

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

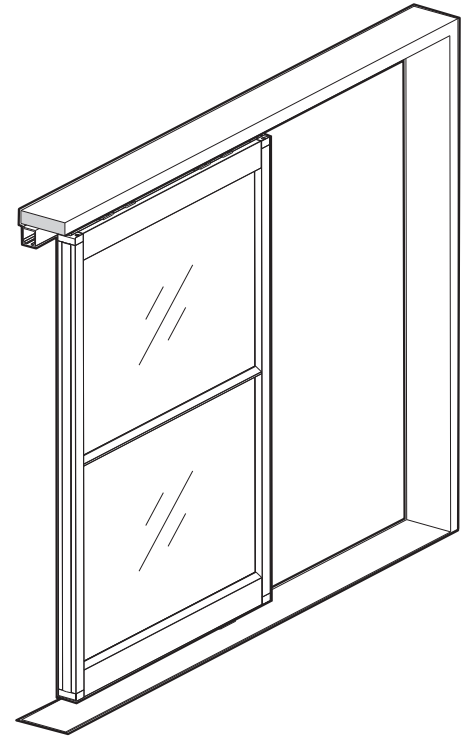
## ABOUT THE PRODUCT

- This is a parts set for a heavy duty aluminum frame sliding door system for residential & commercial use.
- Recessed mounted roller allows a small gap between the track and the door.

## SPECIFICATIONS

Door height ※ 1	Max.2200 mm
Door width ※ 1	784- 900 mm
Glass thickness	5 mm or 6 mm
Max. Door weight	70 kg / door
Vertical adjustment	1 mm upward, 4 mm downward

※ 1 The door size can be expanded by using intermed supports. See page 3 for the details.



## FOR YOUR SAFETY AND CORRECT INSTALLATION

### Meaning of symbols

 <b>Warning Caution</b>	 <b>Prohibited</b>	 <b>Required</b>
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### **WARNING: If not followed, death or serious injury may result.**

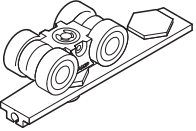
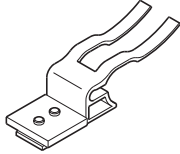
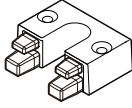
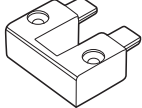
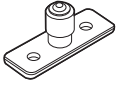
- ❗ This product should be installed by a qualified person in accordance with this manual. If it is not installed correctly, the door may fall and cause injury.
- ❗ Provide a frame that can withstand the weight and impact of opening and closing the door. Be sure to use the specified screws and tighten them securely. If the mounting strength is insufficient, the door may fall and cause injury.
- ⊘ Do not use this product for any other purpose, or with doors that are outside the specifications of this manual.
- ⊘ Do not disassemble or modify any parts other than those described in this document.

### **Caution: If not followed injury or damage may result.**

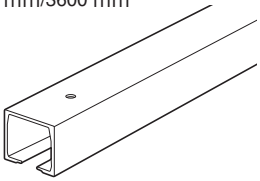
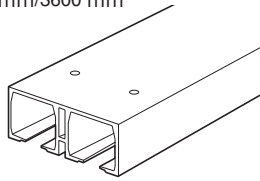
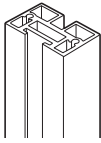
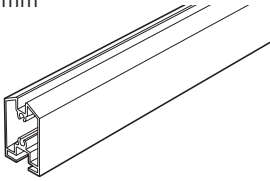


- ❗ Use tempered glass. Using shatter-proof film is recommended.
- ❗ Follow the specified dimensions, specifications, and alignment of the door and frame. Warping, tilting or twisting of the frame or door may cause failure.
- ❗ If cutting any parts, make sure to remove any burrs before installation. Also check the upper track for any left-over burrs or scraps and remove these.
- ❗ This product is a part for architectural fittings. After installation, please check the function and safety of the final product. Please inform the end user how to use the product safely.
- ❗ 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

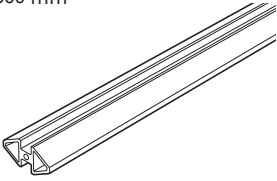
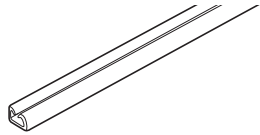

## Parts (for 1 door)

<p>① Hanging roller ..... 2 pcs Accessory: Spanner 22 mm Hexagon socket screw key 3 mm</p> 	<p>② Stopper ..... 2 pcs Accessory: Hexagon socket screw key 3 mm</p> 	<p>③ End cap ..... 2 pcs</p> 	<p>④ Corner part ..... 2 pcs Accessory: Hexagon socket screw key 3 mm</p> 
<p>⑤ Guide roller ..... 1 pc Accessory screw: Pan head tapping screws 4.5 x 16</p> 	<p>⑥ Screw set</p> <ul style="list-style-type: none"> <li>Hexagon socket head cap screw M6 x 30 ..... 8 pcs (for Frame ⑨ ⑩)</li> <li>Hexagon socket head cap screw M4 x 30 ..... 6 pcs (for Intermediate support ⑬)</li> <li>Hexagon socket countersunk head screw M4 x 25 ..... 8 pcs (for Corner Part ④)</li> </ul>		

## Standard length parts

<p>⑦ Standard track 2000 mm/3600 mm</p> 	<p>⑧ Standard double track 2000 mm/3600 mm</p> 	<p>⑨ Vertical frame 2500 mm/3000 mm</p> 	<p>⑩ Horizontal frame 2000 mm</p> 
<p>⑪ Gasket for 5 mm glass: 2500 mm for 6 mm glass: 3000 mm</p> 	<p>⑫ Edge cover 2500 mm/3000 mm</p> 		

## Optional parts

<p>⑬ Intermediate support 2000 mm</p> 	<p>⑭ Gasket for Intermediate support for 5 mm glass: 2500 mm for 6 mm glass: 3000 mm</p> 	<p>⑮ Floor guide track 1220 mm, 1520 mm, 1820 mm, 2440 mm, 3000 mm, 4000 mm *No fixing hole is provided for the guide tracks longer than or equal to 3000 mm.</p> 
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# TOOLS REQUIRED FOR INSTALLATION

- Screws to install the track ⑦ ⑧ Pan head tapping screws 5 x 40 ..... as many as needed
- Screws to fix guide roller ⑤ Pan head screws 4 x 20 ..... 2 pcs (These screws are needed when Floor track ⑮ is used.)

