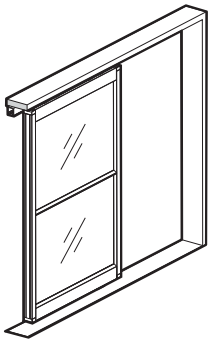
LAMP®

Installation Manual for AF-25HB Type Aluminum Frame Sliding Door

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



■About the product

AF-25HB is a semi-recessed (the gap between roller and door is minimal) sliding door system for aluminum frames.

Safety precautions

⚠ To install the hardware correctly, carefully read the “Safety precautions” and “Installation instructions” in this manual.

Be sure to follow these instructions.

Read and follow these safety precautions to ensure safety.

The following icons indicate precautions to prevent incorrect installation and ensure safe use of the product.

⚠ Warning This icon indicates information that if ignored may lead to incorrect operation that could result in death or serious injury.

⚠ Caution This icon indicates information that if ignored may lead to incorrect operation that could result in injury.

Also, the icons below are used in addition to the icons above to differentiate between the types of risk and damage.

⃠	This icon indicates actions that should not be done (prohibited actions).
❗	This icon indicates actions that must be done.

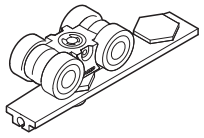
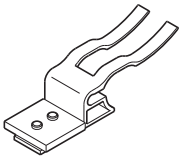
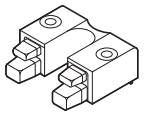
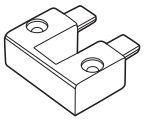
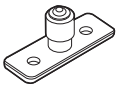
❗ This sliding door system should be installed by an experienced person who has correct knowledge. If the system is not installed correctly, the door will not operate smoothly, and or may cause injury.

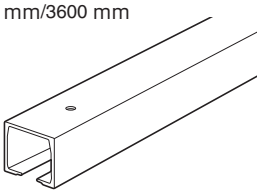
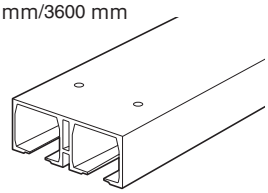
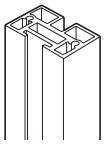
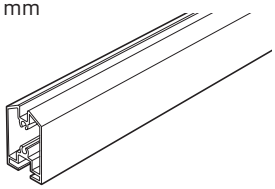
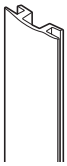
❗ It is necessary to manufacture the frame with sufficient strength so it endures the weight of the door and impact shocks upon opening/closing the door. A frame with poor strength or loose screws might result in improper and slower movement of the door. In the worst case, the door might drop down and cause injury.

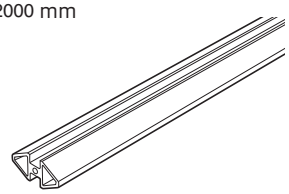
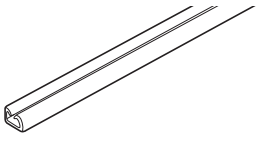
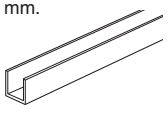
⚠ Installation precautions

- This product is a hanging sliding door. Make sure that the structure is strong enough to support the door before installing the tracks.
- Clean the floor of your work area so the aluminum frame of the door is not scratched.
- After unpacking the product, check it for damaged or missing parts.
- Do not disassemble nor modify any parts other than those described in this document.
- 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.
- Please use the tempered glass. It is recommended to use shatterproof film on the glass.

1 Parts List

Parts (for 1 door)			
①Hanging roller …… 2 pcs Accessory: Spanner 22 mm Hexagon socket screw key 3 mm 	②Stopper …… 2 pcs Accessory: Hexagon socket screw key 3 mm 	③End cap …… 2 pcs 	④Corner part …… 2 pcs Accessory: Hexagon socket screw key 3 mm 
⑤Guide roller …… 1 pc Accessory screw: Pan head tapping screws 4.5 x 16 	⑥Screw set ・Hexagon socket head cap screw M6 x 30 …… 8 pcs (for Frame⑨⑩) ・Hexagon socket head cap screw M4 x 30 …… 6 pcs (for Intermediate support⑬) ・Hexagon socket countersunk head screw M4 x 25 …… 8 pcs (for Corner Part④)		

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

Optional parts		
⑬Intermediate support 2000 mm 	⑭Gasket for Intermediate support for 5 mm glass: 2500 mm for 6 mm glass: 3000 mm 	⑮Floor 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. 

Items that need to be prepared at the site		
●Screws to install the track⑦⑧	Pan head tapping screws 5 x 40	as many as needed
●Screws to fix guide roller⑤	Pan head screws 4 x 20	2 pcs (These screws are needed when Floor track ⑮ is used.)

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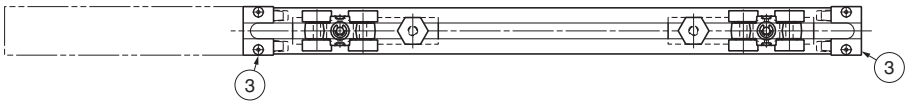
2 Drawings

