Installation Manual FD80-AFH ALUMINUM FRAME SLIDING DOOR

Surface Mounted Roller

Thank you for selecting 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 stores, public facilities and residences.
- There are two types of horizontal frame designs: the standard type and the slim type.

SPECIFICATIONS

Required number of intermediate supports (4)	0 (Without Intermediate support)	1	2	3
Door height	Max. 2200 mm			2201 — 2700 mm
Door width	804 – 900 mm		901 – 1500 mm	
Glass thickness	5 mm or 6 mm			
Max. Door weight	80 kg/door			
Vertical adjustment	4 mm upward, 4 mm downward			



FOR YOUR SAFETY AND CORRECT INSTALLATION

Meaning of symbols

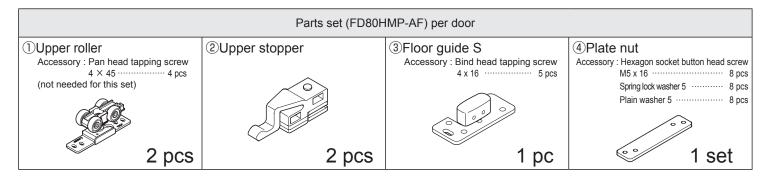


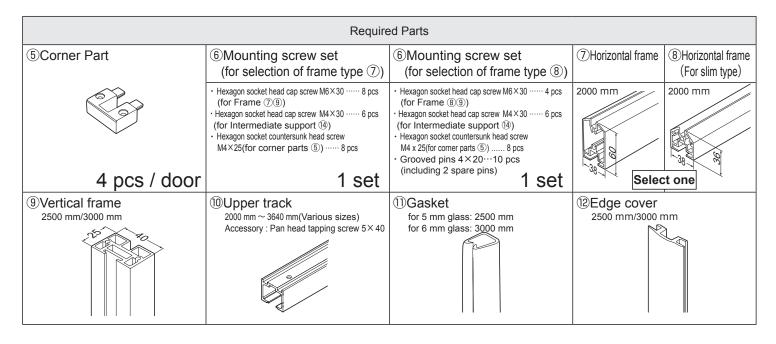
Warning : If not followed, death or serious injury may result.
This product should be installed by a qualified person in accordance with this manual. If it is not installed correctly, the door may fall and cause injury.
Provide a frame that can withstand the weight and impact of opening and closing the 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.
\bigotimes Do not use this product for any other purpose, or with doors that are outside the specifications of this manual.
\bigotimes Do not disassemble or modify any parts other than those described in this document.
Caution : If not followed, injury or damage may result.
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).
m m m m m m m m m m m m m
1 Please use the tempered glass. It is recommended to use shatter-proof film on the glass.
U When installing "pocket door" specification, make "easy-maintenance" structure. For example, use removable panel.