# INSTALLATION DRAWING (EXAMPLE)

## Specifications

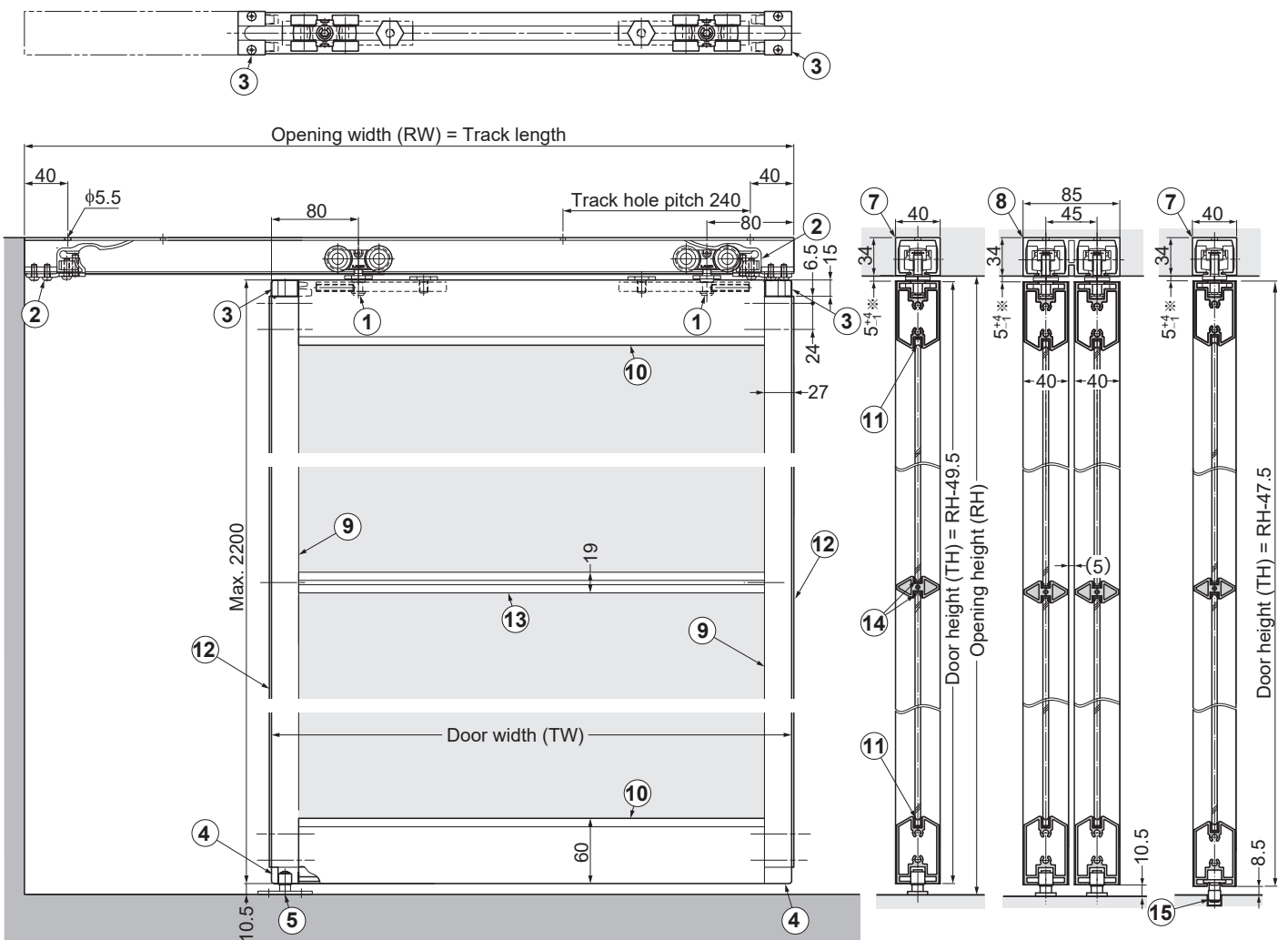
※<sup>1</sup> Guide to required numbers of support  
(Under 70 kg of door with 5 mm glass)

	Max. Door width	Max. Door height	Glass thickness	Max. Door weight (1 door)
Without Intermediate support ⑬	900 mm	2200 mm	5 mm or 6 mm	70 kg
With Intermediate support ⑬	1500 mm	2500 mm		

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

### ⚠ Caution

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

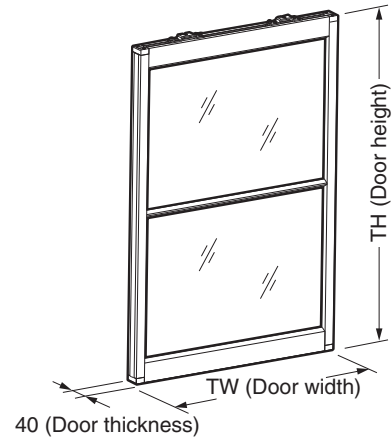
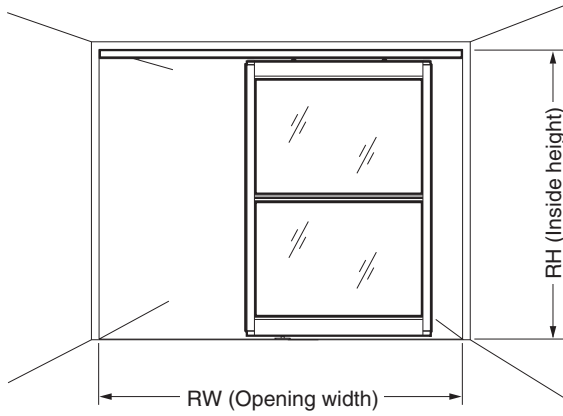


※<sup>2</sup> Height adjustment range: -1 mm to +4 mm

# DIMENSIONS OF DOORS

(Round off the decimal point for the divided dimensions.)

## ■ Drawing of installed door



Guide roller model : TH (Door height) = RH-49.5  
 Floor guide track model : TH (Door height) = RH-47.5

$$\text{Door width TW} = \frac{(\text{RW}-4) + (\text{number of overlaps} \times 25)}{\text{Number of doors}}$$

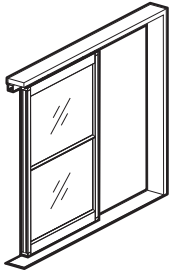
$$\text{Glass height GH} = \frac{\text{TH}-104 - (\text{Number of Intermediate support} \times 11)}{\text{Number of glass panels}}$$

$$\text{Glass width GW} = \text{TW}-34$$

### Example 1

Ex: 1 door on single track

Size of the door when Opening width 1800 mm and Opening height 2100 mm



Guide roller model

$$\begin{aligned} \text{TH} &= 2100 - 49.5 \\ &= 2050.5 \\ &\approx 2050 \text{ mm} \end{aligned}$$

$$\begin{aligned} \text{TW} &= \frac{(1800-4) + (1 \times 25)}{2 \times 3} \\ &= 910.5 \\ &\approx 910 \text{ mm} \end{aligned}$$

Floor guide track model

$$\begin{aligned} \text{TH} &= 2100 - 47.5 \\ &= 2052.5 \\ &\approx 2052 \text{ mm} \end{aligned}$$

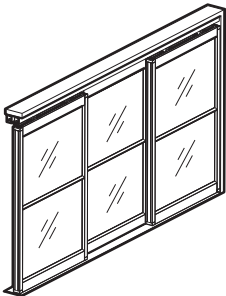
$$\begin{aligned} \text{TW} &= \frac{(1800-4) + (0 \times 25)}{2 \times 3} \\ &= 898 \text{ mm} \end{aligned}$$

※<sup>3</sup> Divided with two, since side wall is counted as a door.