■Specifications

	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		

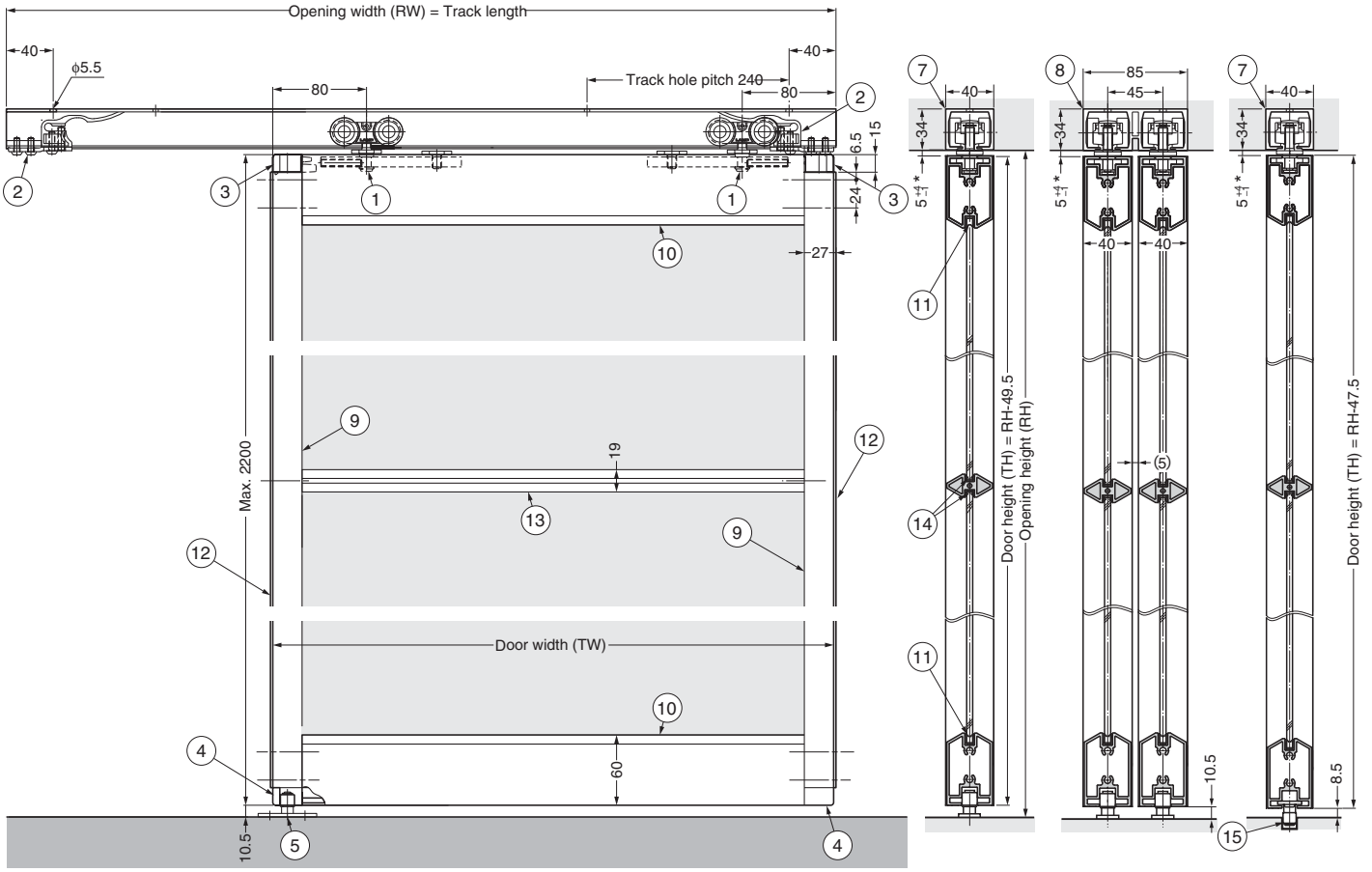
***Guide to required numbers of Support**
(Under 70 kg of door with 5 mm glass)

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



⚠ Caution

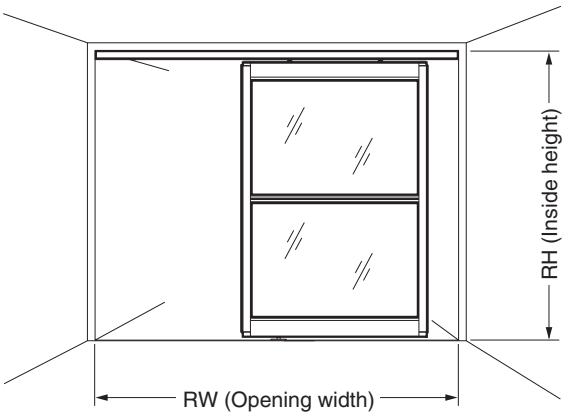
When door jumb is not provided apply Two-way soft closer.

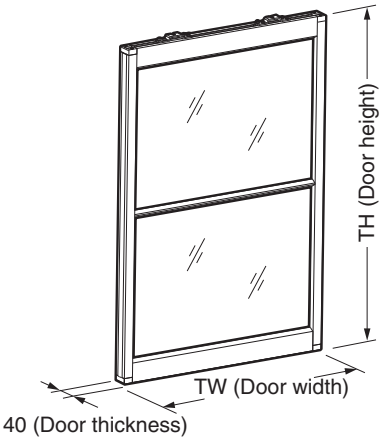


*Height adjustable range: −1 mm to +4 mm

3 Dimensions of doors (Cut off after 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

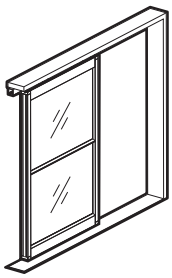
$$\text{Door width TW} = \frac{\text{(RW-4) + (number of overlaps x 25)}}{\text{Number of doors}}$$

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

Glass width GW = 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

TH = 2100–49.5
= 2050.5
≒ 2050 mm

$$TW = \frac{(1800-4) + (1\times25)}{2^*}$$

= 910.5
≒ 910 mm

Floor guide track model

TH = 2100–47.5
= 2052.5
≒ 2052 mm

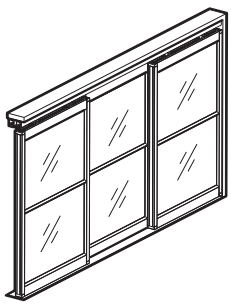
$$TW = \frac{(1800-4) + (0\times25)}{2^*}$$