LAMP

COMPONENT PARTS



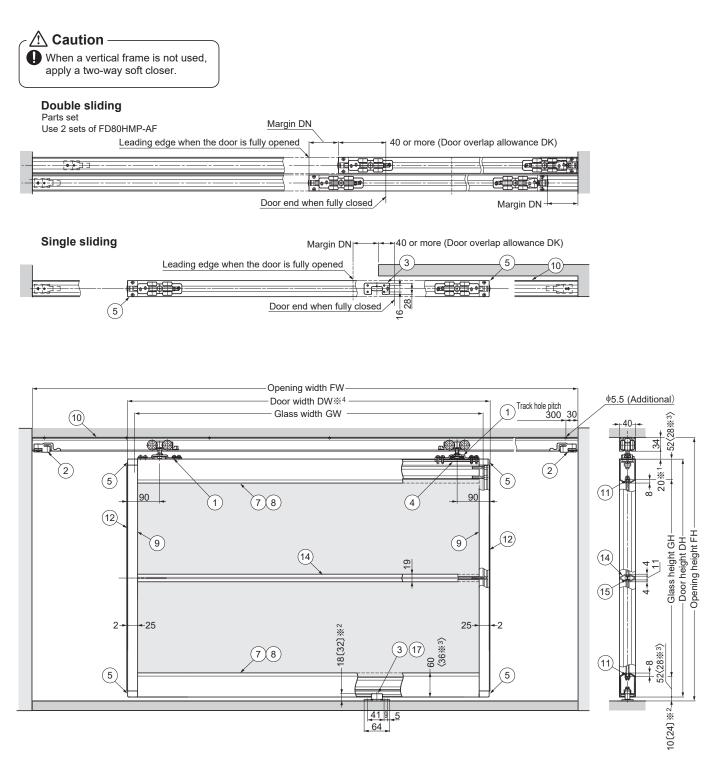


Optional parts				
13 Door stopper (floor mounted) Item No. : FD30-HTKY Accessory : Bind head tapping screw 4×30 Needed when vertical frame is not used.	1 Intermediate support Item No. : AF-25-W03 type 2000 mm	(5) Gasket for Intermediate support Item No.: for 5 mm glass	(B) Handle Item No. :MN799Z160E type It is adhered after drilling two 7 mm dia. holes.	
This is used when larger space below the door is required.	18 Spanner Item No. : FD30-FSP	 (19) Jig set for punches Item No. :AF-25-JIG-SET Item No. :		



INSTALLATION DRAWING (EXAMPLE)

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



[™]¹ Vertical adjustment range : -4 mm to +4 mm.

 \mathbb{X}^2 Dimension in[]: when floor guide L 1 (option) is used.

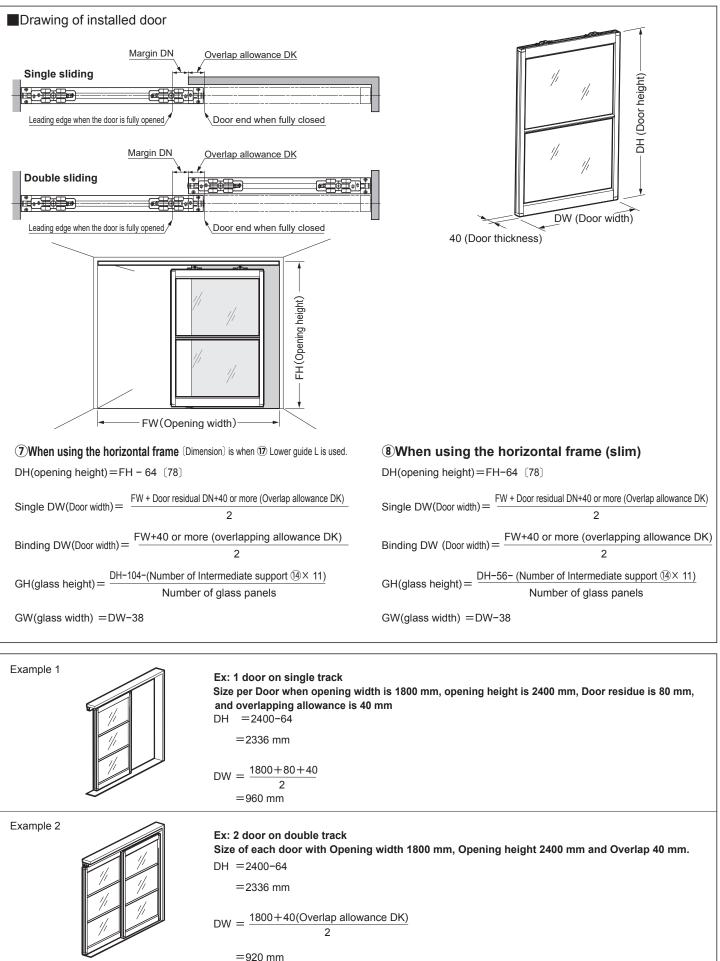
 3^3 Dimension in $\langle \rangle$: when Horizontal frame (For slim type) (3) is used.

 $\%^4$ Door width DW are dimensions including edge covers 2 .