### Example 2

Ex: 3 doors on double track

Size of each door when Opening width 2500 mm and Opening height 2100 mm



Guide roller model

$$\begin{aligned} \text{TH} &= 2100 - 49.5 \\ &= 2050.5 \\ &\approx 2050 \text{ mm} \end{aligned}$$

$$\begin{aligned} \text{TW} &= \frac{(2500-4) + (2 \times 25)}{3} \\ &= 848.666\dots \\ &\approx 848 \text{ mm} \end{aligned}$$

Floor guide track model

$$\begin{aligned} \text{TH} &= 2100 - 47.5 \\ &= 2052.5 \\ &\approx 2052 \text{ mm} \end{aligned}$$

## 1 Cutting and Hole Drilling of Standard Length Parts

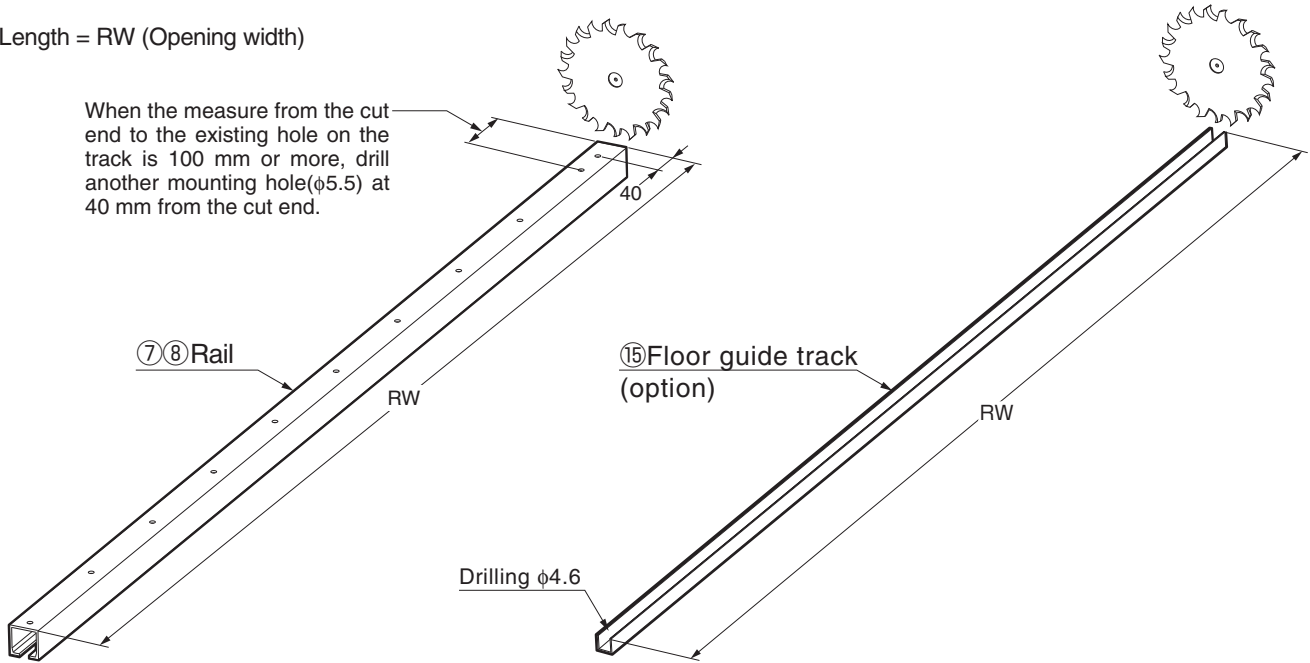
### ⚠ Caution

- ❗ 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] Upper track ⑦⑧, Floor guide track ⑮ (option)

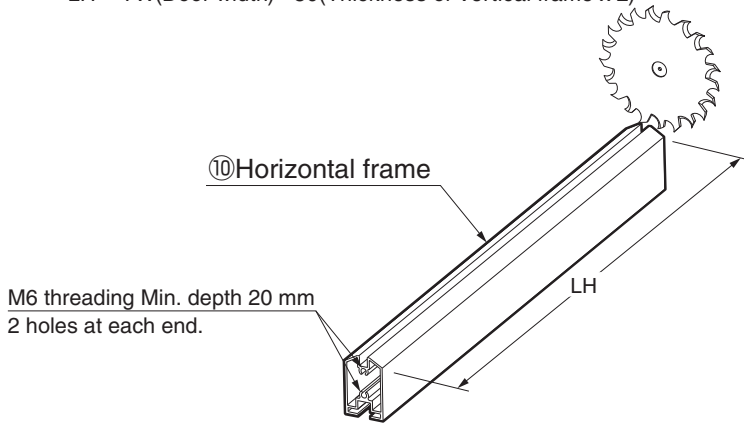
Length = RW (Opening width)

When the measure from the cut end to the existing hole on the track is 100 mm or more, drill another mounting hole(φ5.5) at 40 mm from the cut end.



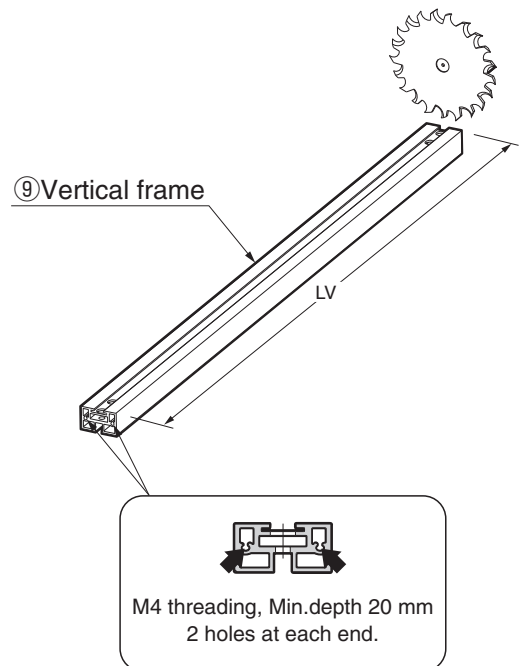
### [2] Horizontal frame ⑩

LH = TW(Door width) - 50(Thickness of Vertical frame x 2)



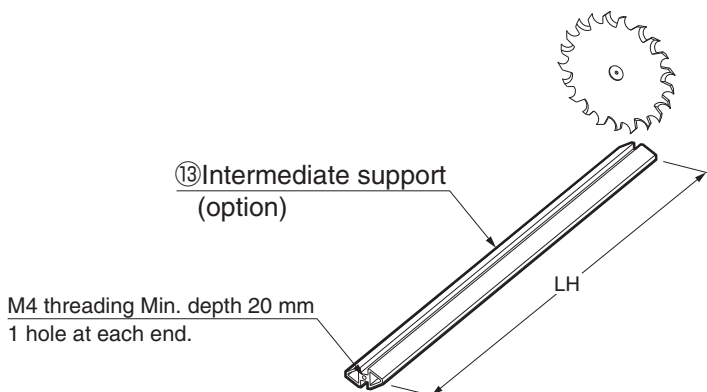
### [4] Vertical frame ⑨ - Step 1

LV = TH (Door height) - 30



### [3] Intermediate support ⑬, when used

LH = TW(Door width) - 50(Thickness of Vertical frame x 2)



