000	4



FOR YOUR SAFE WORK AND CORRECT INSTALLATION

Meaning of symbols

 Warning Caution	 Prohibited	 Required
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! WARNING: If these warnings are not followed, it may result in death or serious injury.

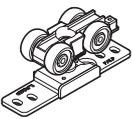
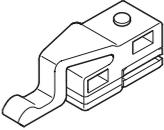
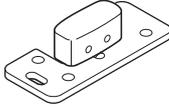
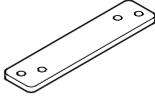
- ! This (sliding door system) should be installed by an experienced person who has correct knowledge. If the system is not installed correctly, the door will not operate smoothly, and or may cause injury.
- ! It is necessary to manufacture the frame with sufficient strength so it endures the weight of the door and impact shocks upon opening/closing the door. A frame with poor strength might result in improper and slower movement of the door. In the worst case, the door might drop down and cause injury.
- ⊘ Do not try to use this product for any other purposes other than originally intended for. Do not use the parts for applications that are out of specification.
- ⊘ Do not disassemble nor modify any parts than those described in this document.

! Caution: If these cautions are not followed, it may result in injury or damage.

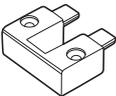
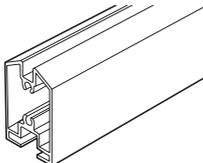
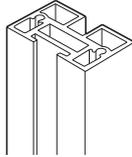
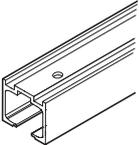
- ! Make sure to follow the designated measurements and specifications as well as horizontal and verticals angles. Make sure that the frame is not warped, since it may affect the movement of the door.
- ! If cutting any parts, make sure to remove any burr before installation. Also check the upper track for any left-over burr or scrap and remove these.
- ! This (sliding door system) 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 test the screws for slack at regular intervals (one month from first usage, half year and then one time every year is recommended).
- ! To avoid damaging of aluminum frame, carry out installation work on clean floor.
- ! Please use the tempered glass. It is recommended to use shatter-proof film on the glass.
- ! When installing "pocket door" specification, make "easy-maintenance" structure. For example, use removable panel.

COMPONENT PARTS

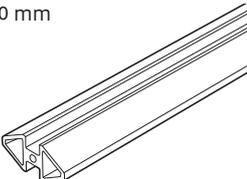
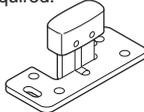
Parts set (FD80HMP-AF) per door

<p>① Upper roller (surface mount) Accessory screw : Pan head tapping screw 4 x 45 4 pcs (not needed for this set)</p>  <p style="text-align: right;">2 pcs</p>	<p>② Upper stopper</p>  <p style="text-align: right;">2 pcs</p>	<p>③ Floor guide S Accessory screw : Bind head tapping screw 4 x 16 5 pcs</p>  <p style="text-align: right;">1 pc</p>	<p>④ Plate nut Accessory screw : Hexagon socket button head screw M5 x 16 8 pcs Spring lock washer 5 8 pcs Plain washer 5 8 pcs</p>  <p style="text-align: right;">1 set</p>
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Required Parts

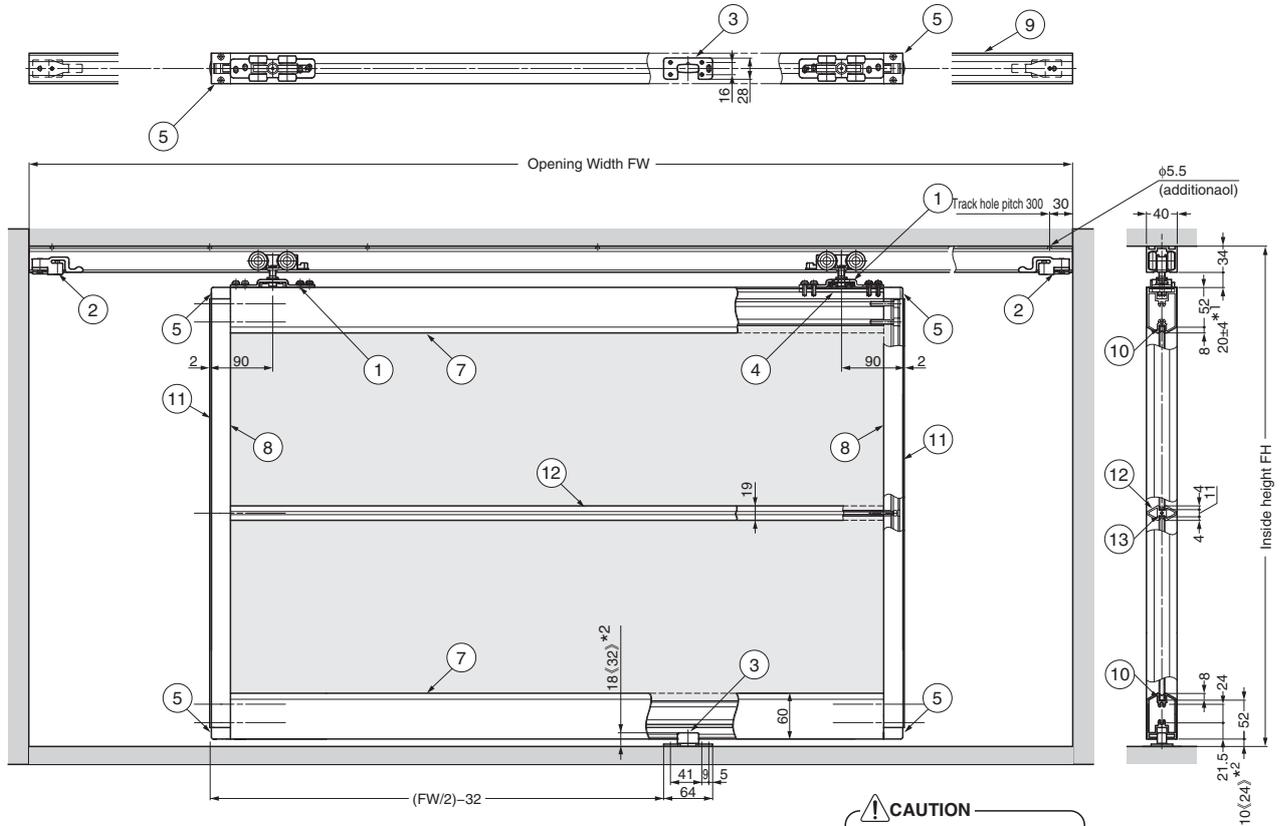
<p>⑤ Corner Part</p>  <p style="text-align: center;">4 pcs / door</p>	<p>⑥ Mount screw set</p> <ul style="list-style-type: none"> • Hexagon socket head cap screw M6 x 30 8 pcs (for Frame⑦⑧) • Hexagon socket head cap screw M4 x 30 6 pcs (for Intermediate support⑫) • Hexagon socket countersunk head screw M4 x 25 8 pcs (for Corner Part⑤) <p style="text-align: center;">1 set</p>	<p>⑦ Horizontal frame 2000 mm</p> 	<p>⑧ Vertical frame 2500 mm/3000 mm</p> 
<p>⑨ Upper track (Various sizes) Accessory screw : Pan head tapping screws 5x40</p> 	<p>⑩ Gasket for 5 mm glass: 2500 mm for 6 mm glass: 3000 mm</p> 	<p>⑪ Edge cover 2500 mm/3000 mm</p> 	

