

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.

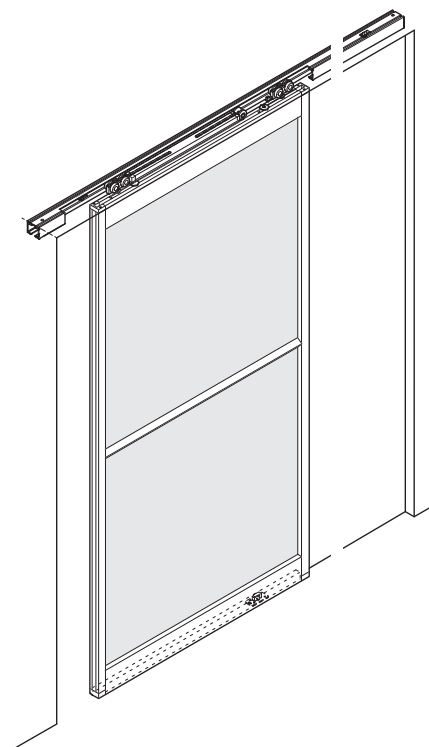
ABOUT THE PRODUCT

- This is a parts set for a heavy duty aluminum frame sliding door system for stores, public facilities and residences.
- Provides the door with a two step soft motion in each direction when opening and closing.
- Recessed mount roller allows a small gap between the track and the door.

SPECIFICATIONS

Required number of intermediate supports ⑭	0	1	2	3
Door height	Max.2200 mm			2201- 2700 mm
Door width	784- 900 mm		901 - 1500 mm	
Glass thickness	5 mm or 6 mm			
Max. Door weight	80 kg / door			
Vertical adjustment	1 mm upward, 4 mm downward			

- The closing speed of the soft closing type door may change due to ambient temperature, operating method or installation quality.
- Recommended ambient temperature range is 5 to 40 degrees centigrade.



FOR YOUR SAFE WORK AND CORRECT INSTALLATION

Meaning of symbols

 Warning Caution	 Prohibited	 Required
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WARNING: If not followed, death or serious injury may result.

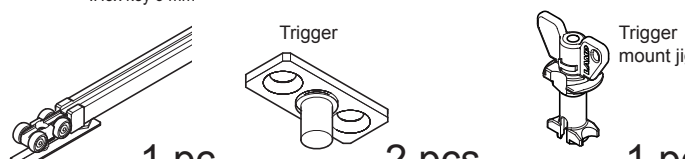
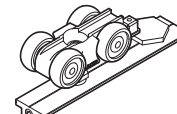
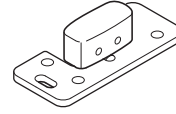
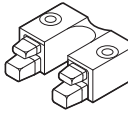
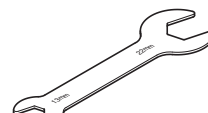
- ❗ This (sliding door system) should be installed by a qualified person. If the system is not installed correctly, the door will not operate smoothly, and may cause injury.
- ❗ It is necessary to manufacture the frame with sufficient strength so that it endures the weight of the door and any impact upon opening/closing the door. Only use designated screws and ensure that they are fastened firmly. A frame with poor strength or loose screws might result in the door falling and causing injury.
- ⊘ Do not try to use this product for anything other than its original purpose. Do not use any part for applications outside of its specification.
- ⊘ Do not disassemble nor modify any parts other than those described in this document.

Caution: If not followed injury or damage may result.

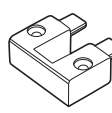
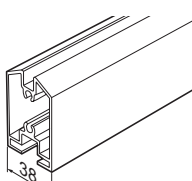
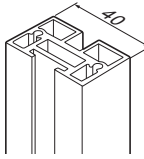
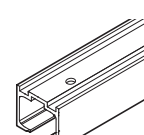
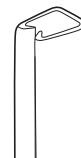

- ❗ Make sure to follow the designated dimensions, specifications, and horizontal/vertical angles. Make sure that the frame is not warped, since it may affect the movement of the door.
- ❗ If cutting any parts, make sure to remove any burrs before installation. Also check the upper track for any left-over burrs or scraps and remove these.
- ❗ This product is a part for architectural fittings. After installation, make sure to test the finished product thoroughly to ensure that it is well-functioning and safe.
- ❗ 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