## [5] Vertical frame<sup>⑨</sup> - Step 2

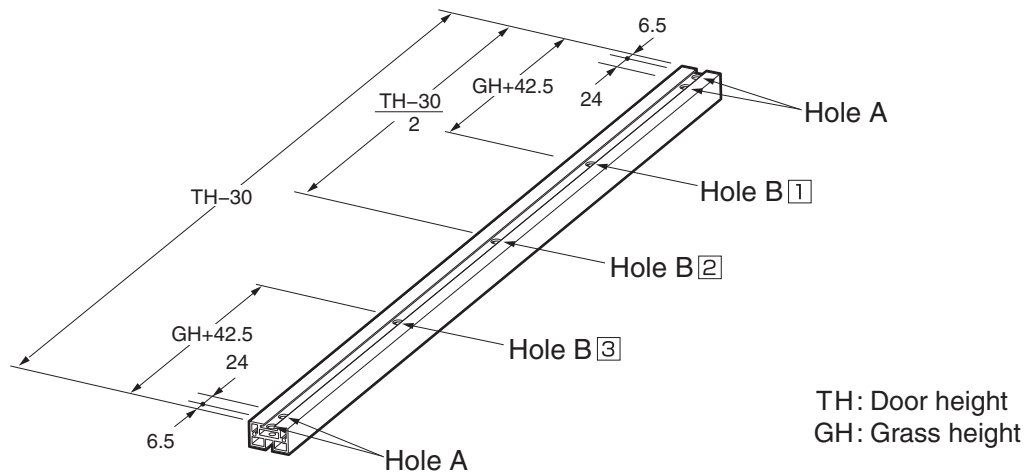
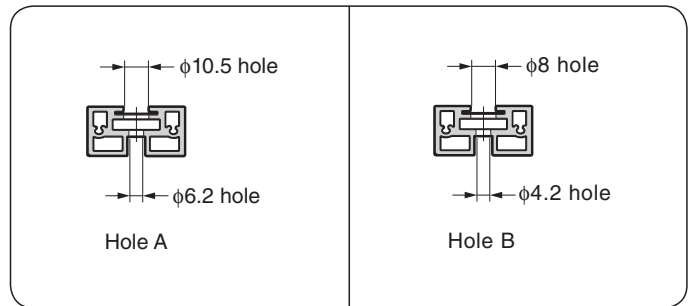
Drill holes according to the quantity of Intermediate support.

Hole A only if there is no Intermediate support

Hole A + B<sup>②</sup> for 1 Intermediate support

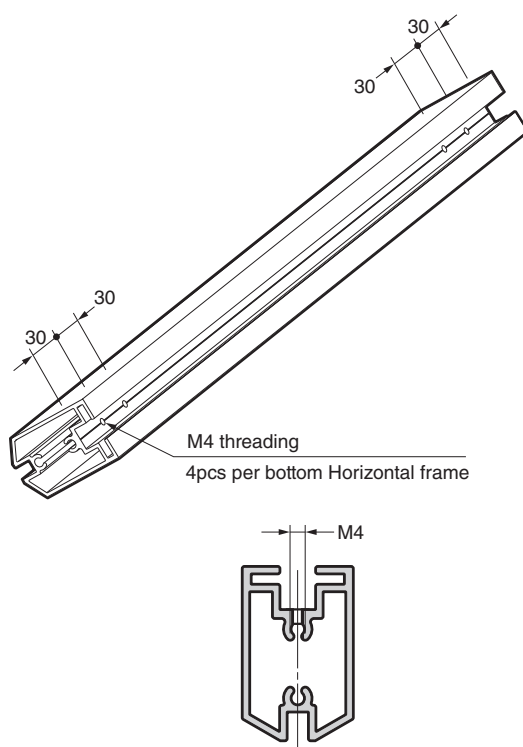
Hole A + B<sup>①</sup>, B<sup>③</sup> for 2 Intermediate supports

Hole A + B<sup>①</sup>, B<sup>②</sup>, B<sup>③</sup> for 3 Intermediate supports

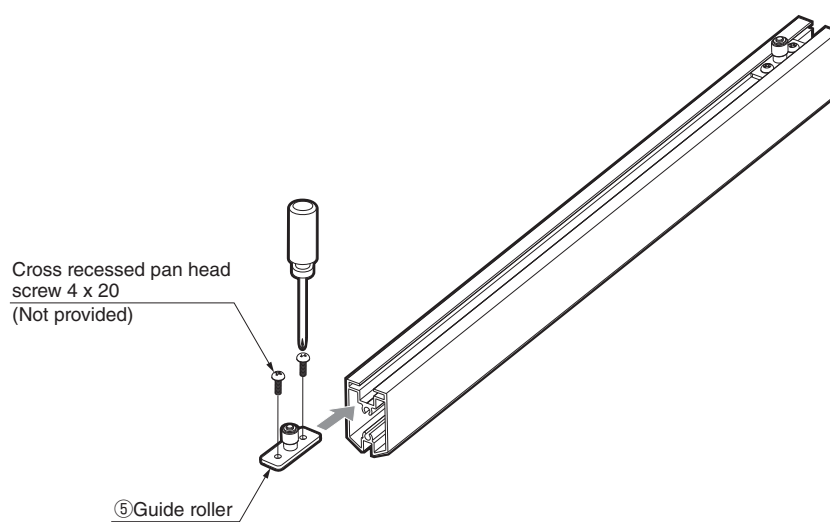


When using Floor guide track ⑮

### [6] Horizontal frame ⑩ (bottom) processing

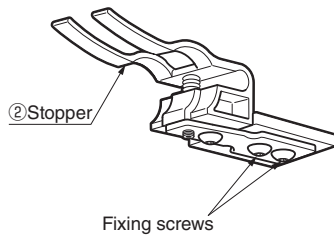


### [7] Fix the Guide roller ⑤ to both ends of the Horizontal frame ⑩.

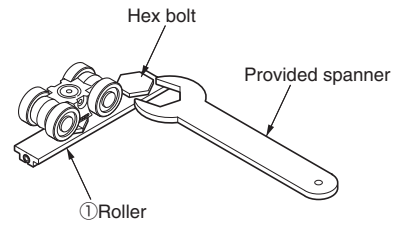


## 2 Inserting Parts into Upper Track

[1] Slightly loosen the Fixing screws with the provided Hex key.



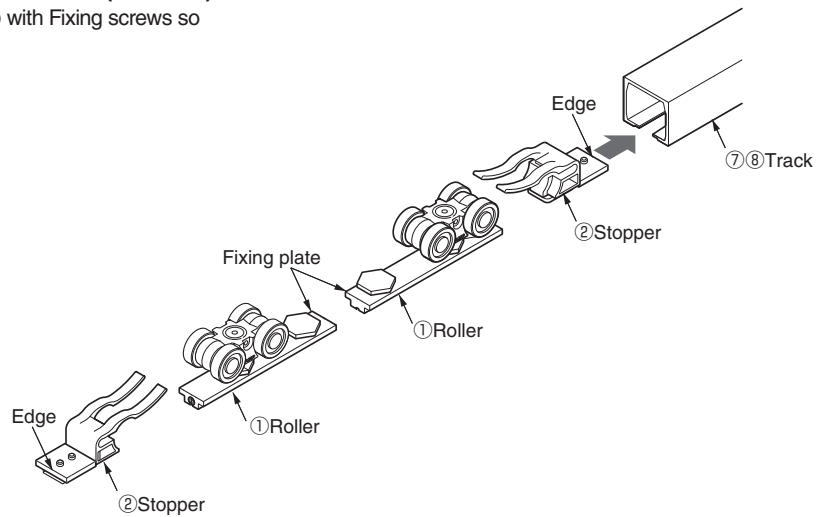
[2] Slightly loosen the hex bolt with the spanner provided.