= 898 mm

*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

TH = 2100–49.5
= 2050.5
≒ 2050 mm

$$TW = \frac{(2500-4) + (2\times25)}{3}$$

= 848.666…
≒ 848 mm

Floor guide track model

TH = 2100–47.5
= 2052.5
≒ 2052 mm

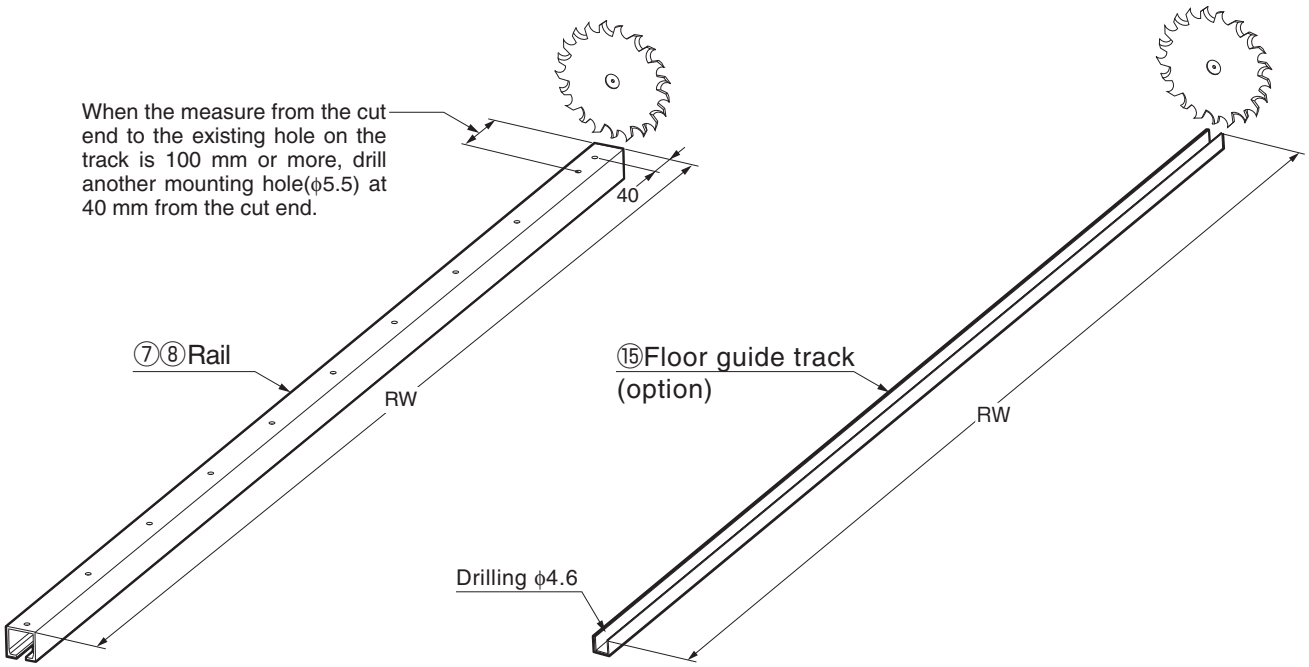
4 Cutting and hole processing of standard length parts

⚠ 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.

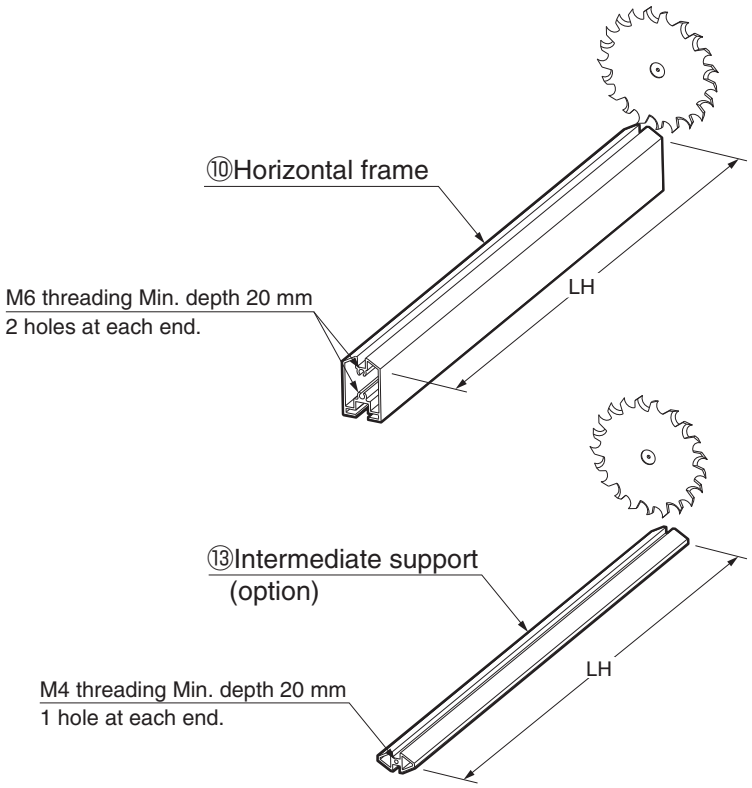
Track (⑦⑧), Floor guide track ⑮ (option)

Length = RW (Opening width)



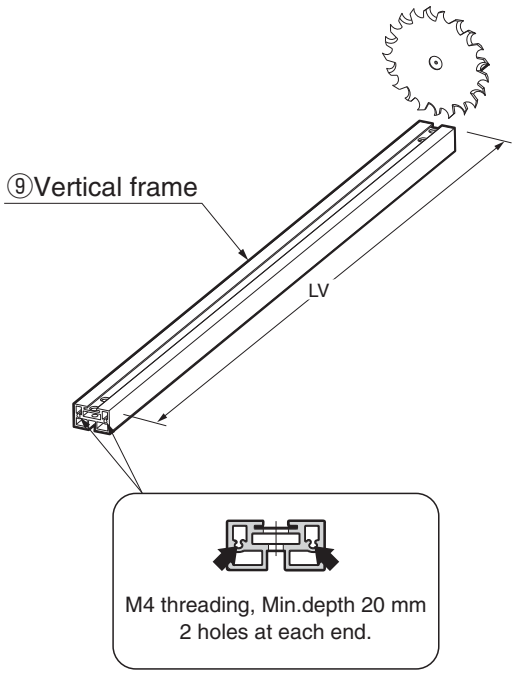
Horizontal frame ⑩, Intermediate support ⑬ (option)

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



Vertical frame ⑨

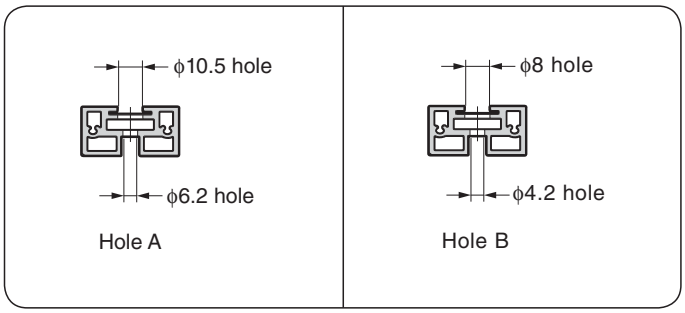
LV = TH (Door height) – 30

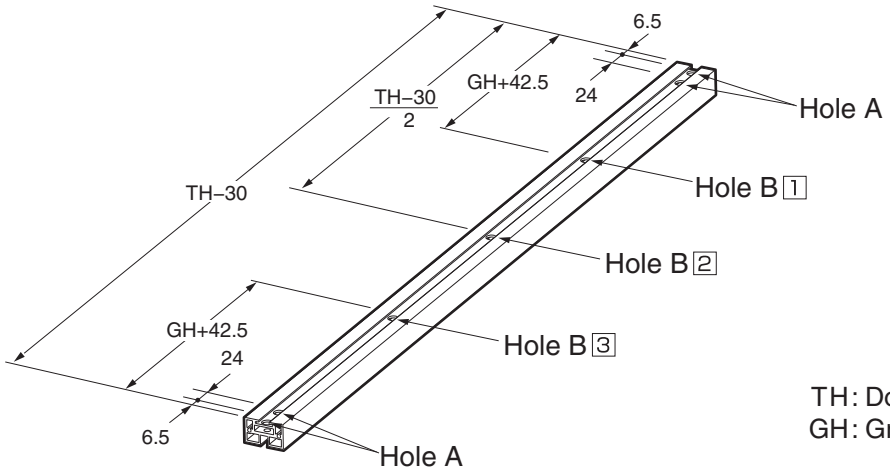


5 Vertical frame ⑨ processing

Drill holes according to the quantity of Intermediate support.