Optional parts

<p>⑫ Intermediate support Item No. : AF-25-W03 2000 mm</p> 	<p>⑬ Gasket for Intermediate support Item No. : for 5 mm glass ... AF-25-P03 for 6 mm glass ... AF-25-P16 2500 mm</p> 	<p>⑭ Handle Item No. : WN799Z160E101 It is adhered after drilling two 7 mm dia. holes.</p> 	<p>⑮ Floor guide L Item No. : FD50-BG32 Accessory screw : Bind head tapping screw 4x16 5 pcs This is used when larger space below the door is required.</p> 
<p>⑯ Spanner Item No. : FD30-FSP</p>  <p style="text-align: center;">Nominal designation 10, 12</p>			

INSTALLATION DRAWING (EXAMPLE)

Refer to page 4 about the dimensions of the doors and glass panels.



CAUTION
 When door jumb is not provided, apply Two-way soft closer.

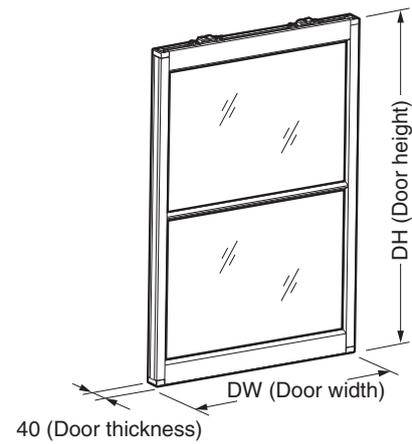
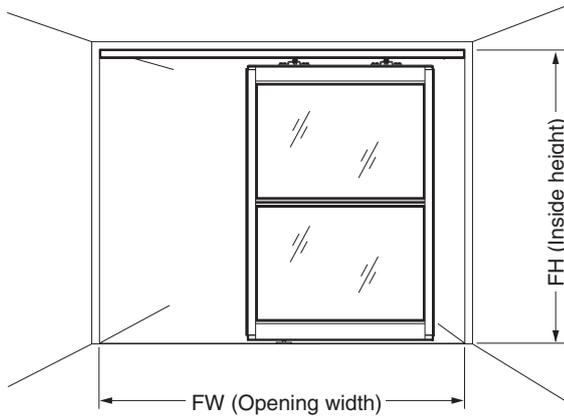
*1 Height adjustable range : -1 mm to +4 mm.

*2 Dimension 《 》 : when floor guide L15(optional) is used.

DIMENSIONS OF DOORS

(Cut off after the decimal point for the divided dimensions.)

Drawing of installed door



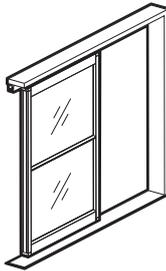
$$DH \text{ (Door height)} = FH - 64$$

$$DW \text{ (Door width)} = \frac{FW - 4}{2} + 20$$

$$GH \text{ (Glass height)} = \frac{DH - 104 - (\text{Number of Intermediate support} \otimes \times 11)}{\text{Number of glass panels}}$$

$$GW \text{ (Glass width)} = DW - 34$$

Example 1



Ex: 1 door on single track

Size of each door when Opening width 1800 mm and Opening height 2400 mm

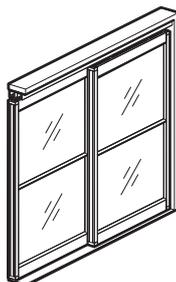
$$DH = 2400 - 64$$

$$= 2336 \text{ mm}$$

$$DW = \frac{1800 - 4}{2} + 20$$

$$= 918 \text{ mm}$$

Example 2



Ex: 2 door on double track

Size of each door when Opening width 1800 mm and Opening height 2400 mm

$$DH = 2400 - 64$$

$$= 2336 \text{ mm}$$

$$DW = \frac{1800 - 4}{2} + 20$$

$$= 918 \text{ mm}$$

1 Cutting and hole processing of standard length parts

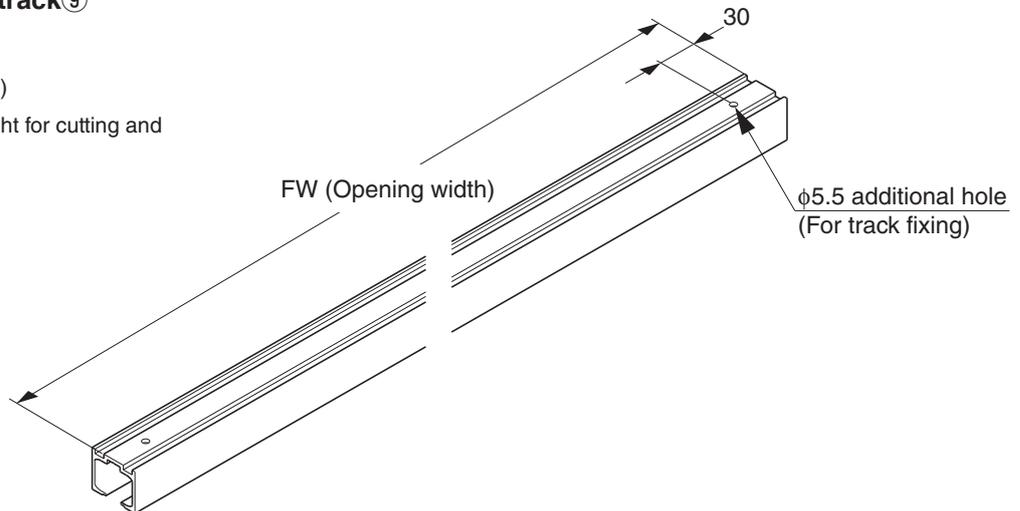
⚠ Caution

- Cut carefully so the cut edge is square to avoid bias and skewing.
- Make sure to remove any burr. Also check the upper track for any left-over burr or scrap and remove these.