[3] Insert Roller ① and Stopper ② in Track (⑦ or ⑧).

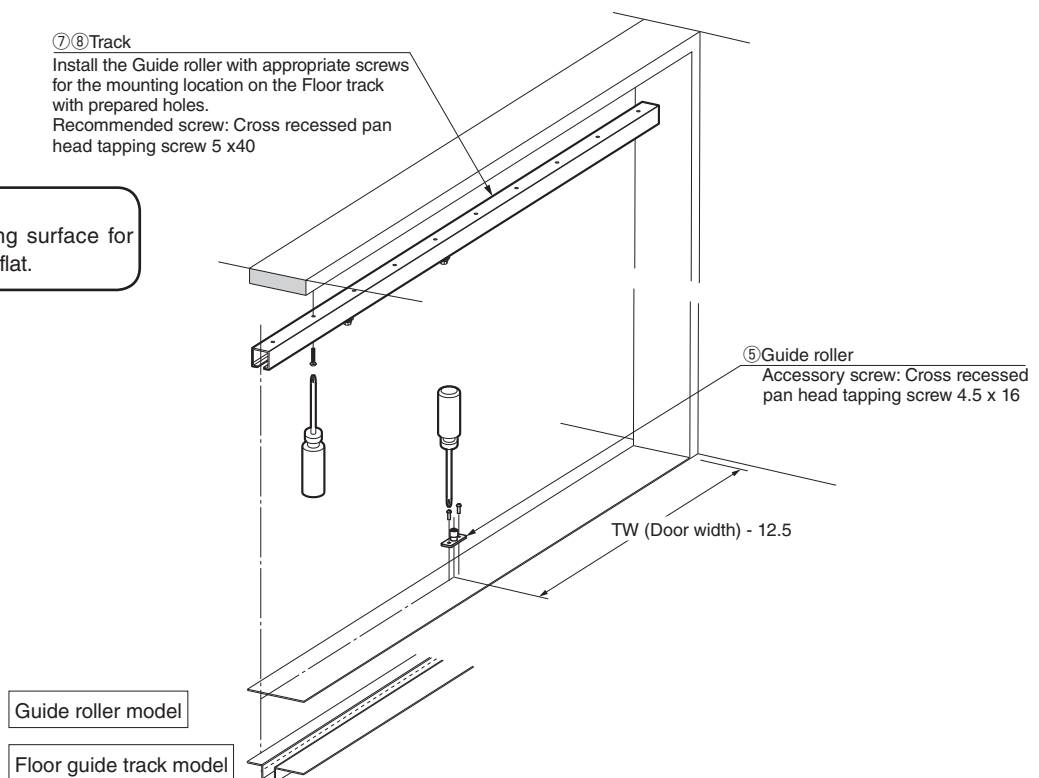
When inserting, temporarily fix Stopper ② with Fixing screws so as not to protrude from the track.

**Caution**  
 Check with the direction when insert the stoppers.



## 3 Mounting of Upper Track ⑦⑧ and Guide roller ⑤ or Floor guide track ⑮

**Caution**  
 Be sure that the mounting surface for the track is horizontal and flat.



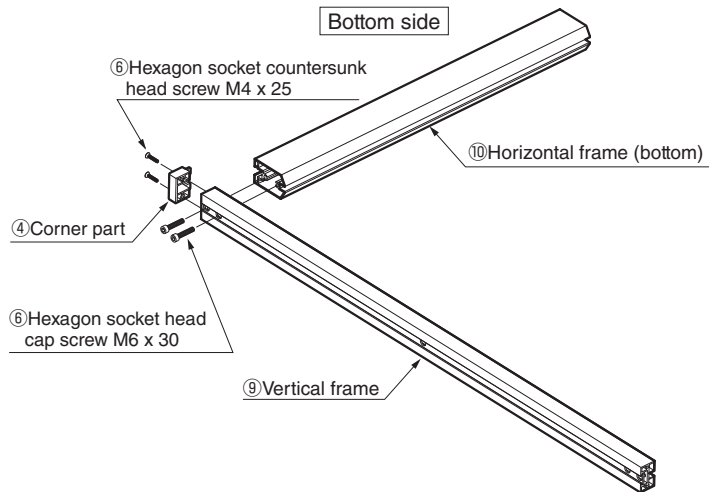


## 4 Assembling Door

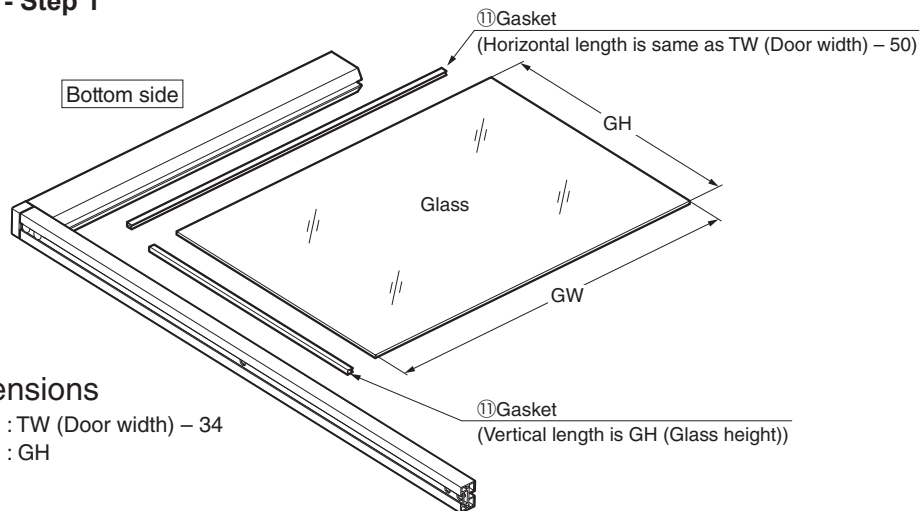
### ⚠ Caution

- ❗ Coat the screws with adhesive for screws.
- ❗ Be careful when installing glass to avoid injury.