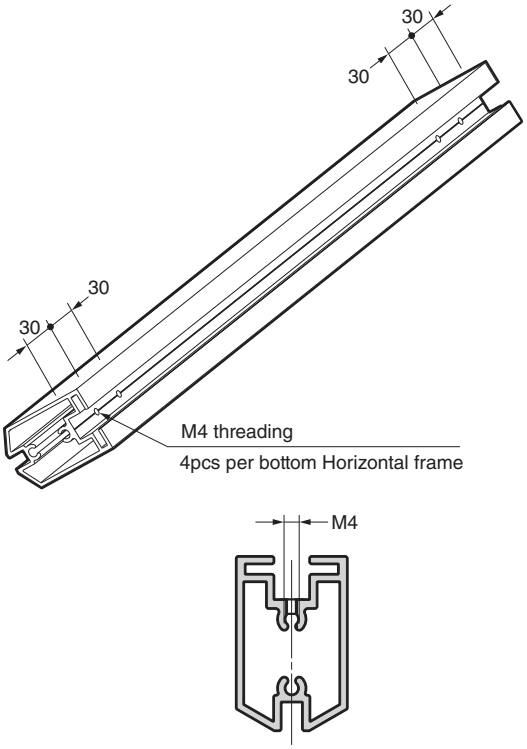
Hole A only if there is no Intermediate support
Hole A + B2 for 1 Intermediate support
Hole A + B1, B3 for 2 Intermediate supports
Hole A + B1, B2, B3 for 3 Intermediate supports



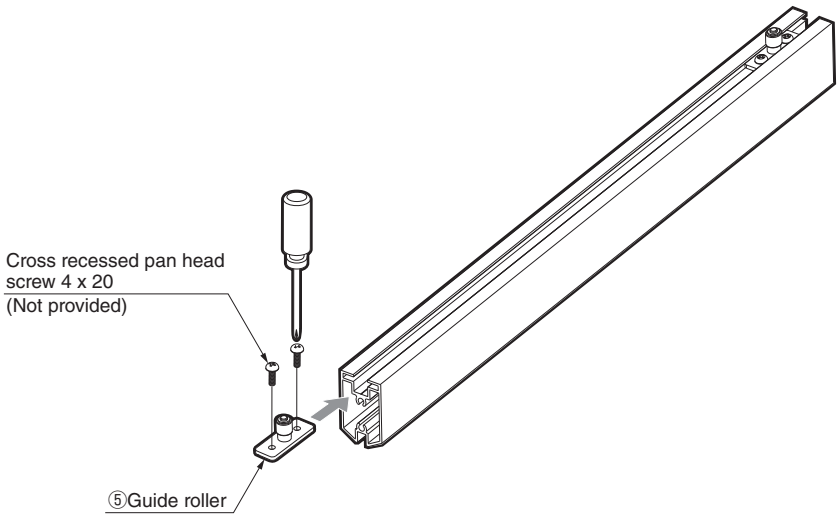


TH: Door height
GH: Grass height

6 Horizontal frame ⑩ (bottom) processing (when using Floor guide track ⑮)

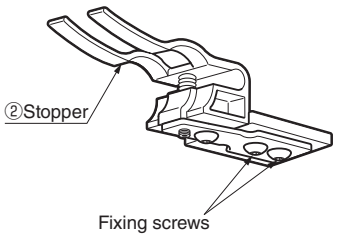


Fix the Guide roller ⑤ to both ends of the Horizontal frame⑩.

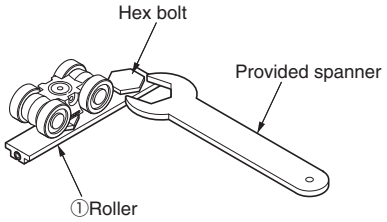


7 Assembling Roller ① , Stopper ②

(1) Slightly loosen the Fixing screws with the provided Hex key.

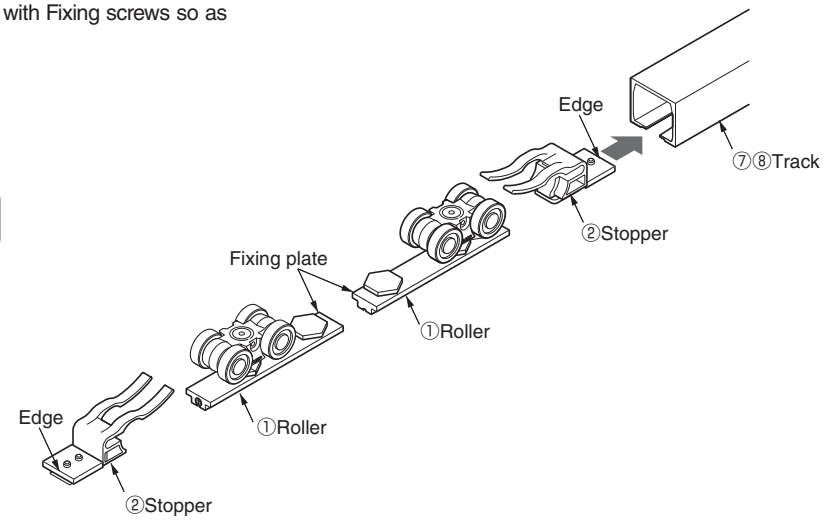


(2) Slightly loosen the hex bolt with the spanner provided.