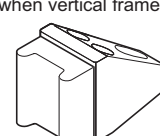
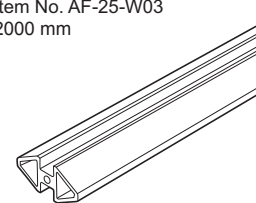
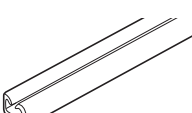

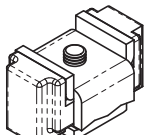
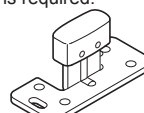
Parts set (FD80DHCHP-AF) per door

<p>① Soft Closer + Trigger + Jig Accessory : Countersunk head tapping screw 4 x 30 D6 4 pcs (for Trigger) : Hex key 3 mm</p>  <p>1 pc 2 pcs 1 pc</p>	<p>② Upper roller Accessory: Hex key 3 mm</p>  <p>1 pc</p>	<p>③ Floor guide S Accessory : Bind head tapping screw 4 x 16 5 pcs</p>  <p>1 pc</p>
<p>④ End cap</p>  <p>2 pcs</p>	<p>⑤ Spanner</p>  <p>1 pc</p>	

Required Parts

<p>⑥ Corner Part</p>  <p>4 pcs / door</p>	<p>⑦ Mount screw set</p> <ul style="list-style-type: none"> • Hexagon socket head cap screw M6 x 30 8 pcs (for Frame ⑧ ⑨) • Hexagon socket head cap screw M4 x 30 6 pcs (for Intermediate support ⑭) • Hexagon socket countersunk head screw M4 x 25 8 pcs (for Corner Part ⑥) <p>1 set</p>	<p>⑧ Horizontal frame 2000 mm</p> 	<p>⑨ Vertical frame 2500 mm/3000 mm</p> 
<p>⑩ Upper track (Various sizes) Accessory : Pan head tapping screw 5 x 40</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 Door stopper (floor) Item No. FD30-HTKY Accessory : Bind head tapping screw 4 x 30 3 pcs Needed when vertical frame is not used.</p> 	<p>⑭ Intermediate support Item No. AF-25-W03 2000 mm</p> 	<p>⑮ Gasket for Intermediate support Item No. : for 5 mm glass AF-25-P03 for 6 mm glass AF-25-P16 2500 mm</p> 	<p>⑯ Handle Item No. WN799Z160E101 It is adhered after drilling two 7 mm dia. holes.</p> 
<p>⑰ Stopper block Item No. FD80-HSB This is used in the upper track</p> 	<p>⑱ Floor guide L Item No. FD50-BG32 Accessory : Bind head tapping screw 4 x 16 5 pcs This is used when larger space below the door is required.</p> 		

INSTALLATION DRAWING (EXAMPLE)

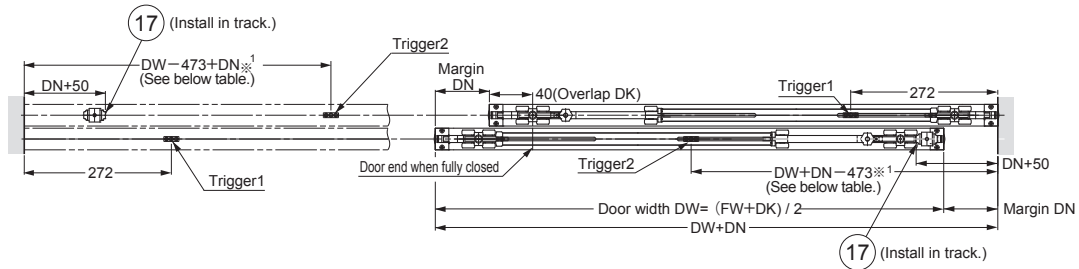
Refer to page 4 about the dimensions of the doors and glass panels.