1-1 Processing of Upper track⑨

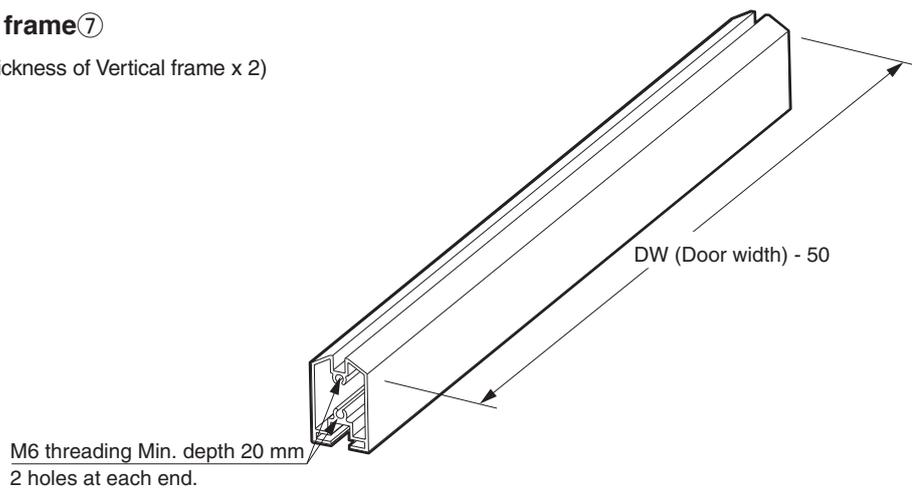
Length = FW (Opening width)

Refer to the figure on the right for cutting and drilling holes.



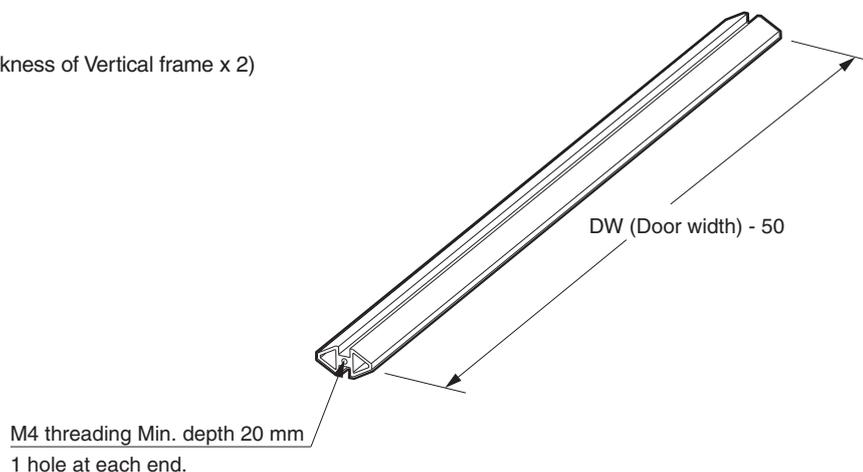
1-2 Processing of Horizontal frame⑦

Length = DW(Door width) - 50(Thickness of Vertical frame x 2)

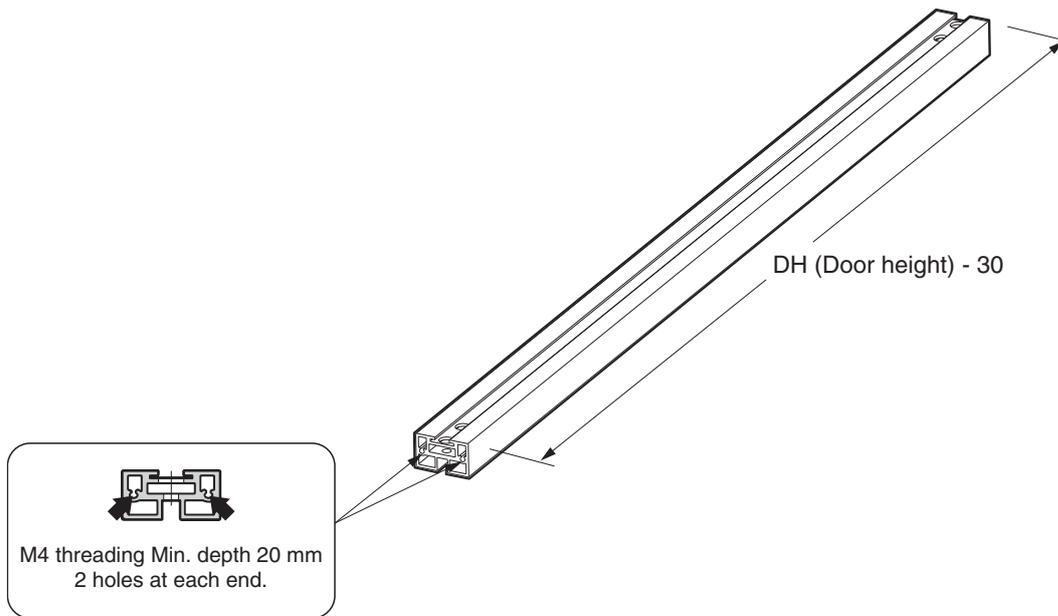


1-3 Cutting and hole processing of Intermediate support⑫, when used

Length = DW(Door width) - 50(Thickness of Vertical frame x 2)



