Installation Manual FD80-AFH ALUMINUM FRAME SLIDING DOOR

Surface Mounted Roller, Two-way Soft Close

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.
- Built in soft closer enables two-way soft closing movement in both directions.
- 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 – 270					
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					



 The closing speed of the soft closing type door may change depending on the ambient temperature, operating method or installation quality.

Recommended ambient temperature range 5 to 40°C

FOR YOUR SAFETY AND CORRECT INSTALLATION

Meaning of symbols

Warning Caution



∠!\ Wa	rning	:	lf no	ot f	ollo	wed	, death c	or s	serious injur	y r	nay 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.
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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.

0	Follow the specified dimensions,	specifications,	and alignment of	f the door a	nd 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.

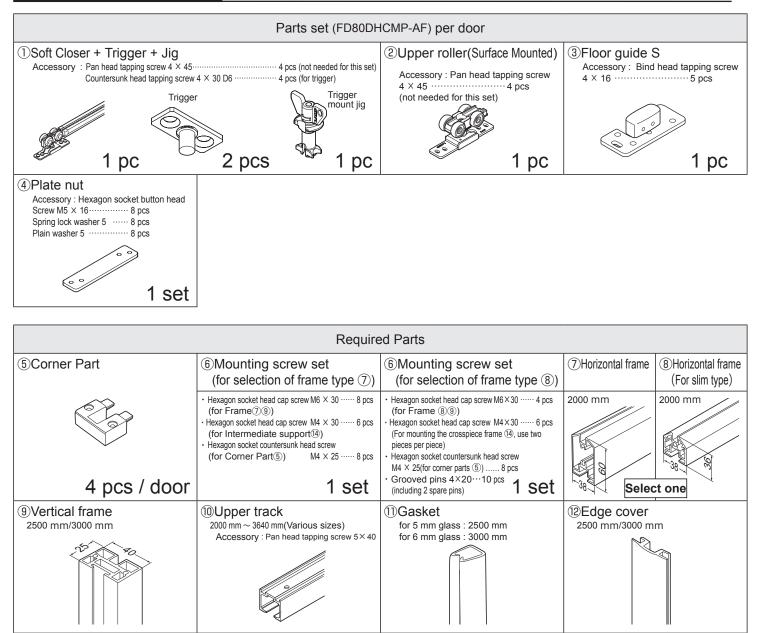
This product is a part for architectural fittings. After installation, please check the function and safety of the final product. Please inform the end user how to use the product safely.

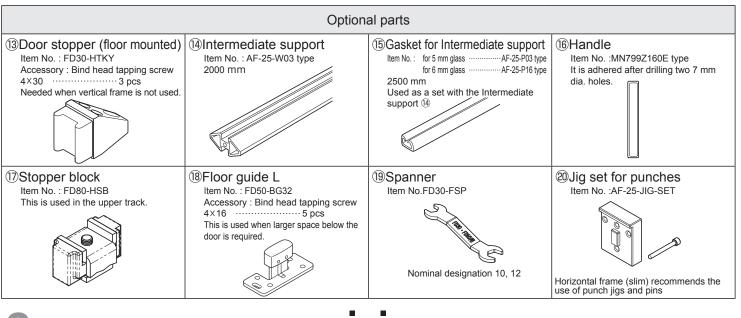
- Make sure to check the screws for slack at regular intervals (one month from first usage, half a year, and then one time every year is recommended).
- $/\!\!\!/$ To avoid damaging of aluminum frame, carry out installation work on clean floor.
- /! Please use the tempered glass. It is recommended to use shatter-proof film on the glass.
- When installing "pocket door" specification, make "easy-maintenance" structure. For example, use removable panel.