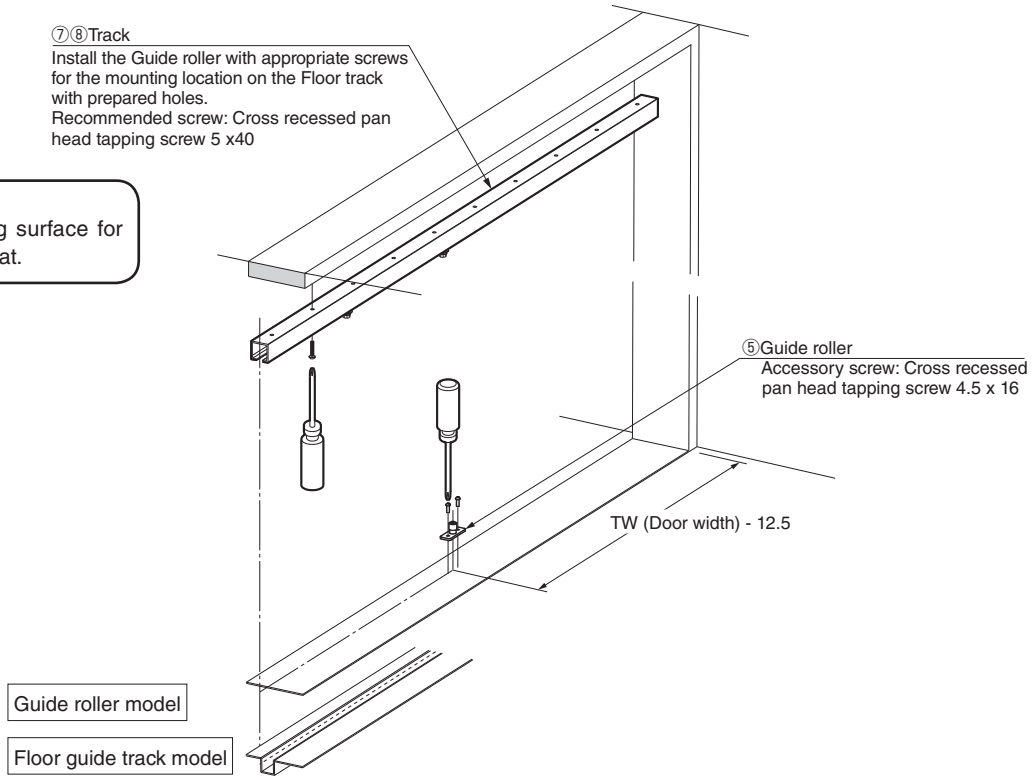
(3) Insert Roller ① and Stopper ② in Track (⑦ or ⑧).
When inserting, temporarily fix Stopper ② with Fixing screws so as not to protrude from the track.

⚠ Caution
Check with the direction when insert the stoppers.



8 Installing the track and Guide roller ⑤ or Floor guide track ⑮

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



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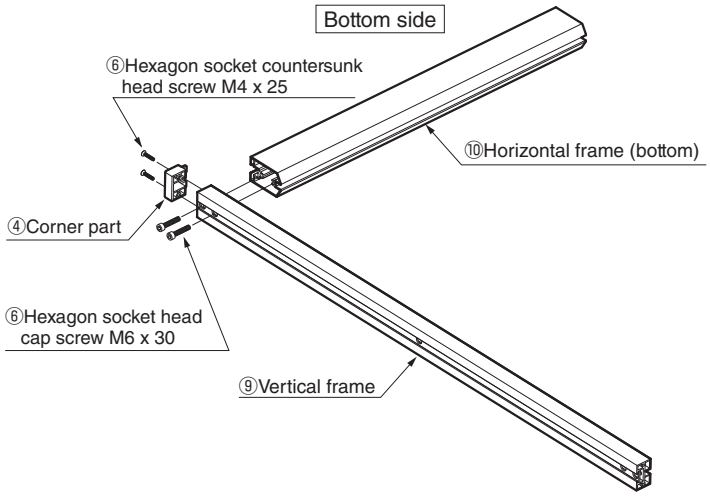
9 Assembling door