DIMENSIONS OF DOORS

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



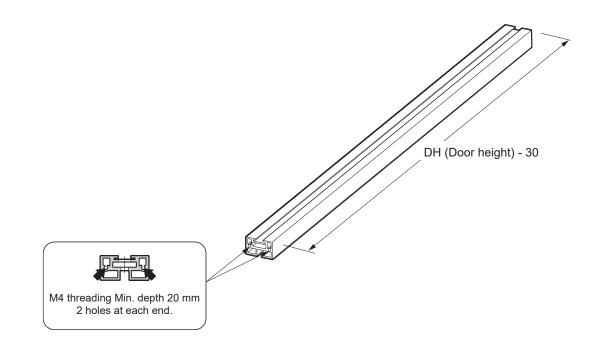
INSTALLATION PROCEDURE In this manual, a single sliding door is used as an example. **1** Cutting and Drilling Components - \land Caution – Cut carefully so the cut edge is square to avoid bias and skewing. When cutting, reinforce the track to prevent deformation at the cut section. 30 [1] Processing of Upper track 10 (1) Length = FW (Opening width) FW (Opening width) ♦5.5 additional hole (2) Refer to the figure on the right for (For track fixing) cutting and drilling holes. / Caution -Remove any dirt or aluminum chips from the track. [2] Processing of Horizontal frame 7,8 ⑦ For horizontal frame 8 For horizontal frame (slim) Length = DW(Door width) - 50(Thickness of vertical frame (9×2) – 4(Edge cover (2×2) DW (Door width) - 54 DW (Door width) - 54 Caution Do not process the C-hole. C-hole (2 places): Both ends, Hall (1 position): Both ends M6 threading min. depth 20 mm M6 threading min. depth 20 mm

[3] Cutting and hole processing of Intermediate support (), when used

Length = DW(Door width) - 50(Thickness of vertical frame (9) × 2) - 4(Edge cover (12) × 2) DW (Door width) - 54

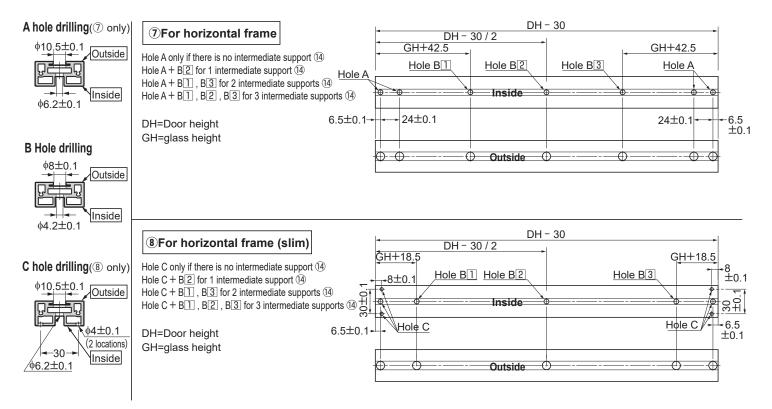
M4 threading min. depth 20 mm: Both ends



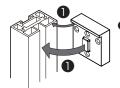


[5] Processing of Vertical frame (9) - Step 2 (for A-hole/C-hole machining)

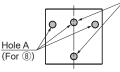
Drill holes according to the quantity of intermediate support.



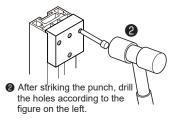
(19) Hole machining using a punch jig (for A-hole/C-hole machining) When using the horizontal frame (slim) (8), jig (19) for punch is recommended.



Hook the jig on the upper edge of the vertical frame and the groove.