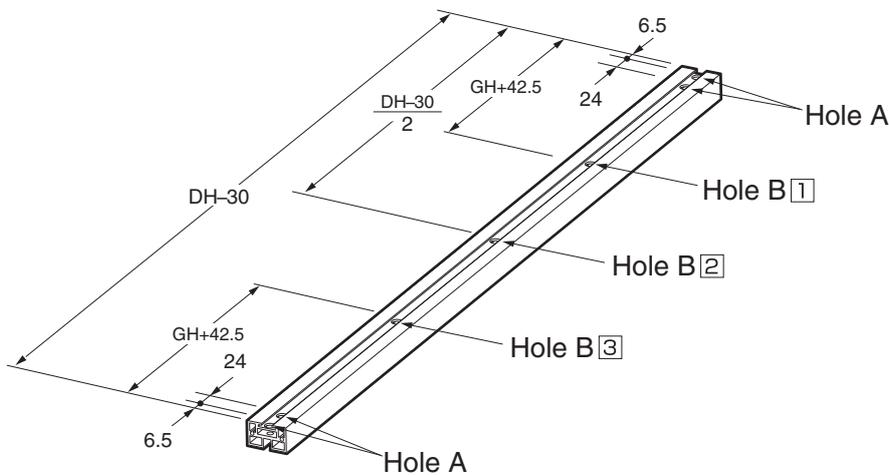
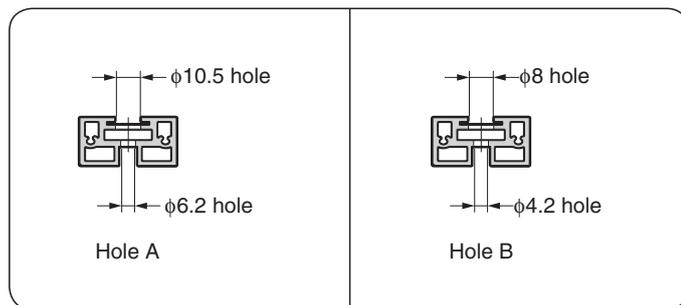
1-4 Processing of Vertical frame[®] - Step 1



1-5 Processing of Vertical frame[®] - Step 2

Drill holes according to the quantity of Intermediate support.

Hole A only if there is no Intermediate support
 Hole A + B² for 1 Intermediate support
 Hole A + B¹, B³ for 2 Intermediate supports
 Hole A + B¹, B², B³ for 3 Intermediate supports

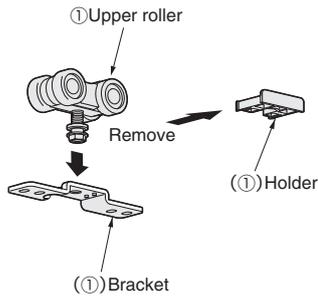


DH: Door height
 GH: Glass height

2 Assembling parts

2-1 Disassembling Upper rollers①

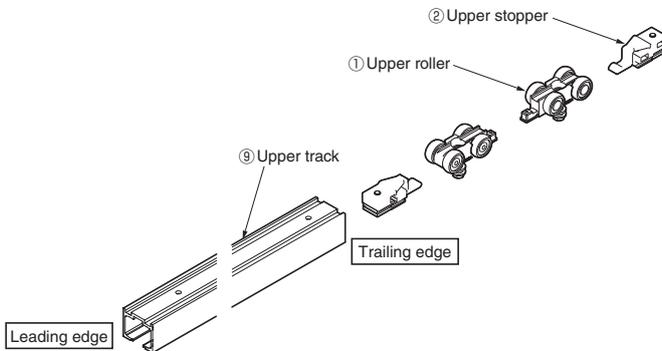
Remove Upper roller bracket and holder



2-2 Assembling parts

(1) Insert into the track two Upper roller① and Upper stopper② in the order shown in below figure.

(2) Tape around rollers and upper track to prevent drop of inserted parts.

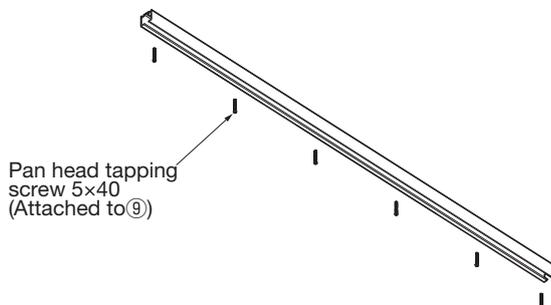


3 Installing Upper track⑨ and Floor guide S③

3-1 Installing Upper track⑨

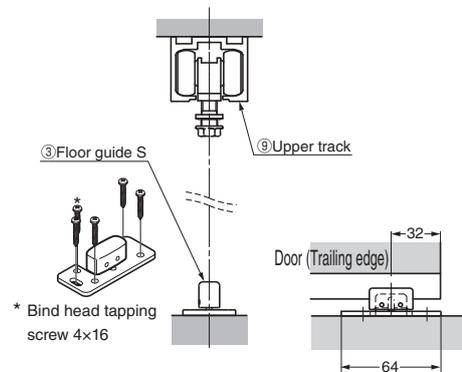
Confirm that leading edge of the upper track is in same direction as the leading edge of the door.

Fix the upper track with attached screws 5×40.



3-2 Installing Floor guide S③

Install the Floor guide so that it stays under the door when it is opened or closed.