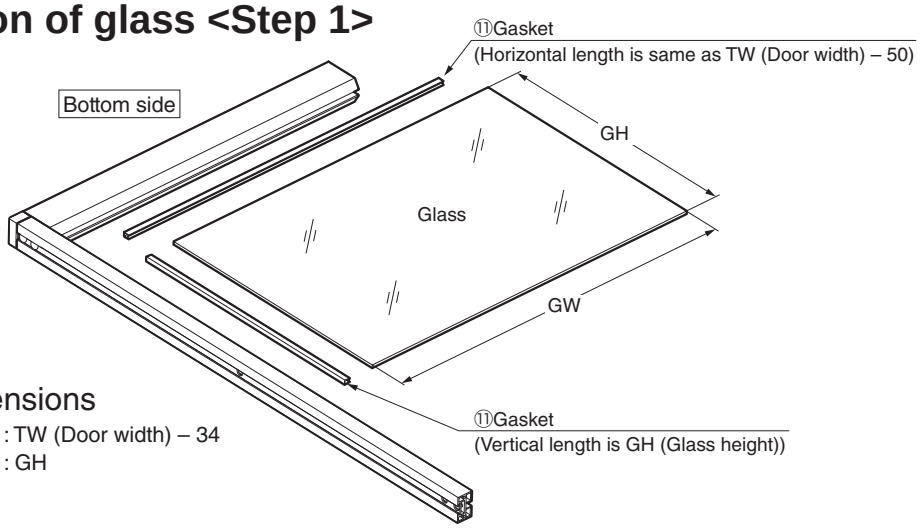
⚠ Caution

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

9-1 Assembly of the Vertical frame ⑨ and Horizontal frame (bottom) ⑩



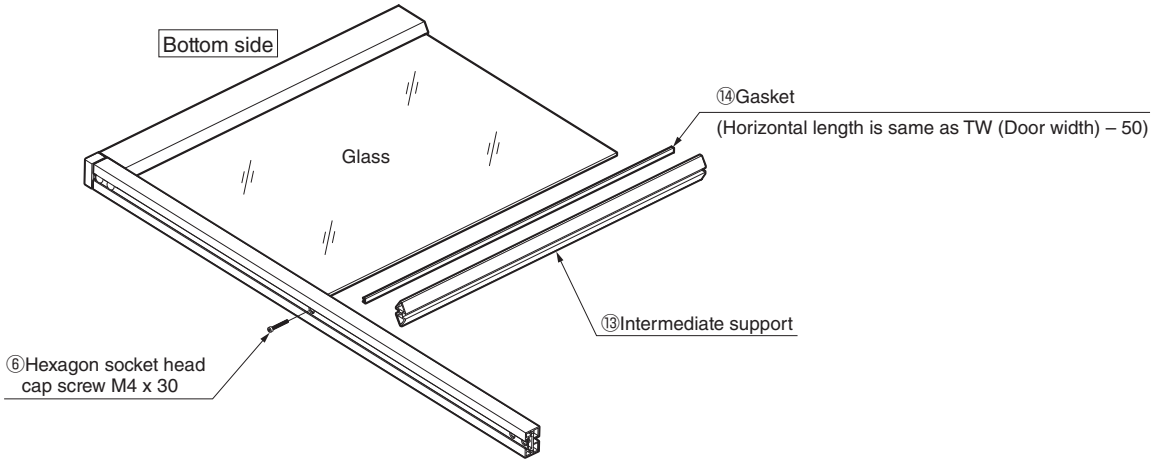
9-2 Insertion of glass <Step 1>



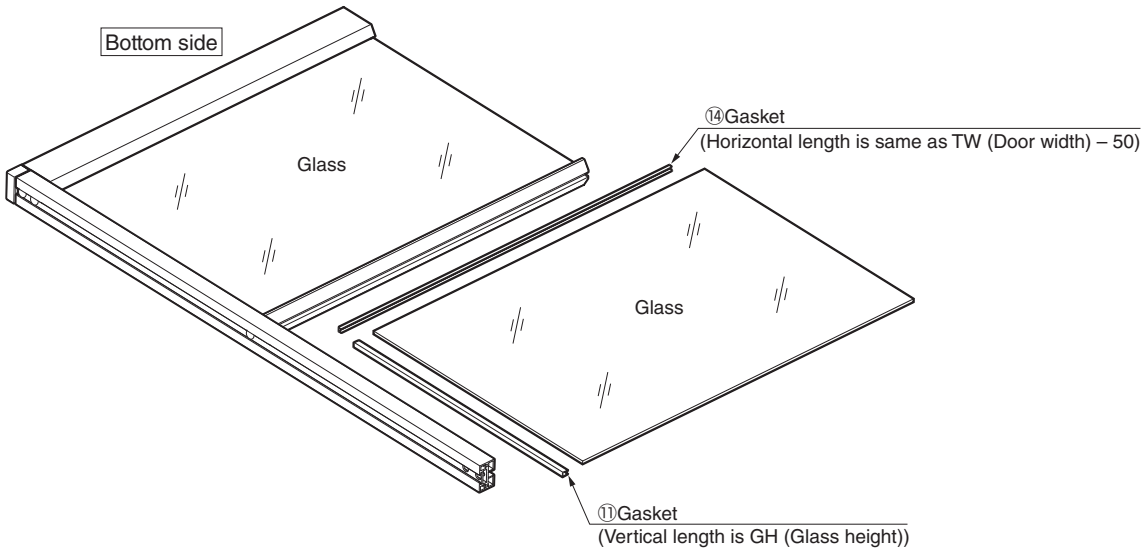
■Glass dimensions

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

9-3 Assembly of Intermediate support ⑬ (option)

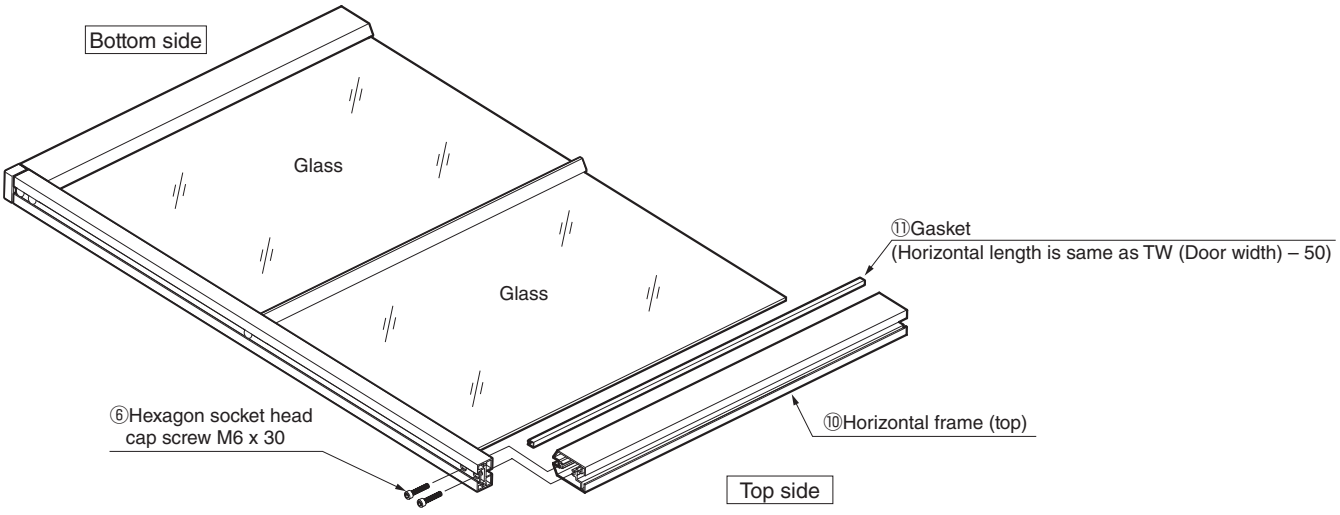


9-4 Insertion of glass <Step 2> (option)

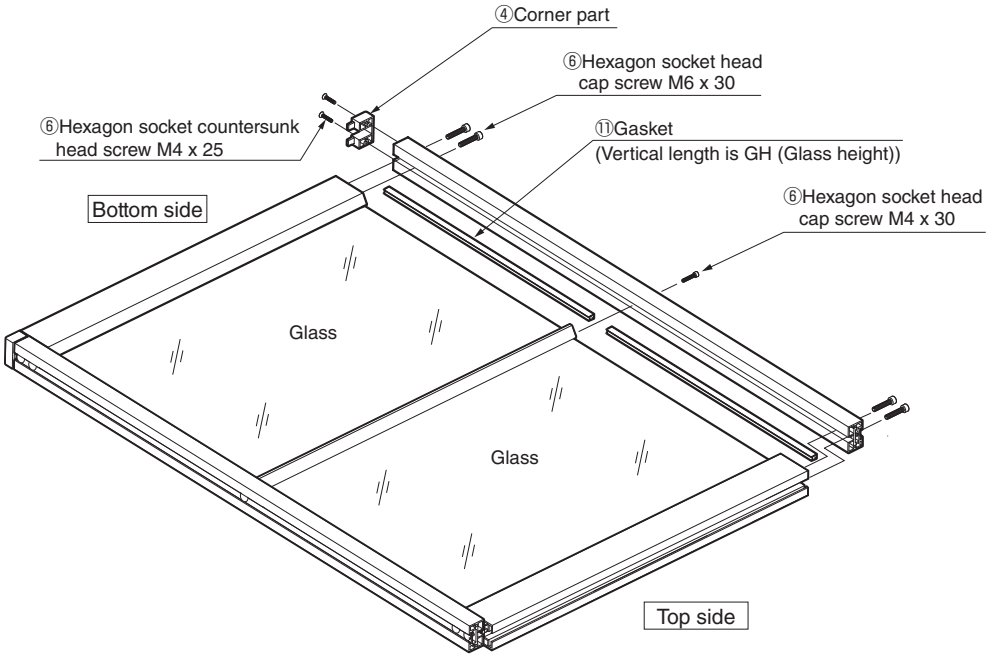


Repeat steps 9-3 to 9-4 to assemble doors with more than 2 Intermediate supports.