Caution

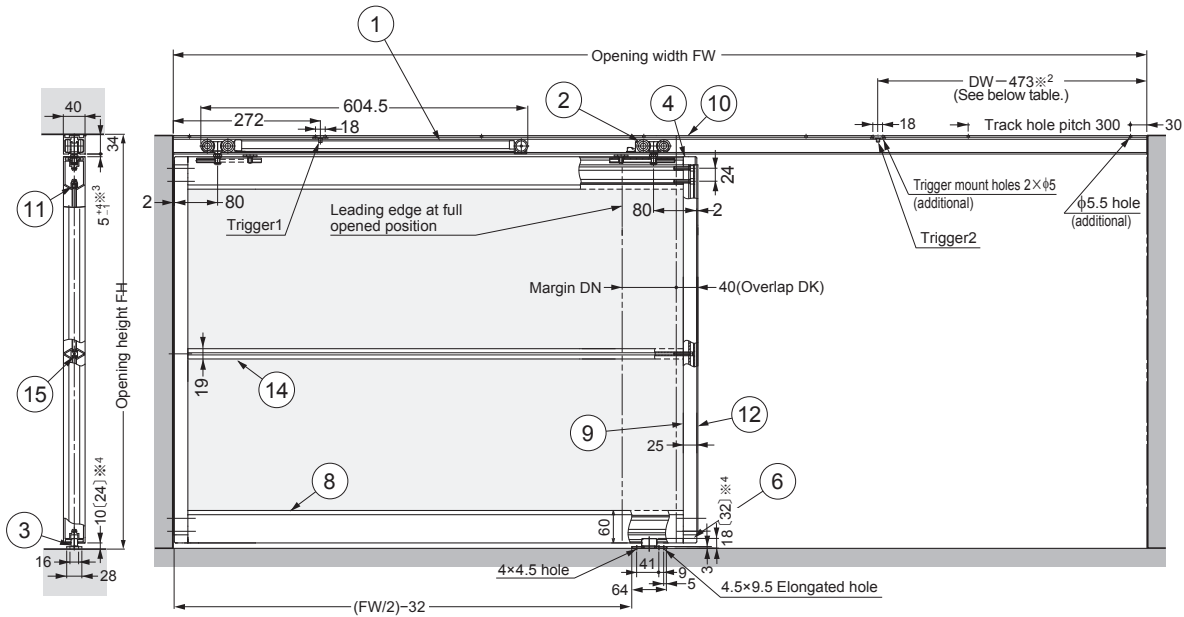
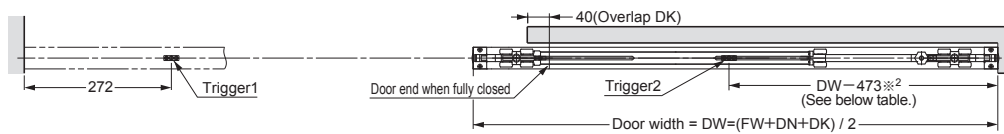
When vertical frame is not used, use a door stopper(floor)⑬ and stopper block⑰

Double sliding

Part set: Use 2 sets of FD80DHCHP-AF



Single sliding



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 [For Double sliding only] Example [Margin DN=70 mm] DW+DN-473 is the Installation dimension for Trigger 2	※2 and ※4 [Margin DN=0 mm] Installation dimension for Trigger 2
1,000	597	527
1,100	697	627
1,200	797	727
1,300	897	827
1,400	997	927
1,500	1,097	1,027

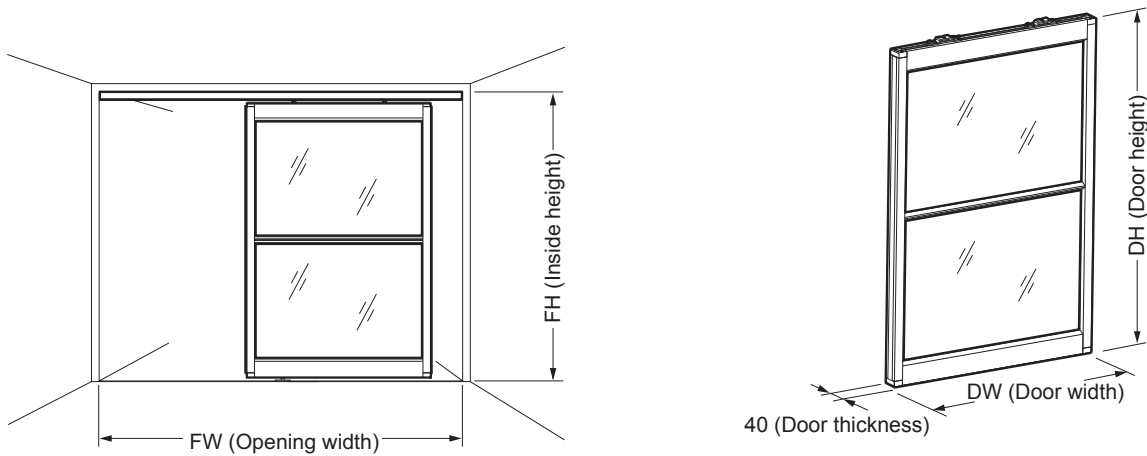
※3 Vertical adjustment range : -4 mm to +1 mm