Part No. FD80DHCMP-AF

COMPONENT PARTS

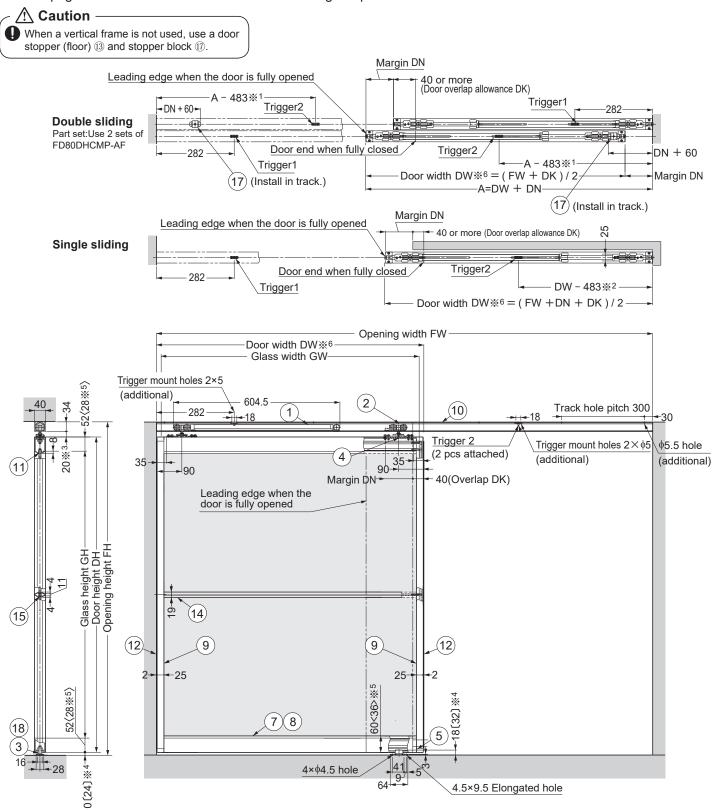




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INSTALLATION DRAWING (EXAMPLE)

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



INSTALLATION DIMENSIONS FOR TRIGGER 2

Please add the Margin DN to dimension for Trigger 2, if you are using a protruding handle. Example shown below.

•	• • •	
DW	^{™1} and ^{™2} [Margin DN = 0 mm] Installation dimension for	*1 [For Double sliding only] Example [Margin DN = 70 mm] DW + DN - 483 is the Installation
	Trigger 2	dimension for Trigger 2
1,000	517	587
1,100	617	687
1,200	717	787
1,300	817	887
1,400	917	987
1,500	1,017	1,087

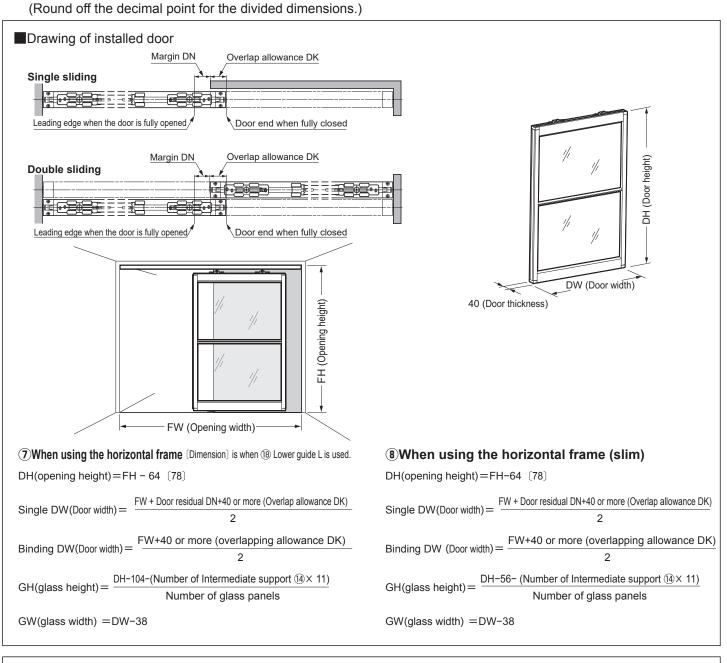
3 Vertical adjustment range : -4 mm to +4 mm.

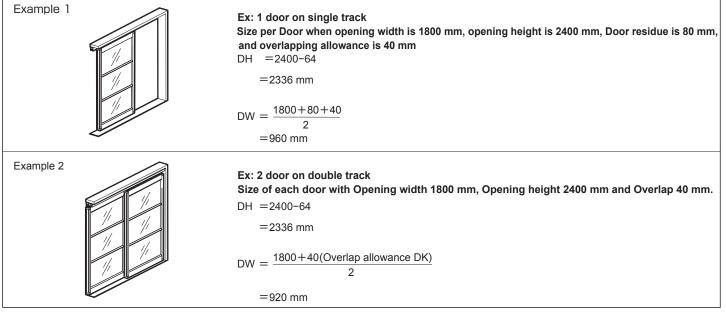
*4 Dimension in [] : when floor guide L ¹ (option) is used.