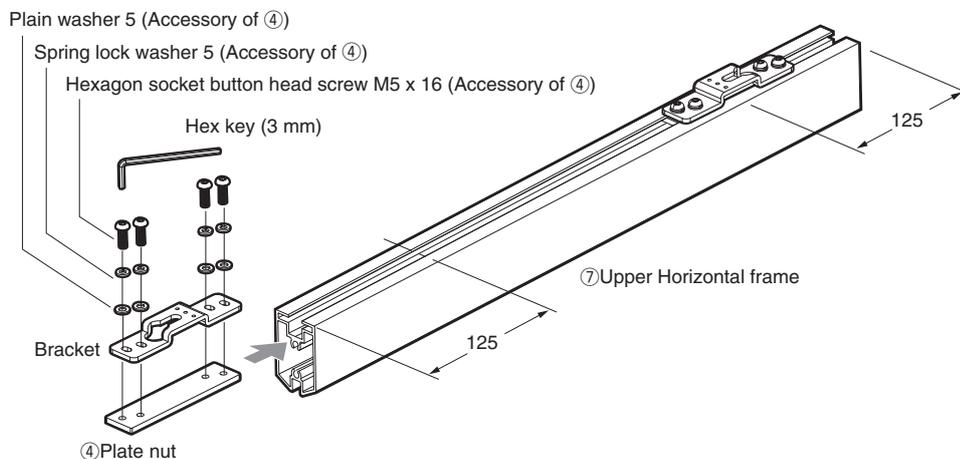


4 Assembling door

⚠ Caution

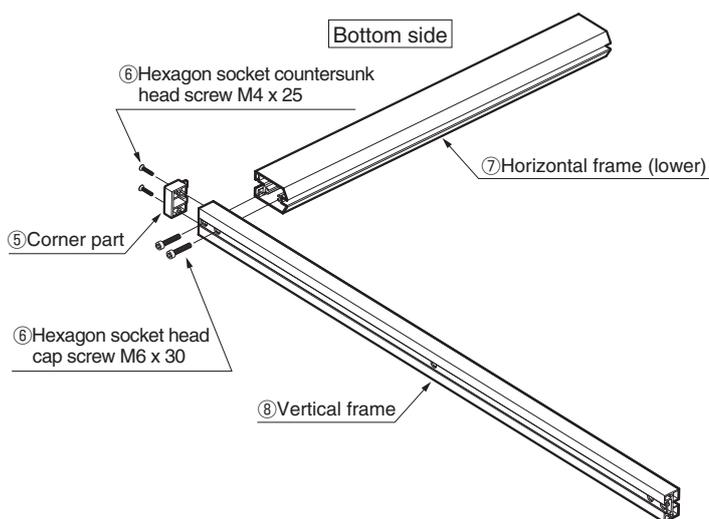
- Coat screw threads with anti-loose material such as "thread locking".
- During door installation, handle the glass carefully to prevent injury.

4-1 Preparation of Horizontal frame⑦ - Upper

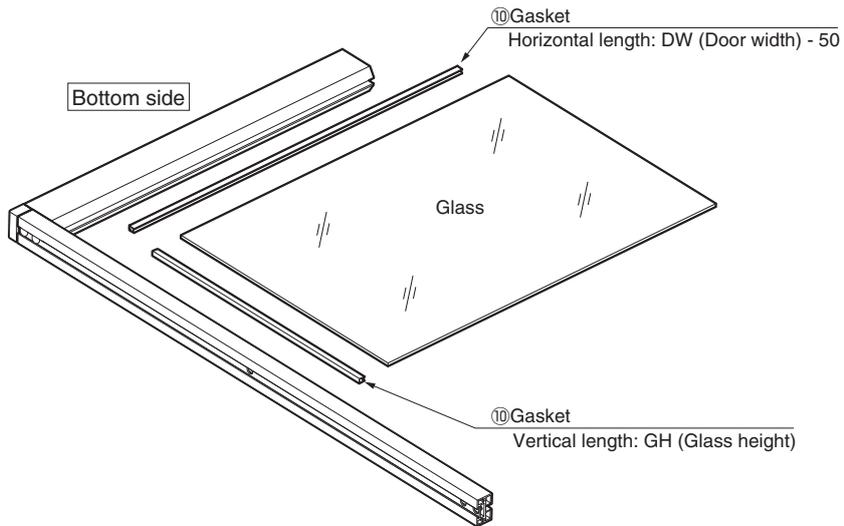


Set the Bracket to upper Horizontal frame ⑦, using Plate nut ④.
The distance from the edge and Bracket center should be 125 mm.

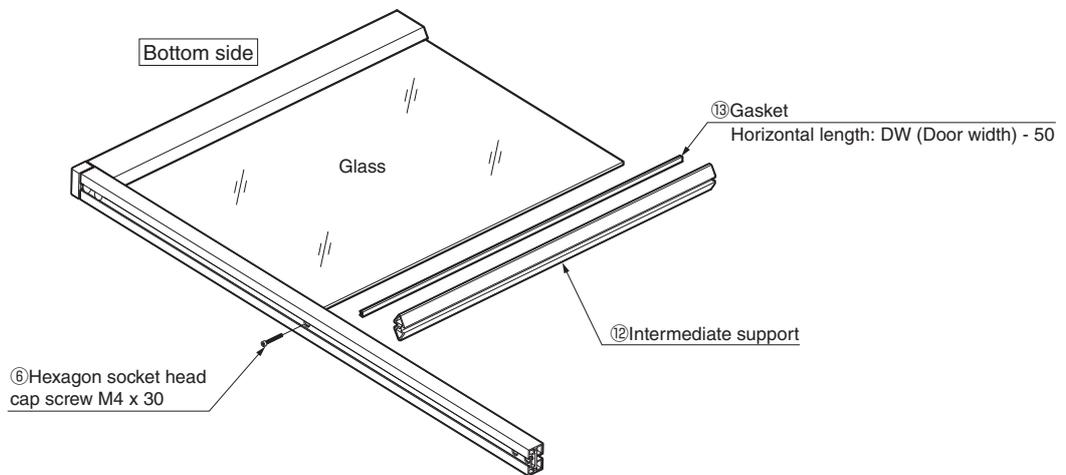
4-2 Assembly of Horizontal frame⑦ (lower) and Vertical frame⑧