※4 Dimension in [] : when Floor guide L ⑰ (option) is used

DIMENSIONS OF DOORS

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

Drawing of installed door



$$DH \text{ (Door height)} = FH - 49$$

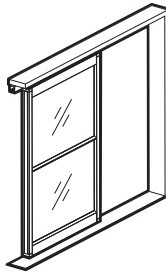
$$\text{Single sliding DW (Door width)} = \frac{FW + DN \text{ (Margin)} + DK \text{ (Overlap)}}{2}$$

$$\text{Double sliding DW (Door width)} = \frac{FW + DK \text{ (Overlap)}}{2}$$

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

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

Example 1



Ex: 1 door on single track

Size of the door when Opening width 1800 mm , Opening height 2100 mm , Margin 80 mm and Overlap 40 mm.

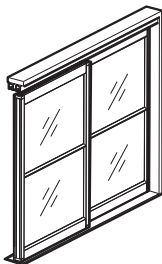
$$DH = 2100 - 49$$

$$= 2051 \text{ mm}$$

$$DW = \frac{1800 + 80 + 40}{2}$$

$$= 960 \text{ mm}$$

Example 2



Ex: 2 doors on double track

Size of each door when Opening width 1800 mm , Opening height 2400 mm and Overlap 40 mm.

$$DH = 2400 - 49$$

$$= 2351 \text{ mm}$$

$$DW = \frac{1800 + 40}{2}$$

$$= 920 \text{ mm}$$

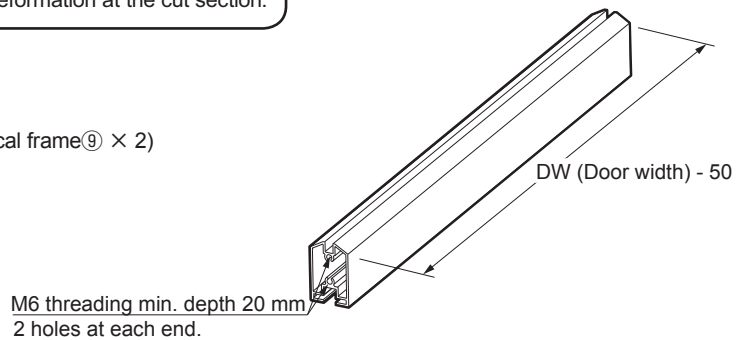
1 Cutting and Hole Processing of Standard Length Parts

⚠ Caution

- ❗ Cut carefully so the cut edge is square to avoid bias and skewing.
- ❗ When cutting, reinforce the track to prevent deformation at the cut section.

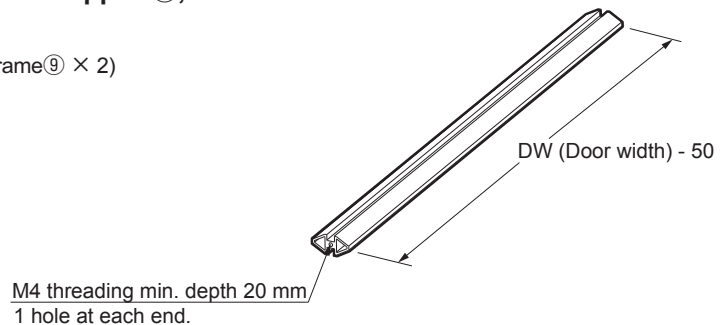
[1] Processing of Horizontal frame^⑧

Length = DW(Door width) - 50 (Thickness of vertical frame^⑨ × 2)