 $\%^5$ Dimension in $\langle \rangle$: when Horizontal frame (For slim type) (8) is used. $\%^6$ Door width DW are dimensions including edge covers (2).

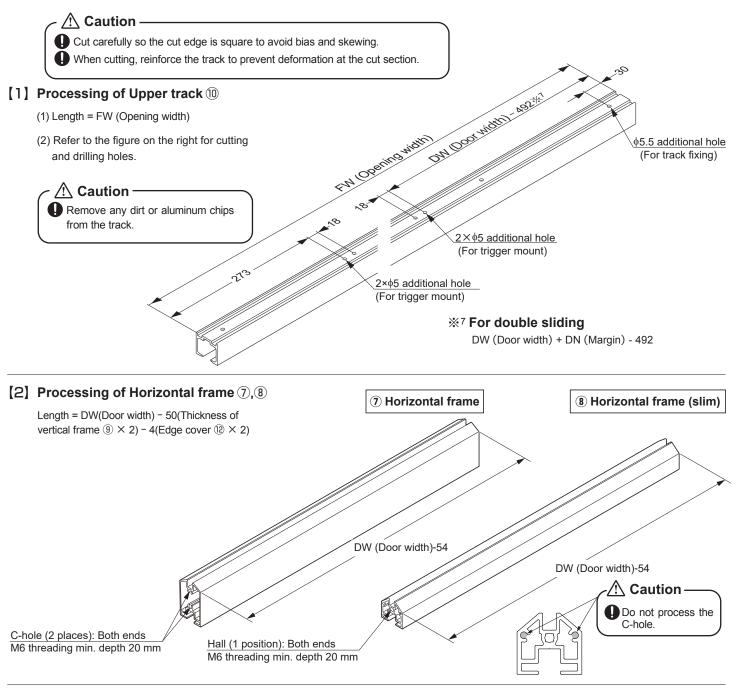


DIMENSIONS OF DOORS

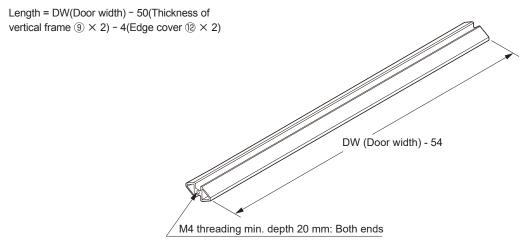




1 Cutting and Drilling Components

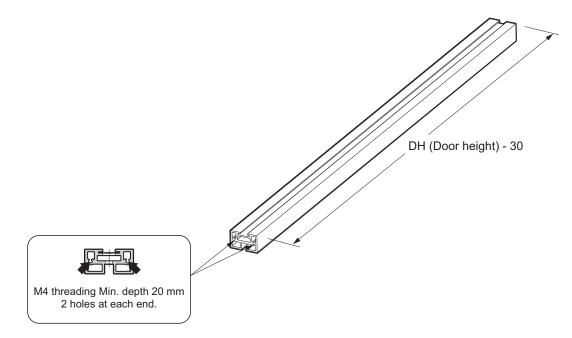


[3] Cutting and hole processing of Intermediate support (4), when used



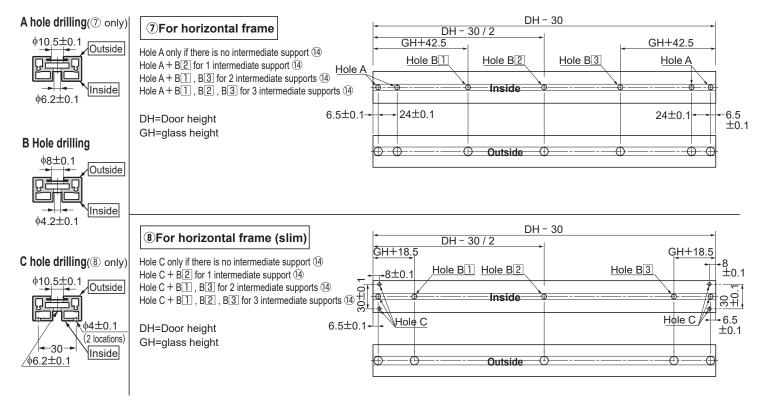


[4] Processing of Vertical frame (9) - Step 1



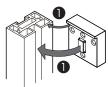
[5] Processing of Vertical frame (9) - Step 2 (for A-hole/C-hole machining)

Drill holes according to the quantity of intermediate support.