### [1] Assembly of Vertical frame<sup>⑨</sup> and Horizontal frame<sup>⑩</sup> (lower)



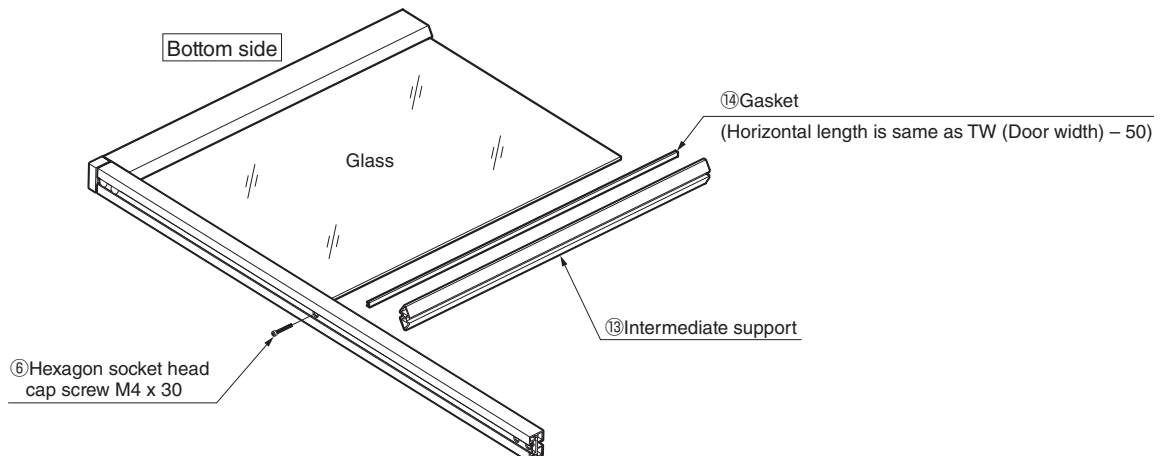
### [2] Insertion of glass - Step 1



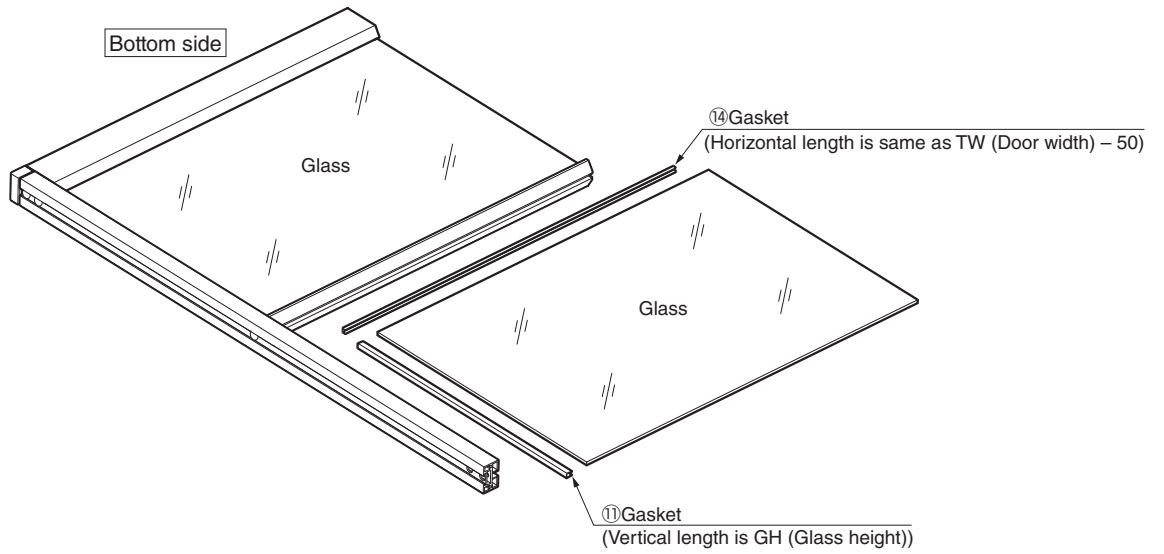
### ■ Glass dimensions

Horizontal length : TW (Door width) - 34  
Vertical length : GH

### [3] Assembly of Intermediate support<sup>⑬</sup>, when used

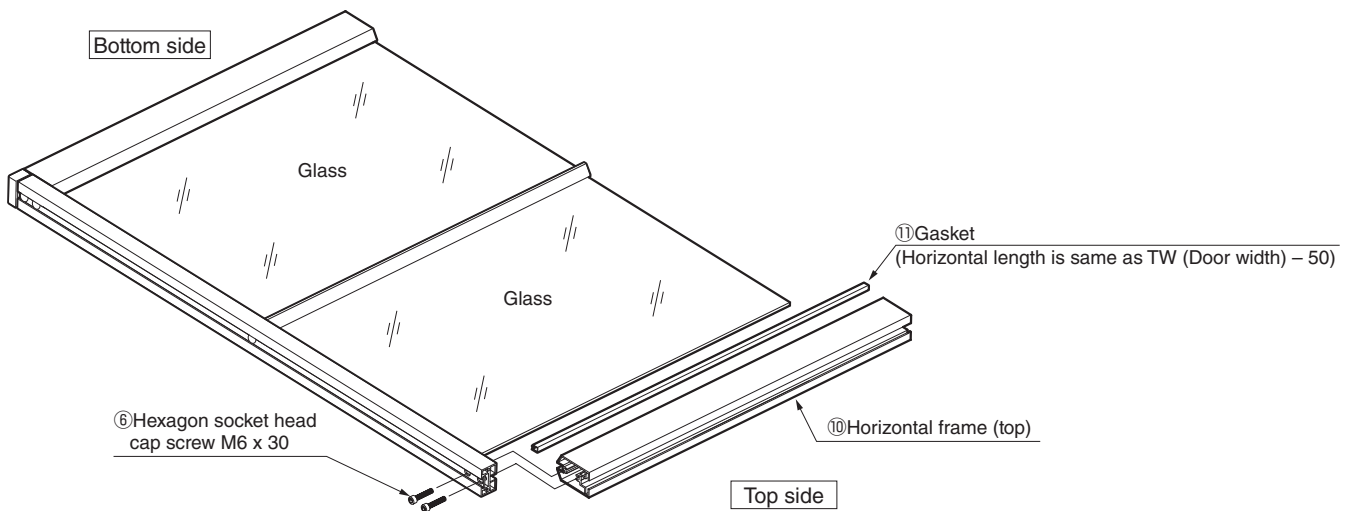


**[4] Insertion of glass - Step 2, when Intermediate support is used**

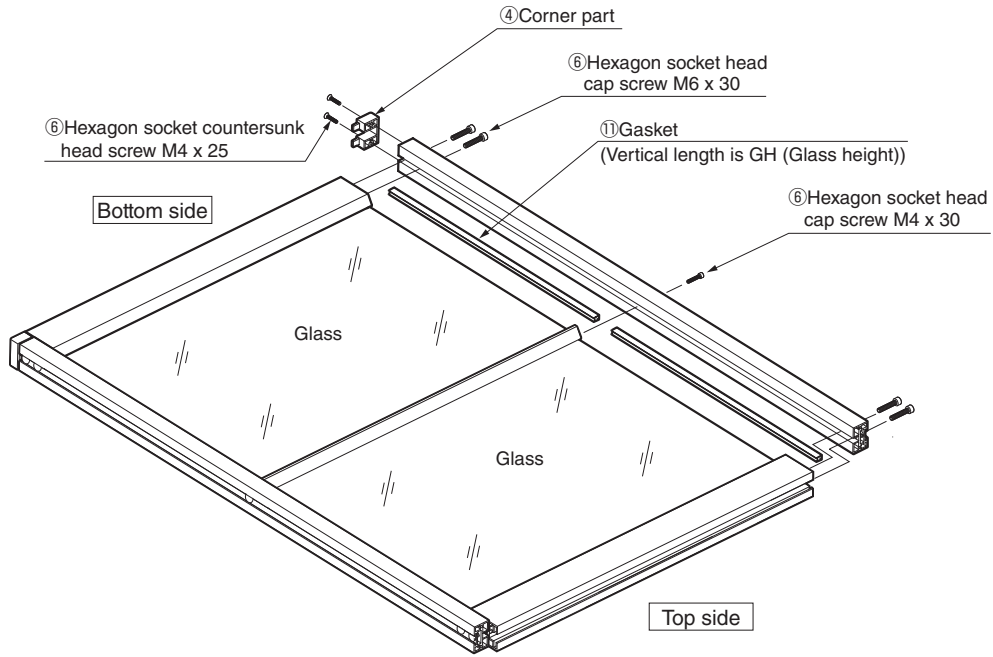


Repeat steps 9-3 to 9-4 to assemble doors with more than 2 Intermediate supports.