[2] Cutting and hole processing of Intermediate support^⑭, when used

Length = DW(Door width) - 50 (Thickness of vertical frame^⑨ × 2)



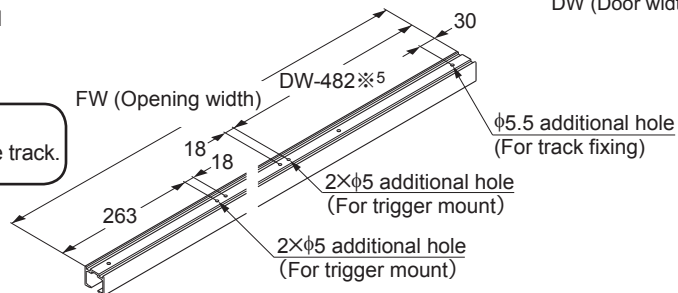
[3] Processing of Upper track^⑩

- (1) Length = FW (Opening width)
- (2) Refer to the figure on the right for cutting and drilling holes.

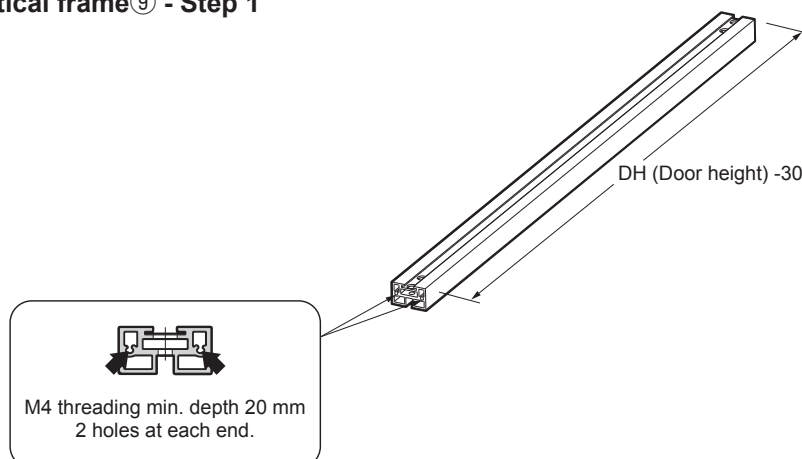
※⁵ For double sliding
DW (Door width) + DN (Margin) - 482

⚠ Caution

- ❗ Remove any dirt or aluminum chips from the track.



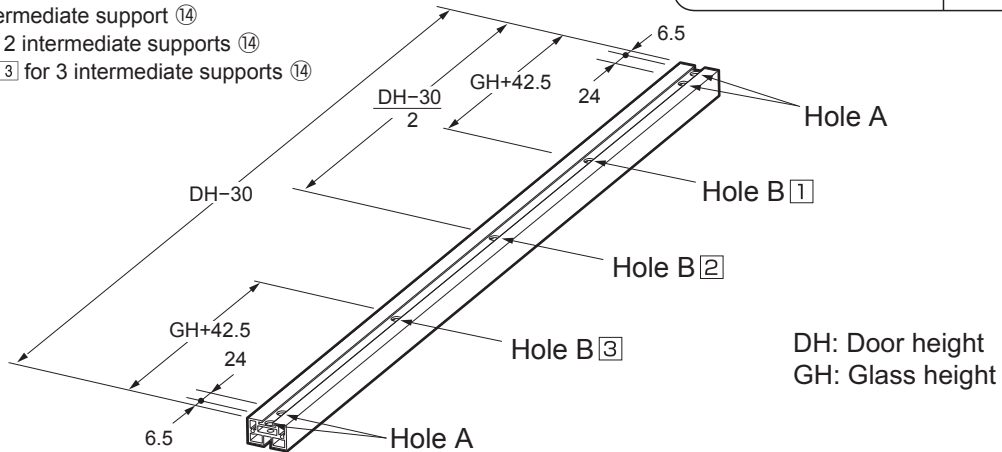
[4] Processing of Vertical frame^⑨ - Step 1



[5] Processing of Vertical frame^⑨ - Step 2

Drill holes according to the quantity of intermediate support ^⑭.