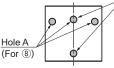


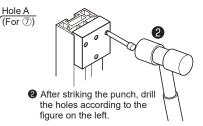
²⁰Hole machining using a punch jig (for A-hole/C-hole machining)

When using the horizontal frame (slim) (8), jig (20) for punch is recommended.



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





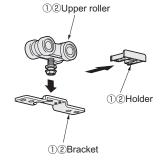


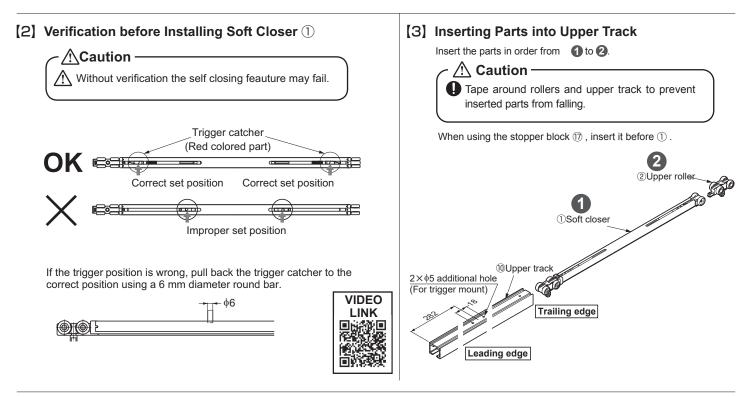


2 Assembling Parts

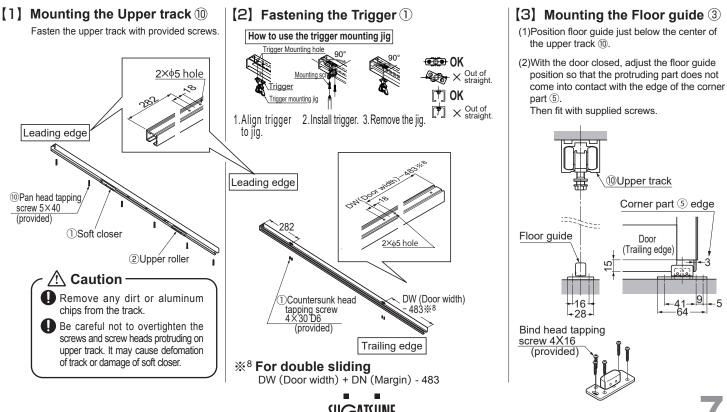
[1] Disassembling Rollers

Remove upper roller bracket and holder.





3 Mounting the Upper Track (0), Trigger (1), and Floor Guide



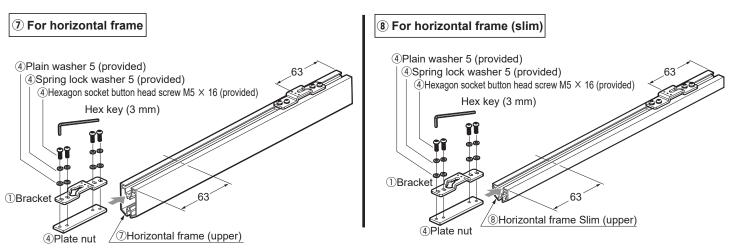
Assembling Door ▲ Caution Coat screw threads with an anti-backoff material such as "thread locking". ▲ During door installation, handle the glass carefully to prevent injury.