Hole A (For ⑦)

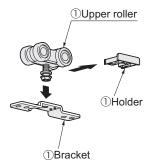




2 Assembling Parts

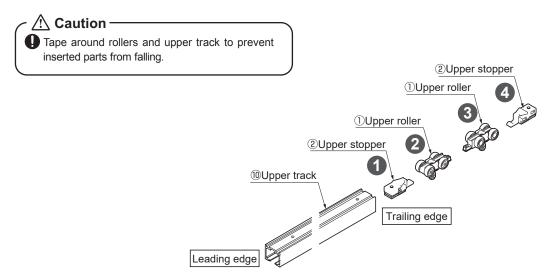
[1] Disassembling Upper rollers $\ensuremath{\mathbb{1}}$

Remove upper roller bracket and holder



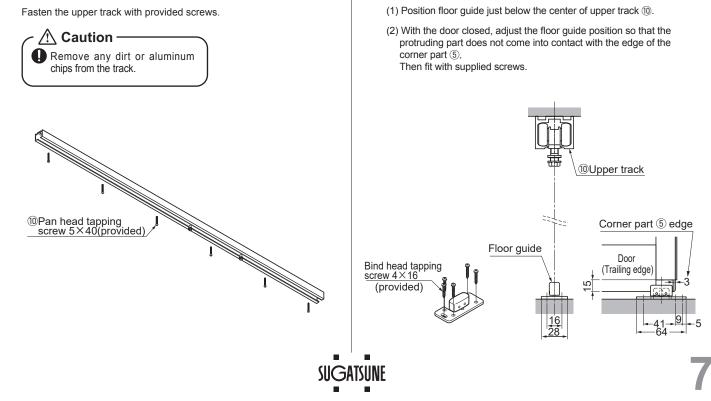
[2] Inserting Parts into Upper Track

Insert the parts in order from 1 to 4.



3 Mounting the Upper Track 10 and Floor Guide

[1] Mounting the Upper track 🔟



[2] Mounting the Floor guide ③

4 Assembling Door

⑦Horizontal frame (upper)

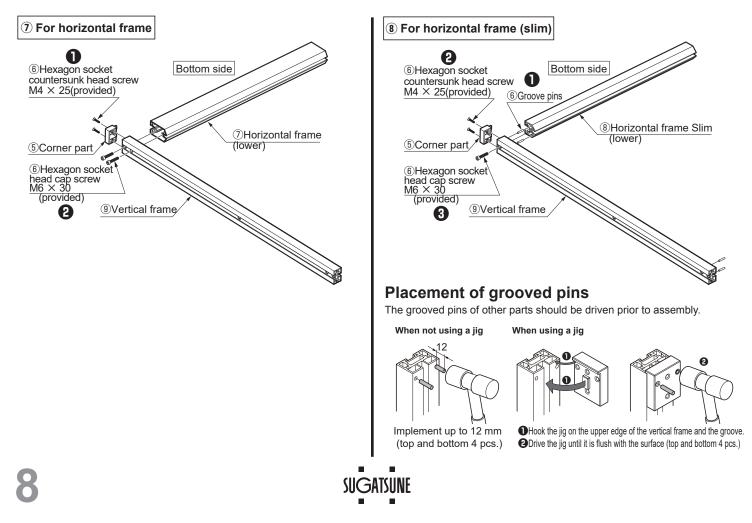
4 Plate nut

▲ Caution Coat screw threads with an anti-backoff material such as "thread locking". N During door installation, handle the glass carefully to prevent injury. [1] Preparation of Horizontal frame(7), 8 - Upper **∧** Caution -Pay attention to the direction of the brackets. The open part of the bracket should face in the outside direction. ⑦ For horizontal frame 8 For horizontal frame (slim) ④ Plain washer 5 (provided) ④ Plain washer 5 (provided) (4) Spring lock washer 5 (provided) (4) Spring lock washer 5 (provided) (4) Hexagon socket button head screw M5 \times 16 (provided) (4) Hexagon socket button head screw M5 × 16 (provided) Hex key (3 mm) Hex key (3 mm) 1)Bracket 63 ①Bracket 8 Horizontal frame Slim (upper)

Fasten the bracket to upper horizontal frame (7, (8), (8), (4), (4)). The distance from the edge and bracket center should be 63 mm.