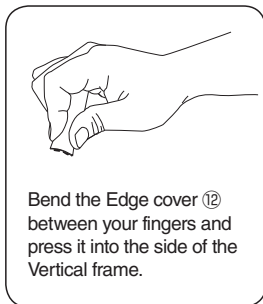
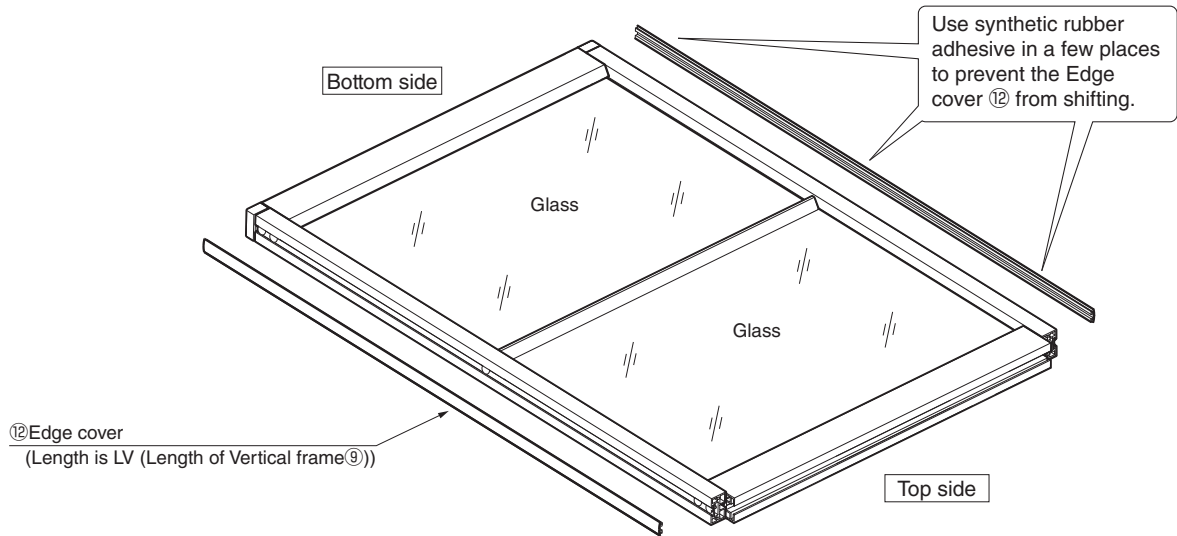
**[5] Assembly of Horizontal frame ⑩ (top)**



**[6] Assembly of Vertical frame<sup>⑨</sup>**



**[7] Assembly of Edge covers<sup>⑫</sup>**



**⚠ Caution**

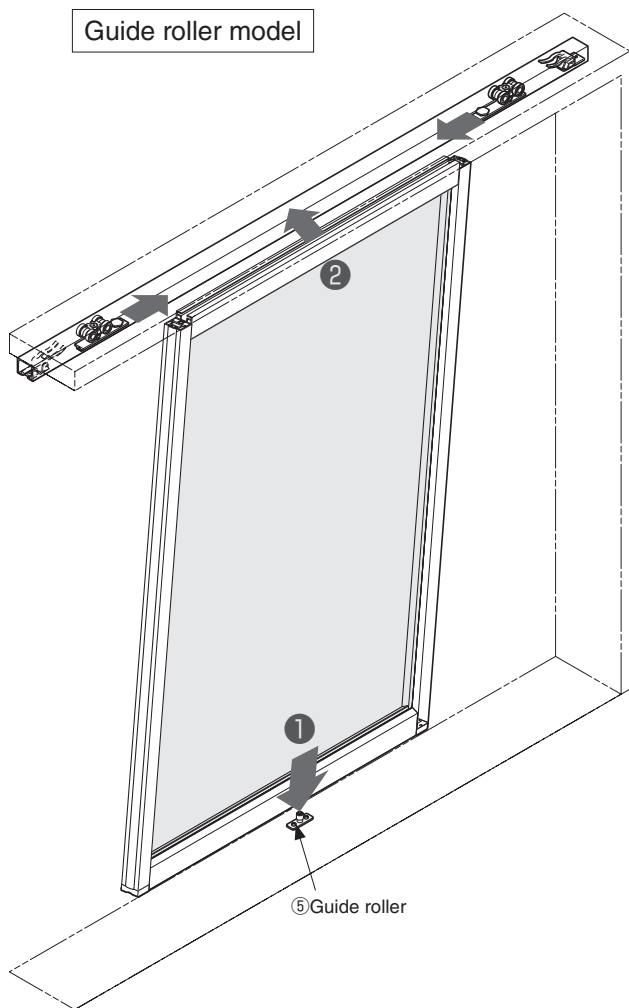
❗ Before attaching the Edge covers, make sure the frame is not biased or skewed, and that all bolts are tight. Make sure the parts are firmly assembled and there is no warping or skewing.