[1] Preparation of Horizontal frame (7, 8) - Upper

A Caution -

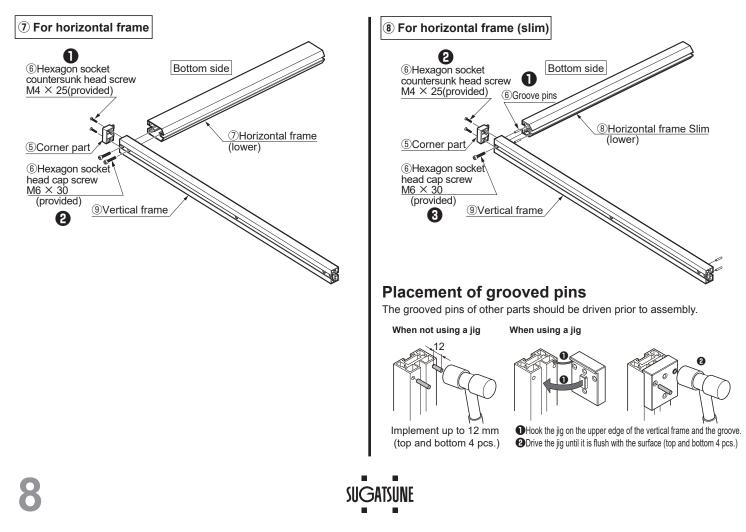
Pay attention to the direction of the brackets.

The open part of the bracket should face in the outside direction.



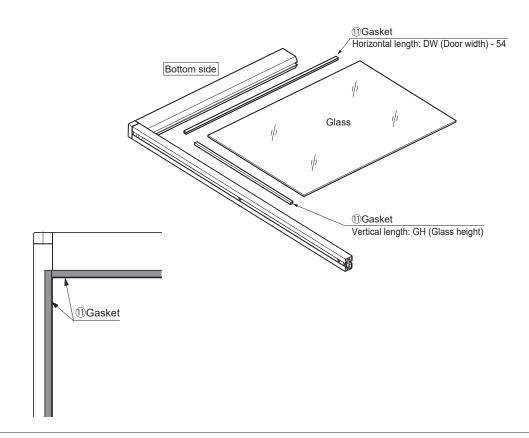
Fasten the bracket to upper horizontal frame $(\mathcal{D}, \circledast)$, using plate nut (4). The distance from the edge and bracket center should be 63 mm.