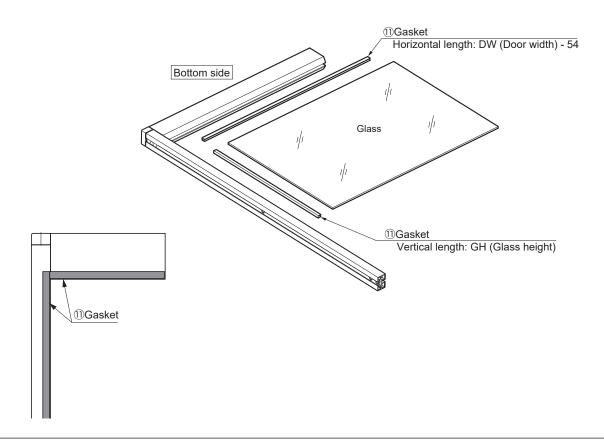
④Plate nut

[2] Assembly of Horizontal frame (), () (lower) and Vertical frame (). () to () indicate the installation steps.)

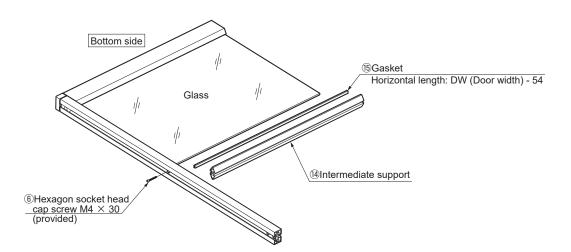


[3] Insertion of glass - Step 1

(The following mounting, adjustment and door removal procedures are explained using the horizontal frame ⑦.)