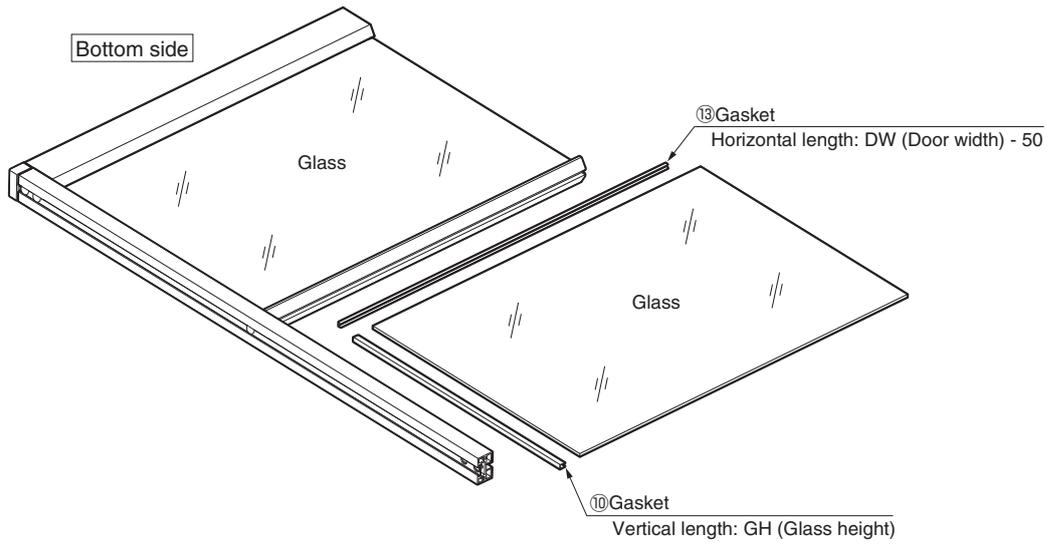
4-3 Insertion of glass - Step 1



4-4 Assembly of Intermediate support ⑫, when used

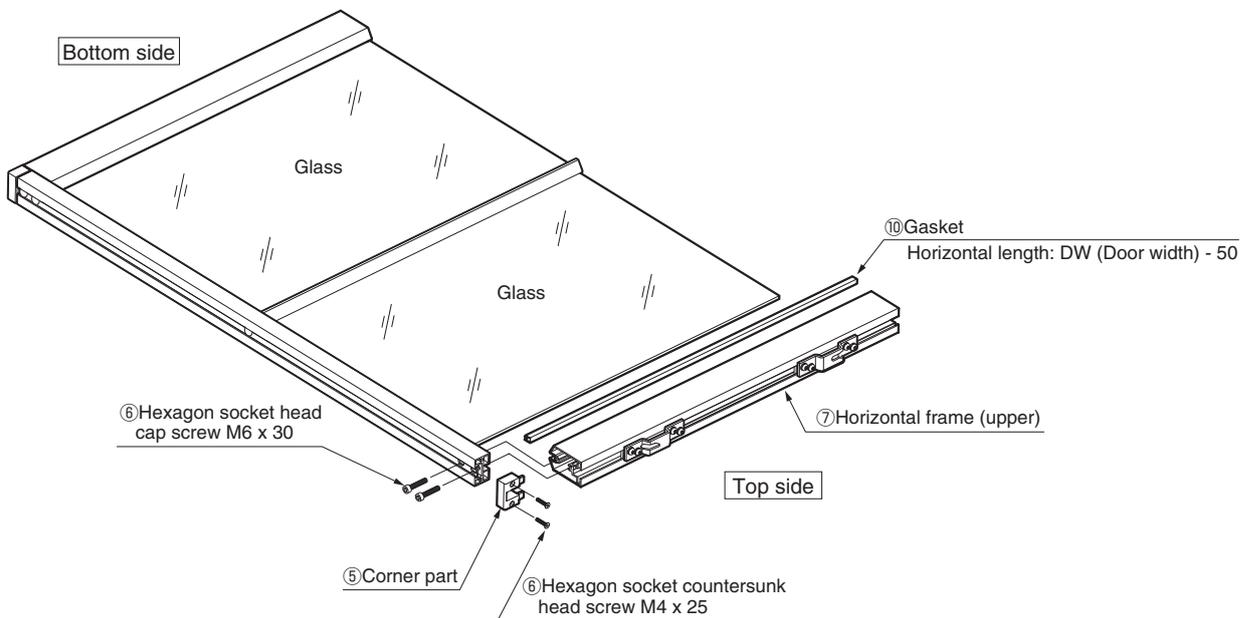


4-5 Insertion of glass - Step 2, when Intermediate support is used

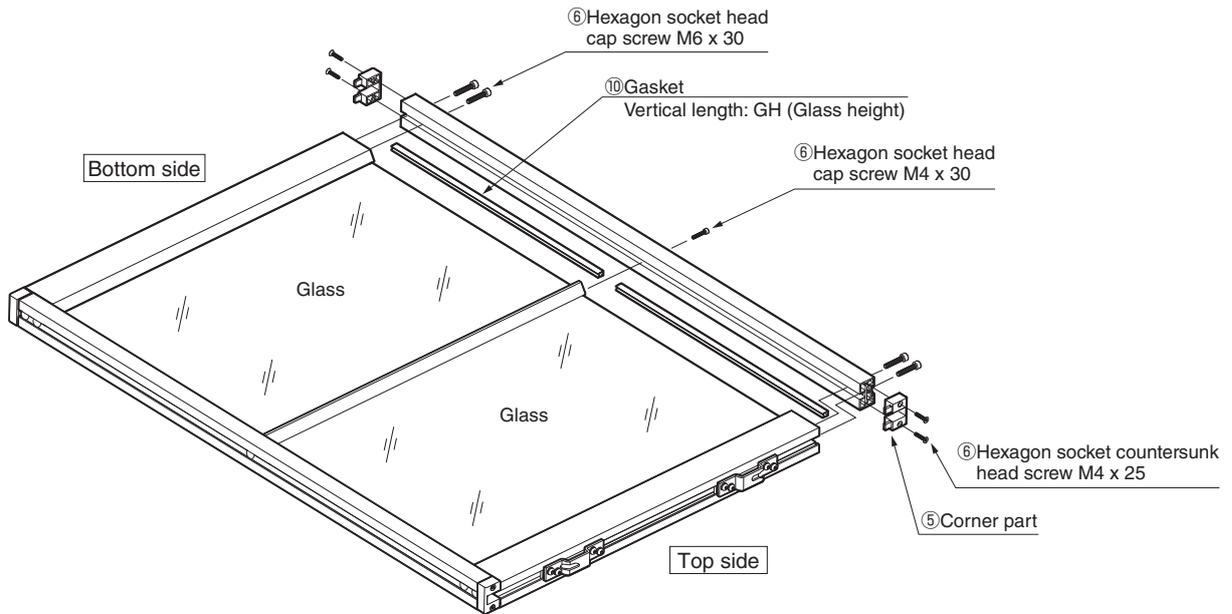


When using more than two Intermediate supports, repeat procedures 4-4 to 4-5.