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

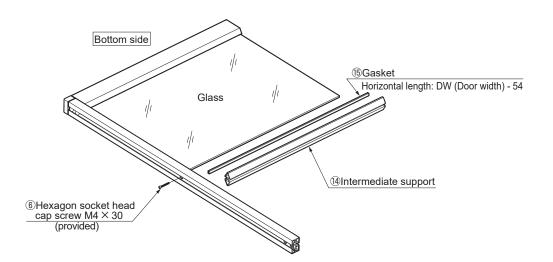


[3] Insertion of glass - Step 1

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

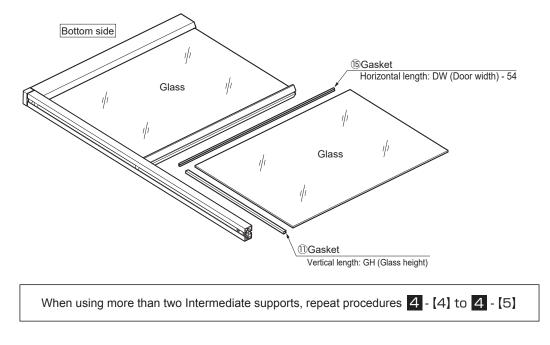


[4] Assembly of Intermediate support (4), when used

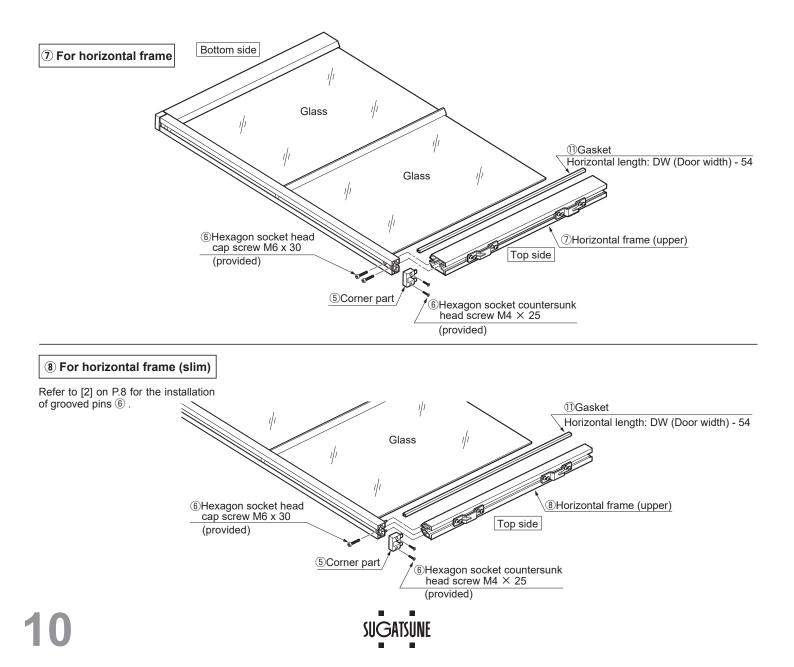




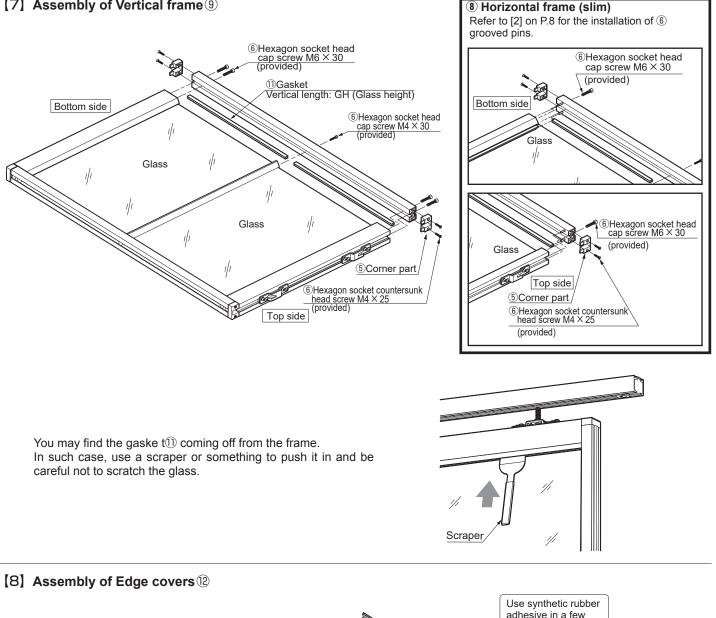
[5] Insertion of glass - Step 2, when Intermediate support is used.

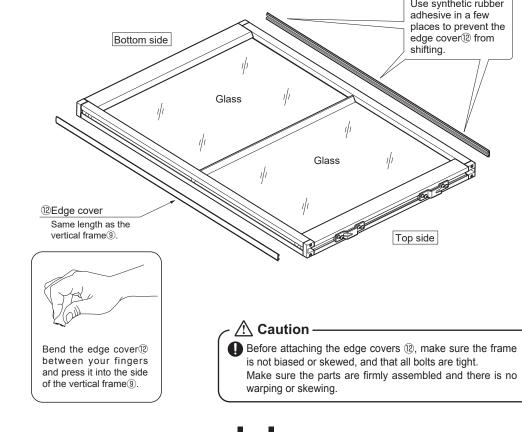


[6] Assembly of Horizontal frame 7,8 (upper)