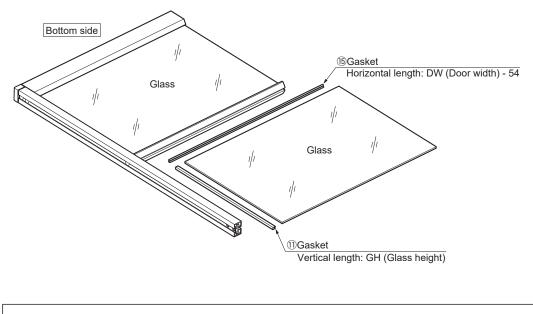


[4] Assembly of Intermediate support (4), when used



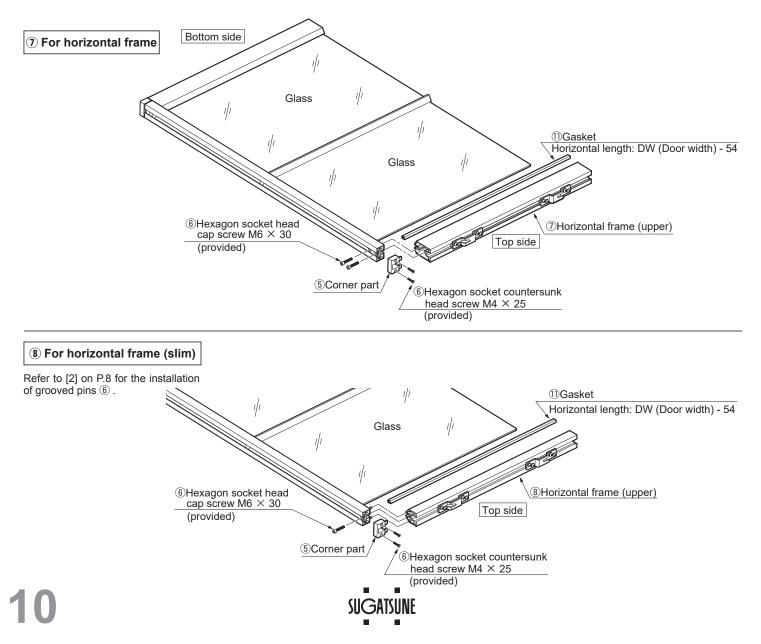


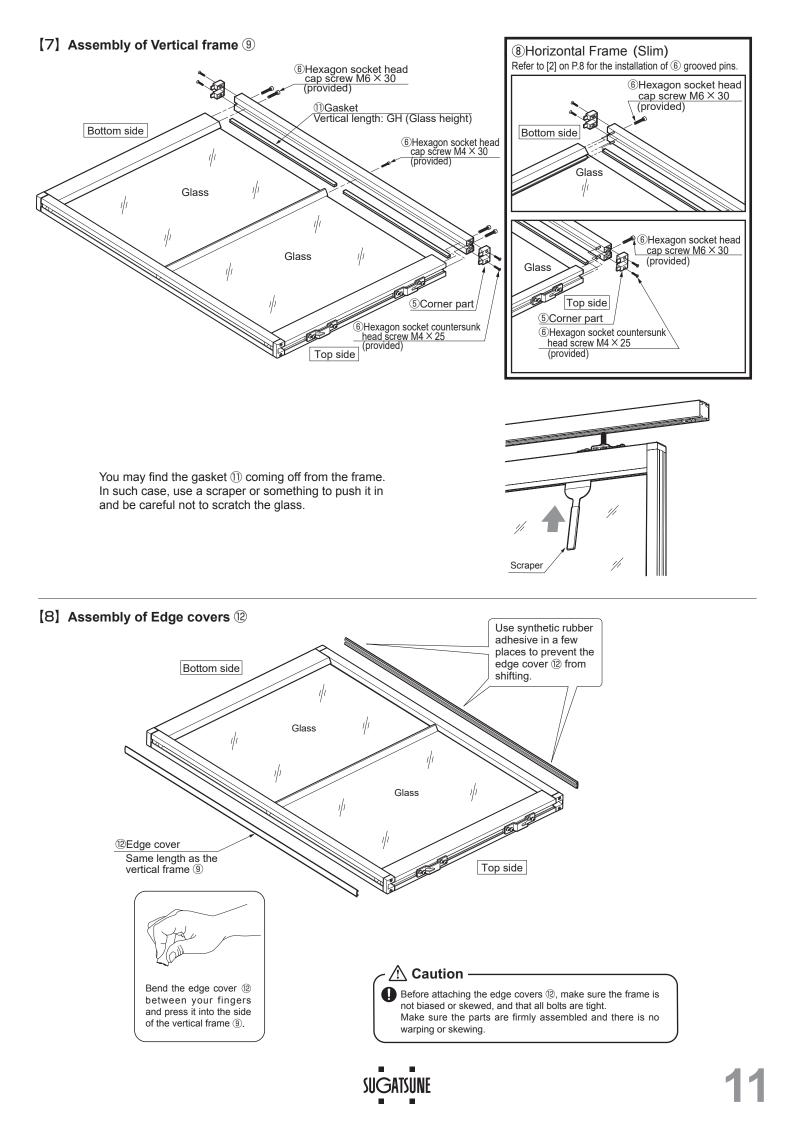
[5] Insertion of glass - Step 2, when Intermediate support is used.



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

[6] Assembly of Horizontal frame 7,8 (upper)

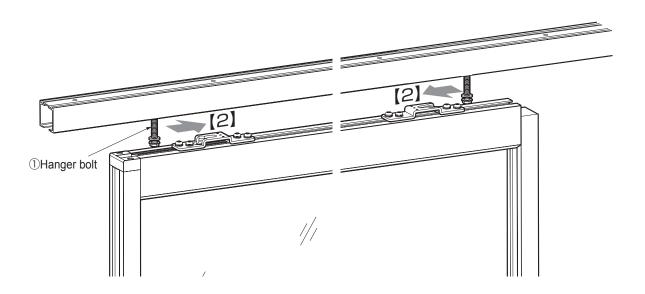




5 Hanging the Door



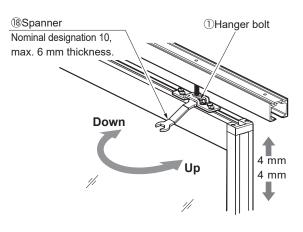
- [1] Put a support below the door to be hanged. Tilt the door as shown in the figure, and set the floor guide S ③ to the groove of the bottom horizontal frame (), ().
- [2] Push the door and set the hanger bolts as shown in the figure below.