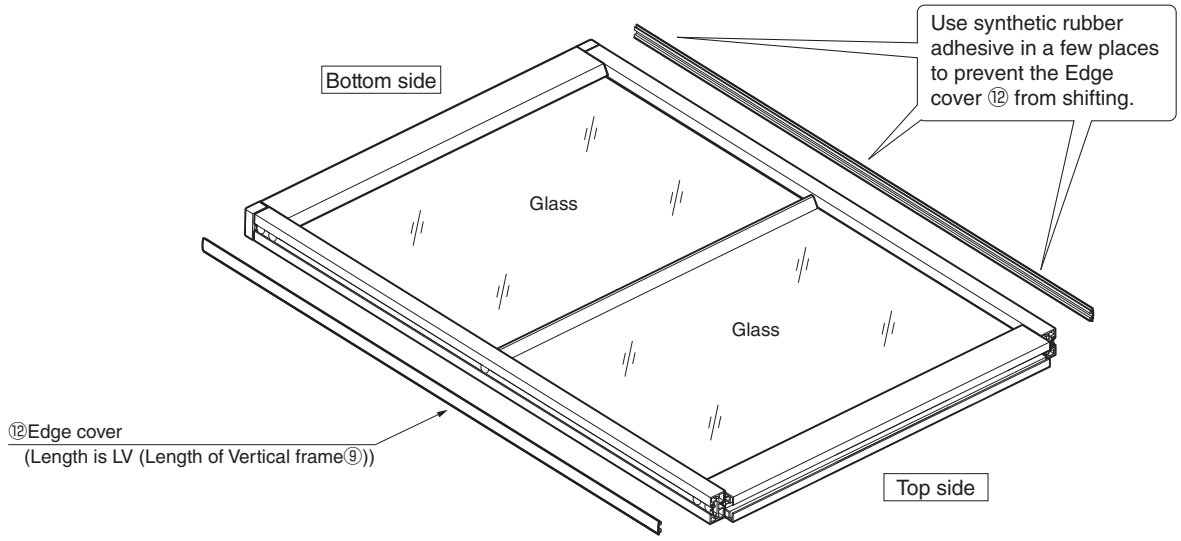
9-5 Assembly of Horizontal frame (top) ⑩



9-6 Assembly of vertical frame ⑨



9-7 Assembling Edge covers ⑫



Bend the Edge cover ⑫ between your fingers and press it into the side of the Vertical frame.

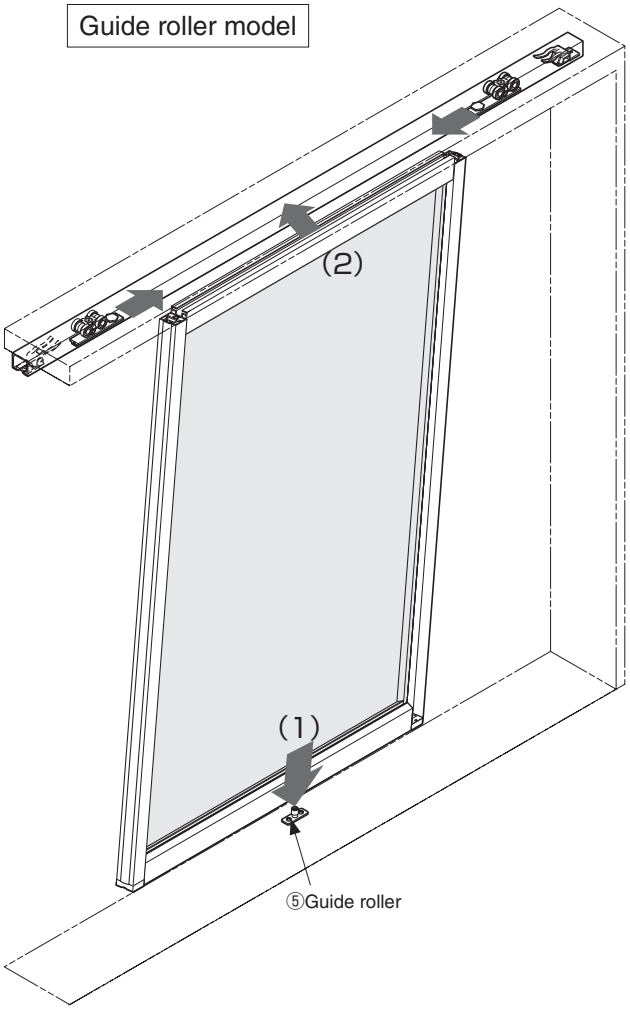
⚠ Caution

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.