- Hole A only if there is no intermediate support ^⑭
- Hole A + B^② for 1 intermediate support ^⑭
- Hole A + B^①, B^③ for 2 intermediate supports ^⑭
- Hole A + B^①, B^②, B^③ for 3 intermediate supports ^⑭

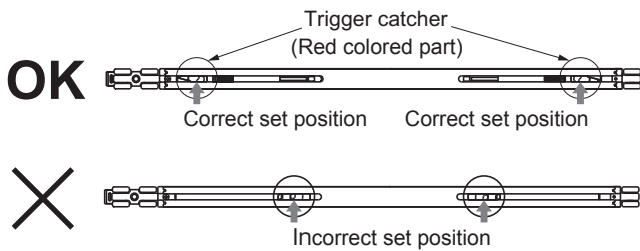


2 Assembling Parts

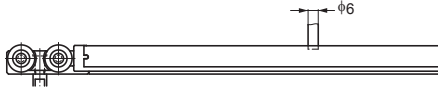
[1] Verification before installing soft closer

⚠ Caution

⚠ Without verification the selfclosing feature may fail.



If the position is wrong, pull back the trigger catcher to the correct position using a 6 mm diameter round bar.

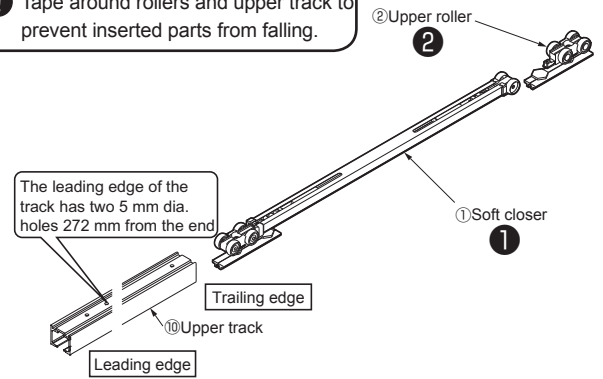


[2] Inserting Parts into Upper Track

Insert the parts in order from ① to ②.

⚠ Caution

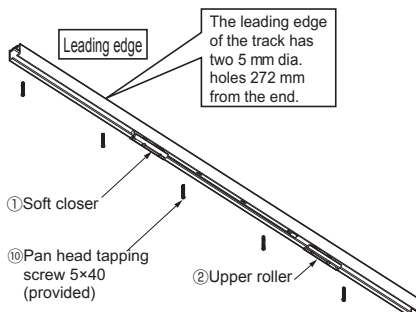
⚠ Tape around rollers and upper track to prevent inserted parts from falling.



3 Fixing Upper Track^⑩, Trigger^①, and Floor Guide

[1] Fixing Upper track ^⑩

Fasten the upper track with provided screws.

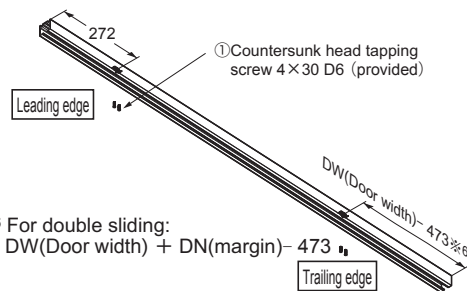
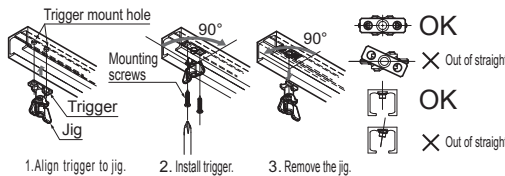


⚠ Caution

- ⚠ Remove any dirt or aluminum chips from the track.
- ⚠ Be careful not to overtighten the screws and screw heads protruding on upper track. It may cause deformation of track or damage of soft closer.

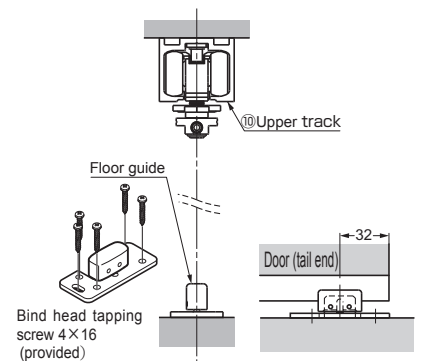
[2] Fixing Trigger ^①

Operation of trigger mounting jig



[3] Fixing Floor guide

- (1) Position floor guide just below the center of upper track.
- (2) Position the floor guide so that the roller part stays under the door. When it is opened or closed.