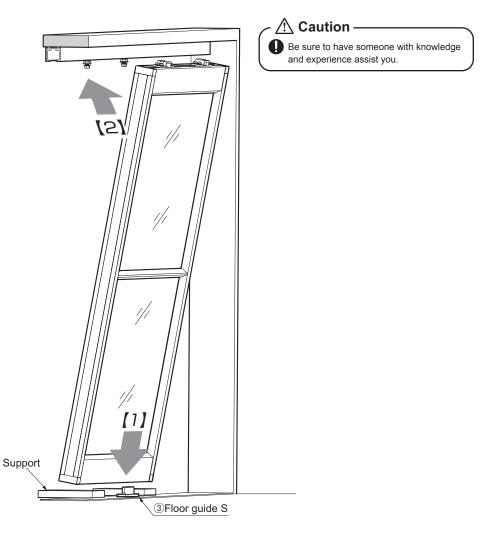




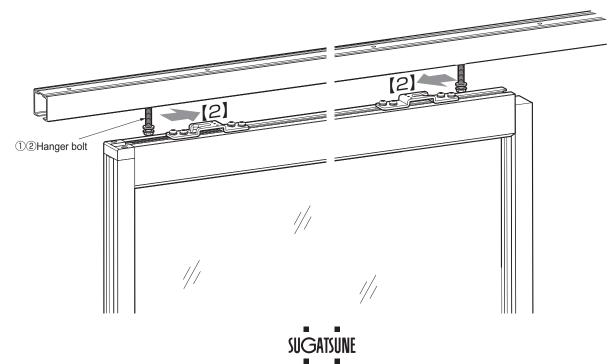


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5 Hanging the Door



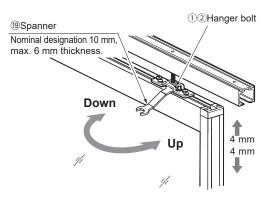
- [1] Put a support below the door to be hanged. Tilt the door as shown in the figure, and set the floor guide S(3) to the groove of the bottom horizontal frame \hat{O} .
- [2] Push the door and set the hanger bolts as shown in the figure below.



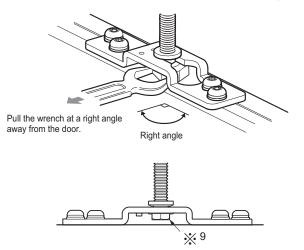
6 Adjustment of Door Height

[1] Remove the support from under the door.

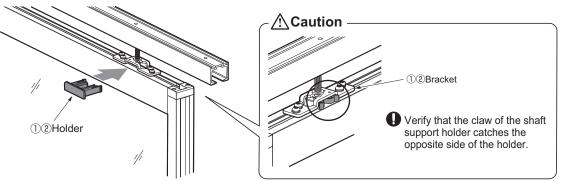
- [2] Adjust the door parallel to the upper track
 - with 6-14 mm clearance between the door and floor.



[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 ^{%9}



[4] Insert the holder as shown below.

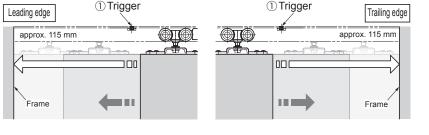


7 Checking Soft Closer Operation

- Close the door slowly and check that the soft closer works correctly. The soft closer is engaged approximately 115 mm at the leading edge before the door reaches its final position.
- [2] Carry out similar verification for the door trailing edge.
- [3] Please refer to the "TROUBLESHOOTING" section when the soft closer does not work correctly.

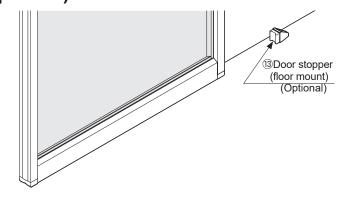
A Caution

O Do not close the door with excessive force. It may cause damage to the soft close mechanism.



8 Mounting the Door Stopper 13 (Optional)

When a vertical frame is not used, use a door stopper $\ensuremath{\textcircled{3}}$ of optional.



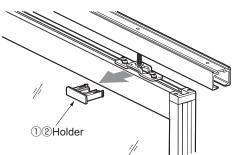


HOW TO REMOVE DOOR

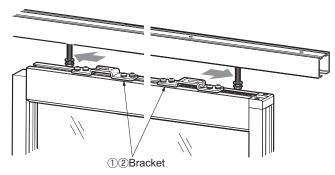


Be careful not to let the door fall.

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



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



[4] Remove the door from the floor guide.

Final verification	Verify that all screws are securely tightened, and verify that all screws have been used.			
	Clean the inside of the track.			
PERIODICAL INSPECTION	Clean the inside of the track. Check the upper and lower space of the door. If necessary, correct the space.			

TROUBLESHOOTING

Trouble	Checkpoint	Solution
Door stops during soft closing	Check if door bottom contacts the floor.	Verify that the track fixing 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 upper track is set horizontally.	Using a level gauge, reset upper track horizontally.
	Check if mohair seal is installed.	Reduce the friction between mohair and door.
No soft closing	Check if trigger is installed.	Install trigger to correct position.
	Check if door is closed by excessive force.	Do not close door by excessive force as it may damage soft closer.
	The position of the trigger catcher may become dislocated (See section 2 - [2] .)	Check the status of the trigger catcher in section 2 - [2].
Abnormal noise during operation	Check if door bottom contacts the floor.	Verify that the track fixing 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.	Correct door position to avoid contact with adjacent objects. 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.	Verify that the track fixing 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.	Correct door position to avoid contact with adjacent objects. Adjust position of the floor guide.
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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