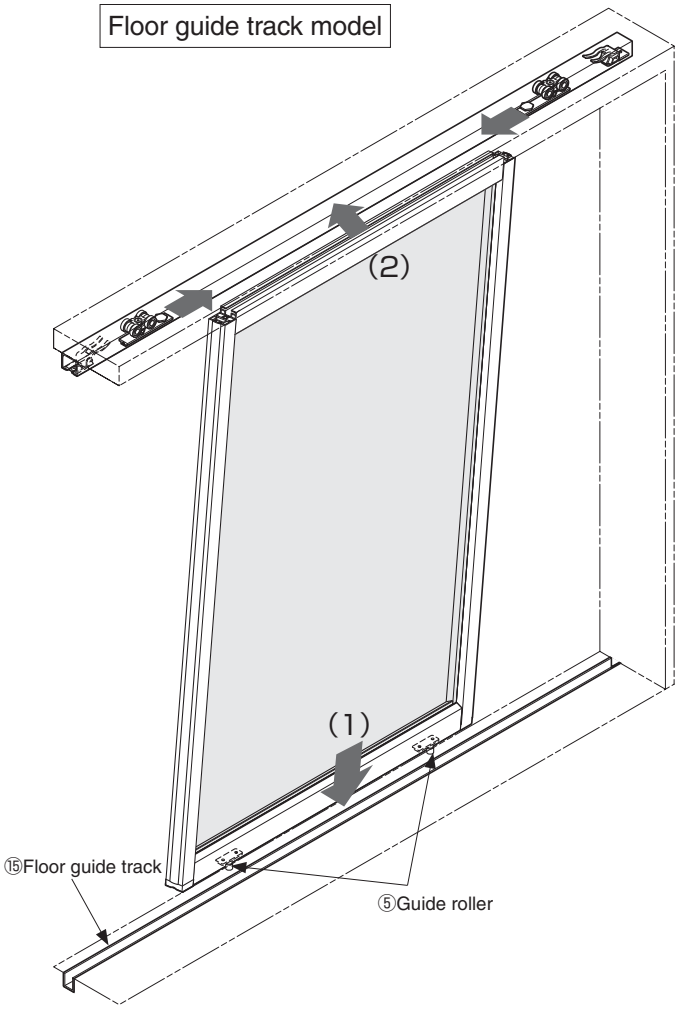
10 Hanging the door

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

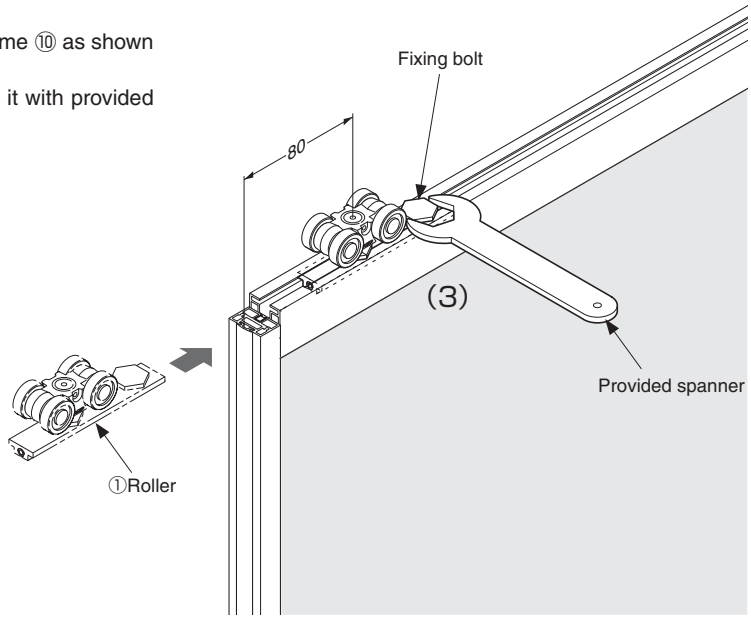
Guide roller model



Floor guide track model

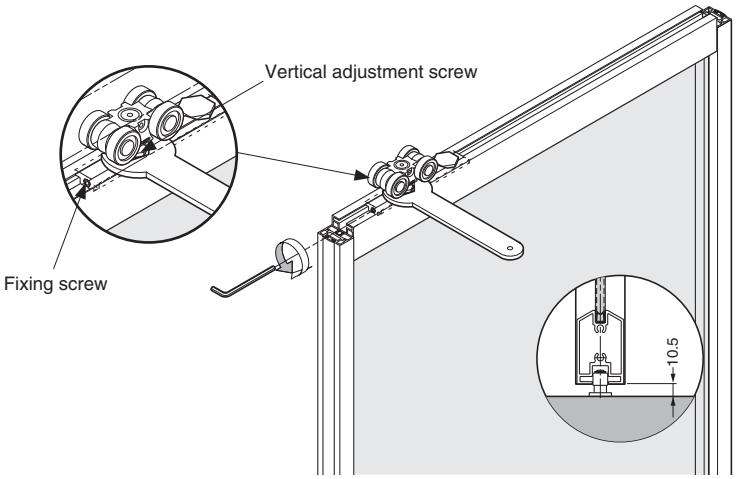


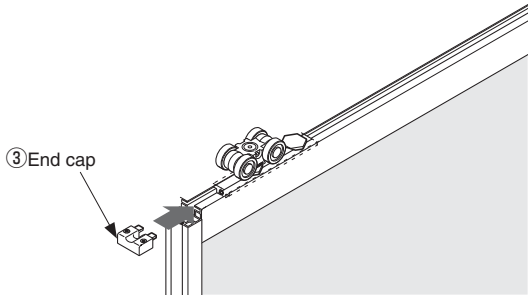
(1) Put a support below the door to be hanged. Tilt the door as shown in the figure, and set the Guide roller ⑤ to the groove of the bottom horizontal frame ⑩.
(2) Insert the fixing plate of the Roller in the Horizontal frame ⑩ as shown in the figure below.
(3) Position the Roller at 80 mm from the cut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



11 Adjustment of door height

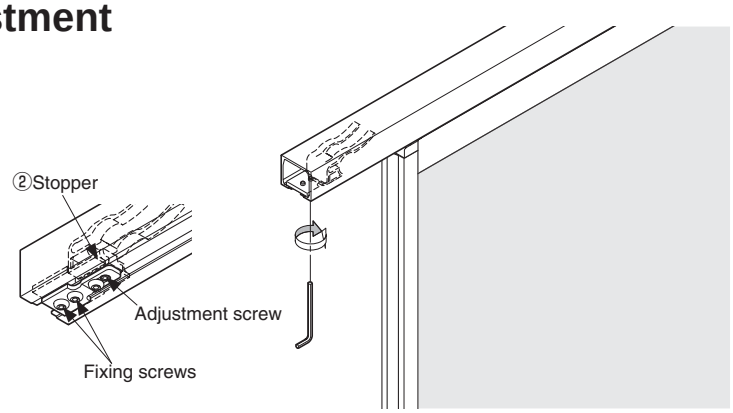
(1) Remove the support under the door.
(2) Turn Vertical adjustment screw of Roller ① with provided spanner and adjust the gap between the door and the floor to 10.5 mm (8.5 mm for Floor guide track model). The height adjustment range is -4 mm to +1 mm.
(3) Tighten the fixing screw of Roller ① with provided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



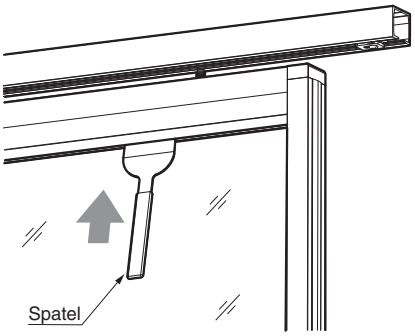


12 Fixing Stopper ② and adjustment

(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.



PERIODICAL INSPECTION	・Clean inside of track. ・Check upper space and lower space of the door. If necessary, correct the space.

■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.
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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