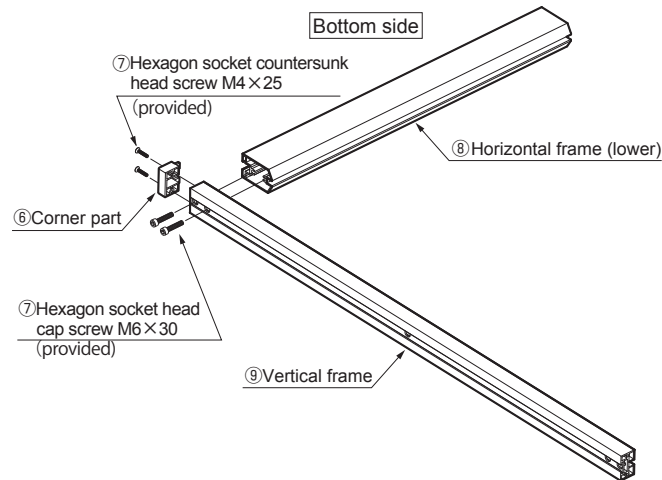


4 Assembling Door

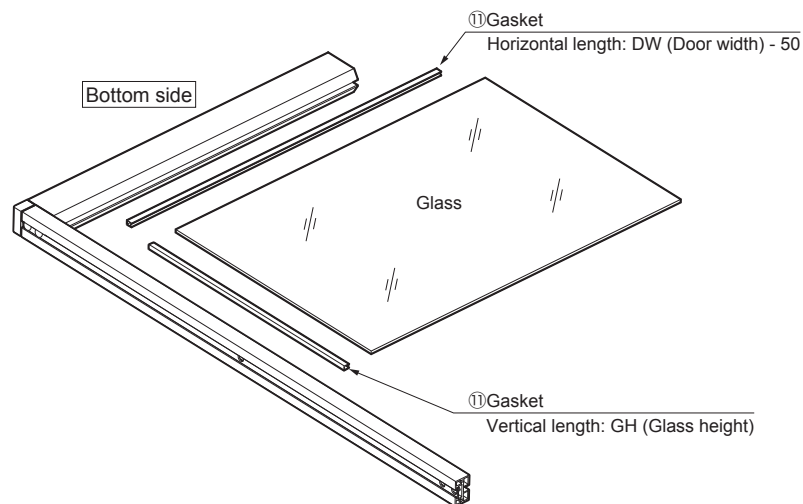
⚠ Caution

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

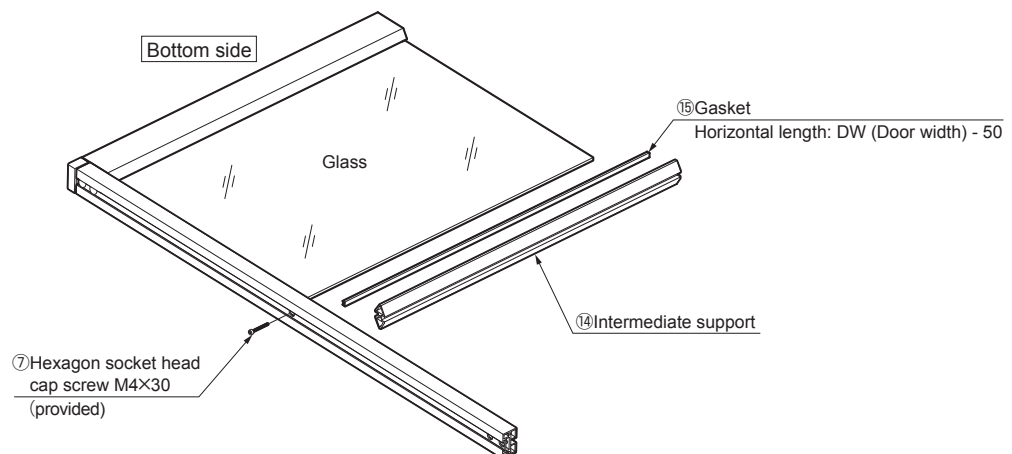
[1] Assembling Horizontal frame ⑧ (lower) and Vertical frame ⑨