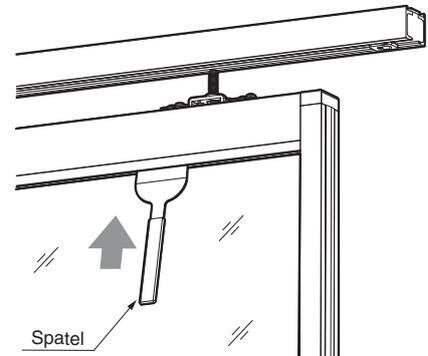
4-6 Assembly of Horizontal frame 7 (upper)



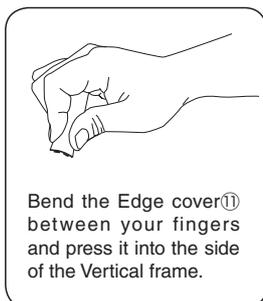
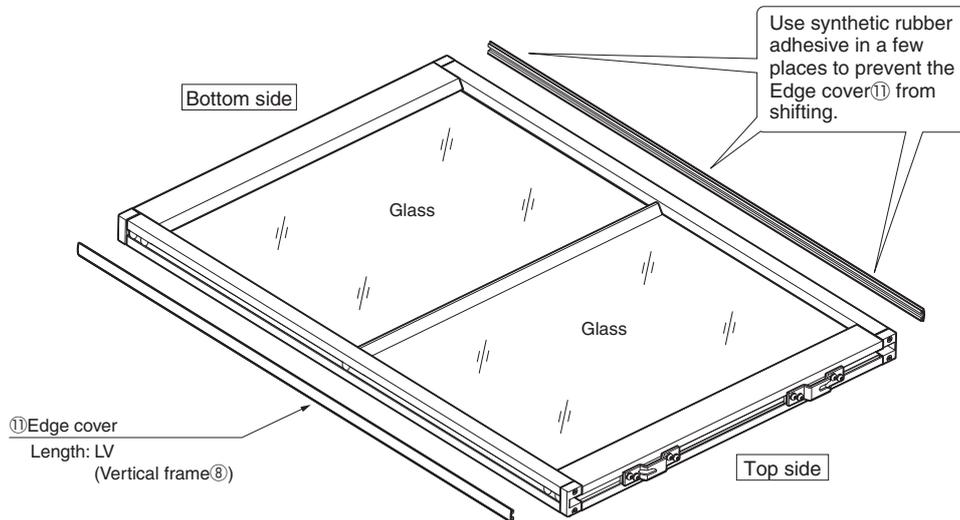
4-7 Assembly of Vertical frame^⑧



You may find the Gasket coming off from the frame.
In such case, use a Spatel or something to push it in and be careful not to scratch the glass.



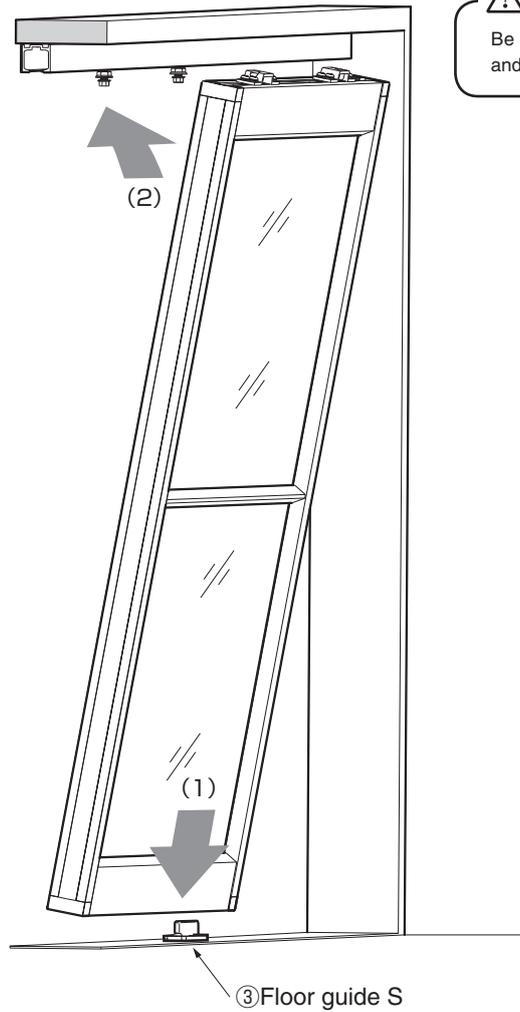
4-8 Assembly of Edge covers^⑪



⚠ Caution

Before attaching the Edge covers, make sure the frame is not biased or skewed, and that all bolts are tight.
Make sure the parts are firmly assembled and there is no warping or skewing.

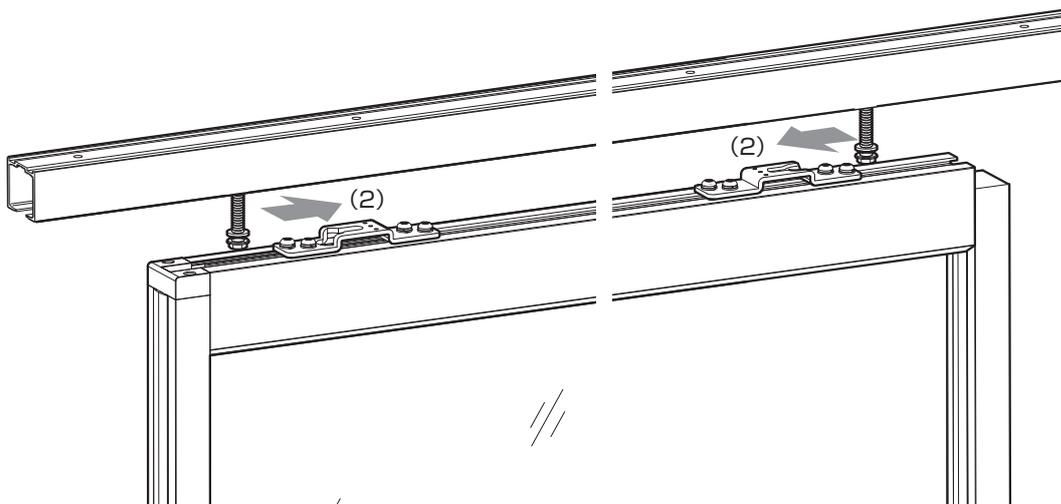
5 Hanging the door



⚠ Caution

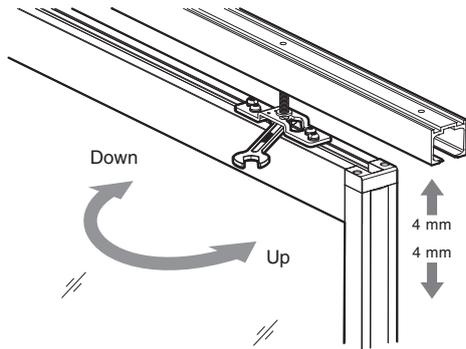
Be sure to have someone with knowledge and experience assist you.