## 5 Hanging the Door

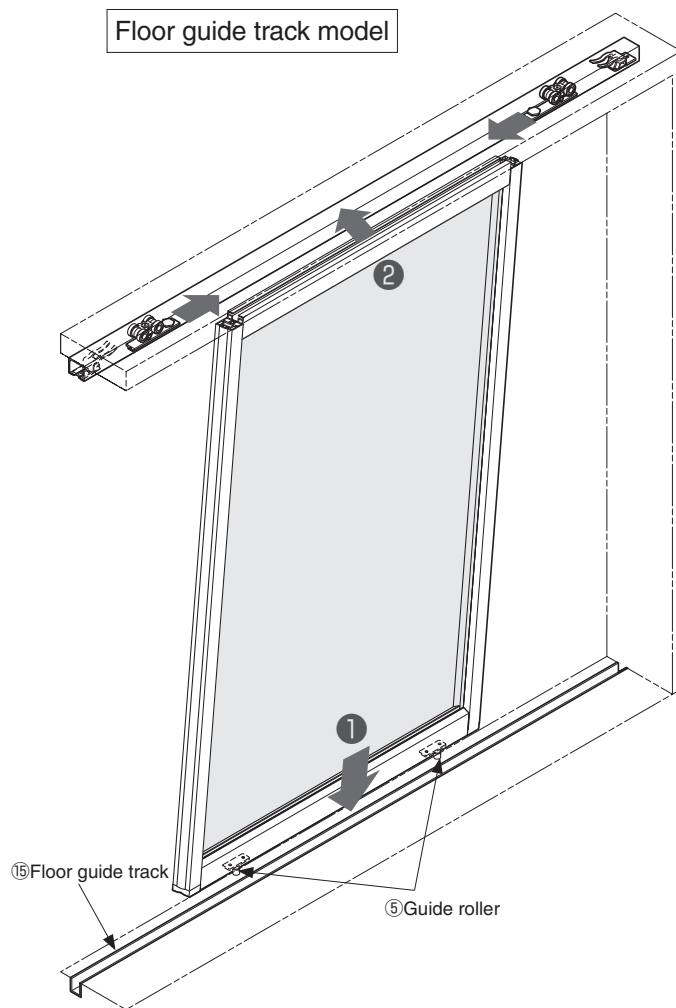
### ⚠ Caution

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

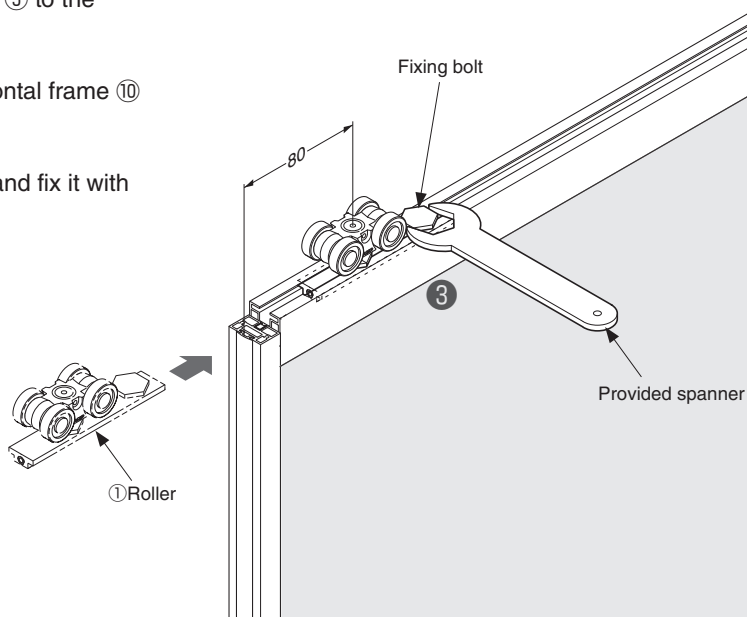
Guide roller model



Floor guide track model

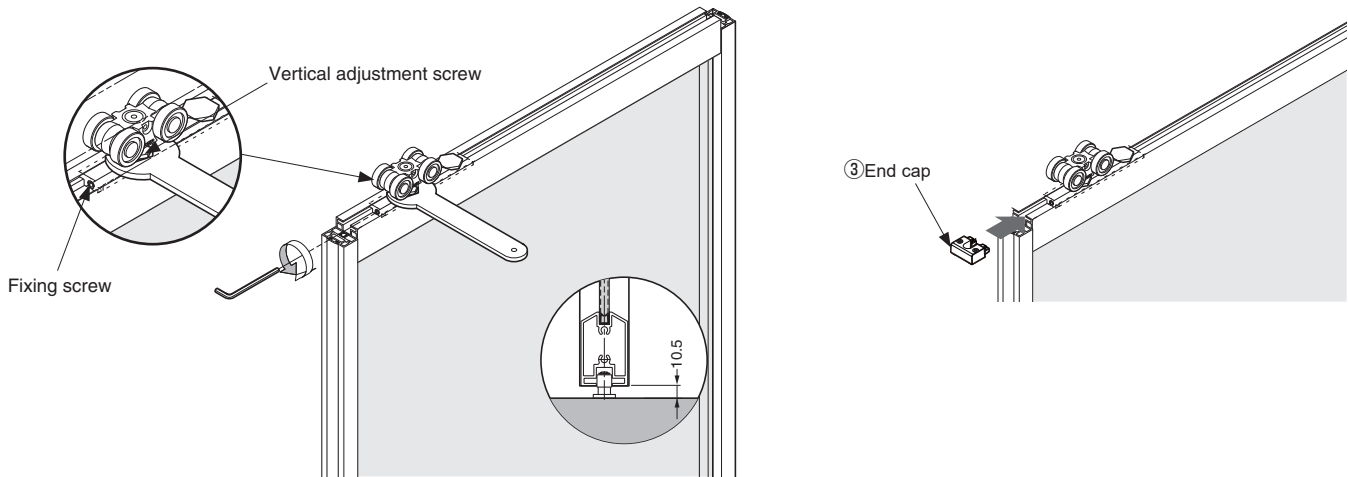


- [1] Put a support below the door to be hanged. Tilt the door as shown in the figure, and set the Guide roller ⑤ to the groove of the bottom horizontal frame ⑩.
- [2] Insert the fixing plate of the Roller in the Horizontal frame ⑩ as shown in the figure below.
- [3] Position the Roller at 80 mm from the cut end and fix it with provided spanner.



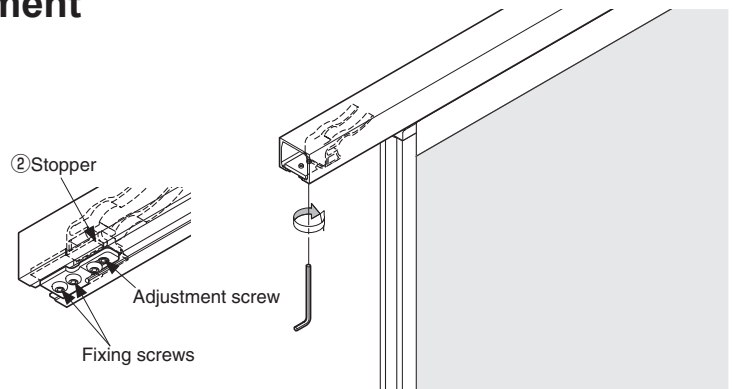
## 6 Adjustment of Door Height

- [1] Remove the support under the door.
- [2] Turn Vertical adjustment screw of Roller ① with provided spanner and adjust the gap between the door and the floor to 10.5 mm (8.5 mm for Floor guide track model). The height adjustment range is -4 mm to +1 mm.
- [3] Tighten the fixing screw of Roller ① with provided hex key.
- [4] Put the End cap ③ on both ends of the door.

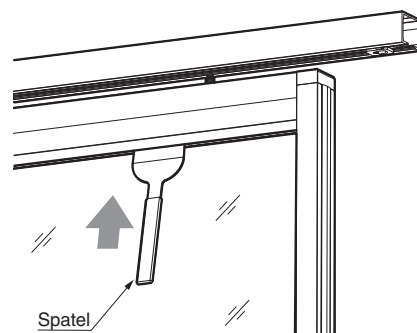


## 7 Fixing Upper Stopper and Adjustment

- [1] Fix the Stopper ② with Fixing screws to the position where the door touches the Vertical frame.
- [2] Adjust the catching force by turning the adjustment screw on stopper ②. The catching force is set to maximum at the factory.



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.



<b>Final verification</b>	<b>Verify that all screws are securely tightened, and verify that all screws have been used.</b>
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<b>Periodical Inspection</b>	<ul style="list-style-type: none"> <li>• Clean the inside of the track.</li> <li>• Check the upper and lower space of the door. If necessary, correct the space.</li> </ul>
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## TROUBLESHOOTING

Trouble	Checkpoint	Solution
Abnormal noise during operation	Check if door bottom contacts the floor or floor guide.	Verify that track fixing screws are not loosened. Then, Adjust the door height according to the "INSTALLATION DRAWING" on page 3.
	Check if door touches adjacent parts.	Adjust position of the floor guide.
	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 the floor or floor guide.	Verify that track fixing screws are not loosened. Then, Adjust the door height such that the clearance between the door bottom and floor is 6 – 11 mm between door bottom and floor.
Door does not move.	Check the track retaining screws for looseness.	Retighten screws to free the roller.
Door starts to move.	Check the upper track if it is set horizontally.	Using a level gauge, reset upper track horizontally.

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