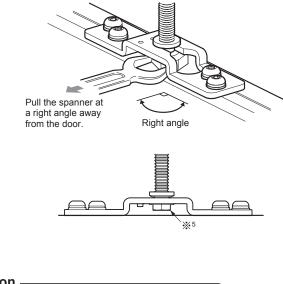
6 Adjustment of Door Height

- [1] Remove the support under the door.
- [2] Adjust the door so that it is parallel to the upper track with 6-14 mm clearance between the door and floor.

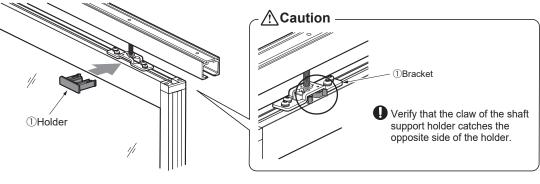


[3] After adjusting the door, pull the wrench at a right angle away from the door.

Make sure the width across flats of the bolt head is as shown in the figure $\%^5$



[4] Insert the holder as shown below.

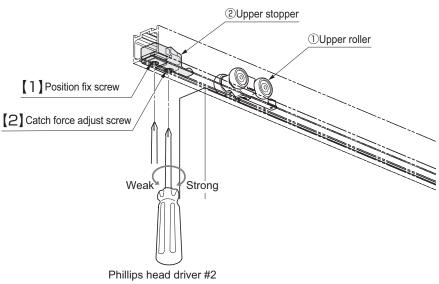


7 Fixing Upper Stopper and Adjustment

[1] Fix upper stopper ② 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.

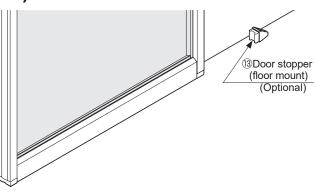
- [2] Using Phillips head driver #2, adjust door catch force by the adjust screw.
- [3] Fix another stopper and adjust it at opposite end in the similar manner.



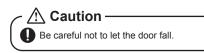


8 Mounting the Door Stopper (Optional)

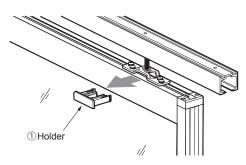
When a vertical frame is not used, use a door stopper 13 of optional.



HOW TO REMOVE DOOR

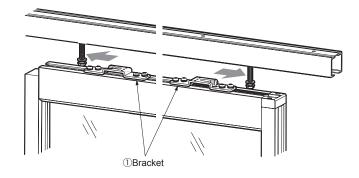


- [1] Put a 10 mm support under the door.
- [2] Pull out the holder.



[4] Remove the door from the floor guide.

[3] Pull out the upper roller from the bracket.



Clean inside of track. PERIODICAL INSPECTION Check upper and lower gaps between the door and frame. If necessary, adjust the gaps.

TROUBLESHOOTING

Trouble	Checkpoint	Solution	
Abnormal noise during operation	Check if door bottom contacts the floor or floor guide.	Verify that the track mounting screws are not loosened. Then, adjust the door height such that the clearance between the door bottom and floor is 6 - 14 mm.	
	Check if door touches adjacent parts.	Adjust the position of floor guide to avoid contact with other objects.	
	Check track rollers for aluminum dust.	Remove the track and pull out the roller. Then, clean the roller.	
	Check the track mounting screws for looseness.	Retighten the screws to free the roller.	
Heavy door operation	Check if door bottom contacts the floor or floor guide.	Verify that the track mounting screws are not loosened. Then, adjust the door height such that the clearance between the door bottom and floor is 6 - 14 mm.	
	Check if door touches adjacent parts.	Adjust the position of floor guide to avoid contact with other objects.	
Door does not move.	Check the track mounting screws for looseness.	Retighten the screws to free the roller.	
Door starts to move.	Check if the upper track is set horizontally.	Using a level gauge, reset the upper track horizontally.	

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