- (1) Put a support below the door to be hanged. Tilt the door as shown in the figure, and set the Floor guide S③ to the groove of the bottom Horizontal frame⑦.
- (2) Push the door and set the hanger bolts as shown in the figure below.

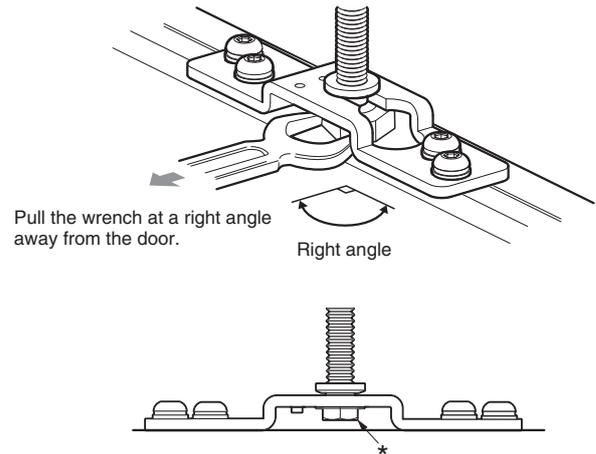


6 Adjustment of door height

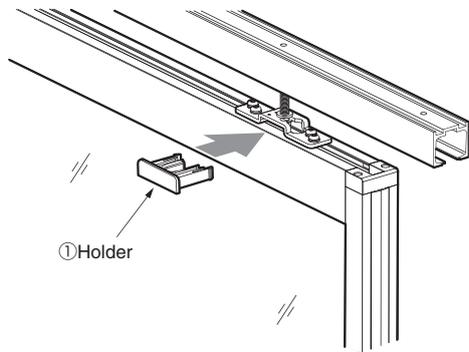
- (1) Remove the support under the door.
- (2) Turn the bolt and adjust the height of the door.
The height adjustment range is +4 mm to -4 mm from factory setting (totally 8 mm).
(Tool: nominal 10 wrench, max. 6 mm thick)



- (3) After adjusting the door, pull the wrench at a right angle away from the door.
Make sure the width across flats of the bolt head is as shown in the figure*.

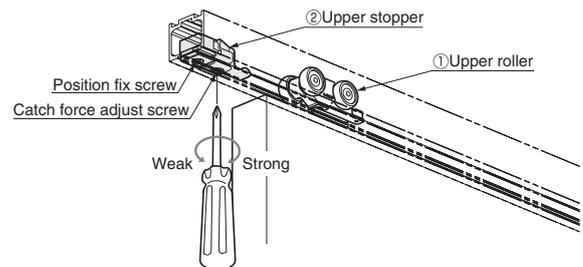


- (4) Insert the Holder as shown below.



7 Fixing Upper stopper and adjustment

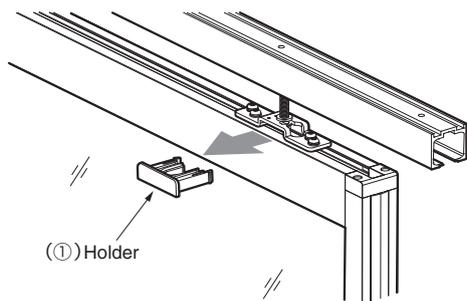
- (1) Fix Upper stopper② with the door fully closed.
Set the position of upper stopper such that upper roller in the track contacts with upper stopper, tighten position-set screw with Phillips head driver#2.
- (2) Using Phillips head driver#2, adjust door catch force by the adjust screw.
- (3) Fix another stopper and adjust it at opposite end in the similar manner.



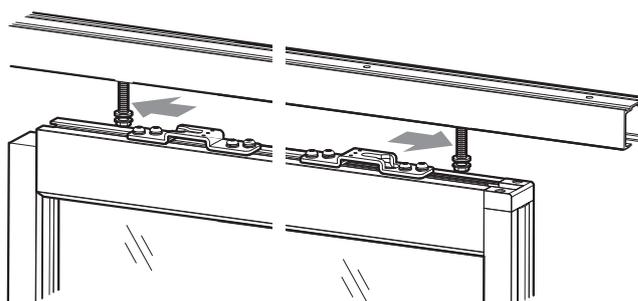
HOW TO REMOVE DOOR

(1) Put a support under the door.

(2) Pull out the Holder.



(3) Pull out the Upper roller from the Bracket.



(4) Remove the door from the Bottom guide.

Periodical Inspection	<ul style="list-style-type: none"> • Clean inside of track. • Check upper space and lower space of the door. If necessary, correct the space.
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TROUBLESHOOTING

Trouble	Checkpoint	Solution
Abnormal noise during operation	Check if door touches other parts.	Provide necessary space between door and adjacent objects.
	Check track rollers for aluminum dust.	Remove the track and pull out the roller. Then, clean the roller.
	Check for loose screws retaining the upper track.	Tighten the screw.
Heavy door operation	Check if door bottom contacts with floor.	Confirm that track fixing screws are not loosened. Adjust door height 6 – 13 mm between door bottom and floor.
	Check if door touches adjacent parts.	Correct door position to avoid contact to other objects. Adjust position of floor guide or stopper.
	Check if door is warped.	Use a door without warp.
Door does not move.	Check track retaining screws for looseness.	Roller touches with screw. Retighten screws to free the roller.
Door starts to move.	Check if the upper track is set horizontally.	Using a level gauge, reset upper track horizontally.

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