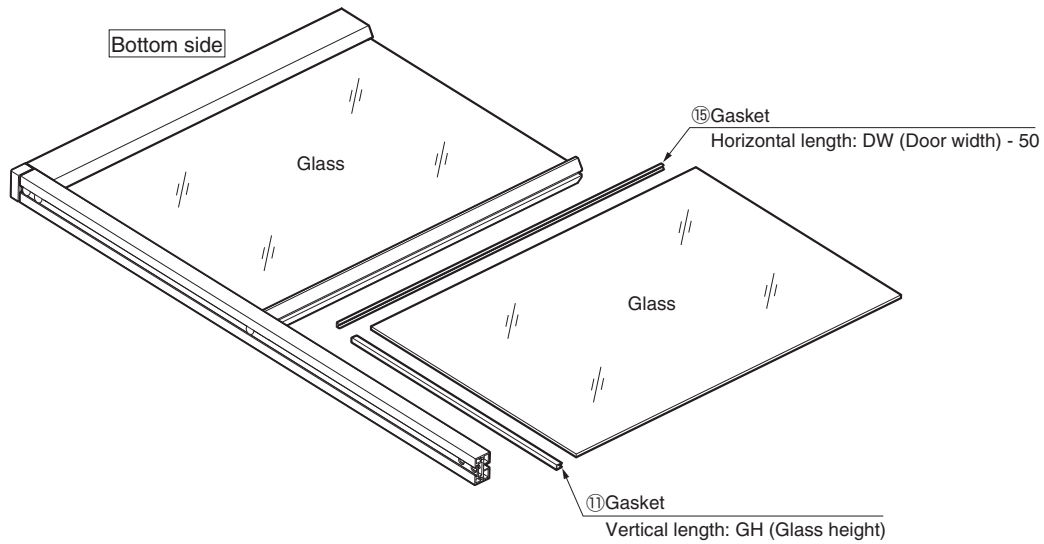
[2] Insertion of glass - Step 1



[3] Assembly of Intermediate support ⑭, when used

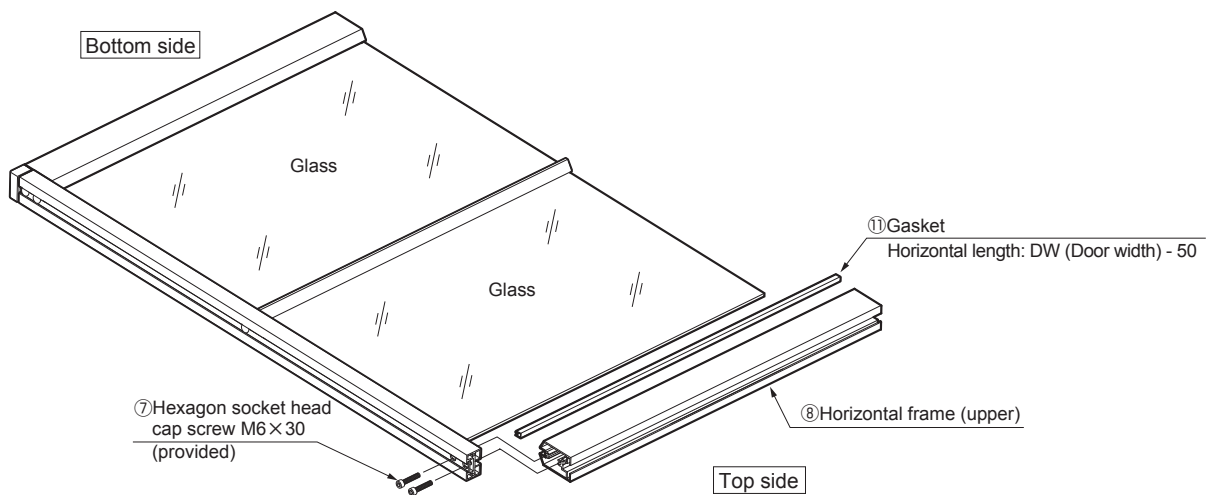


[4] Insertion of glass - Step 2, when Intermediate support is used

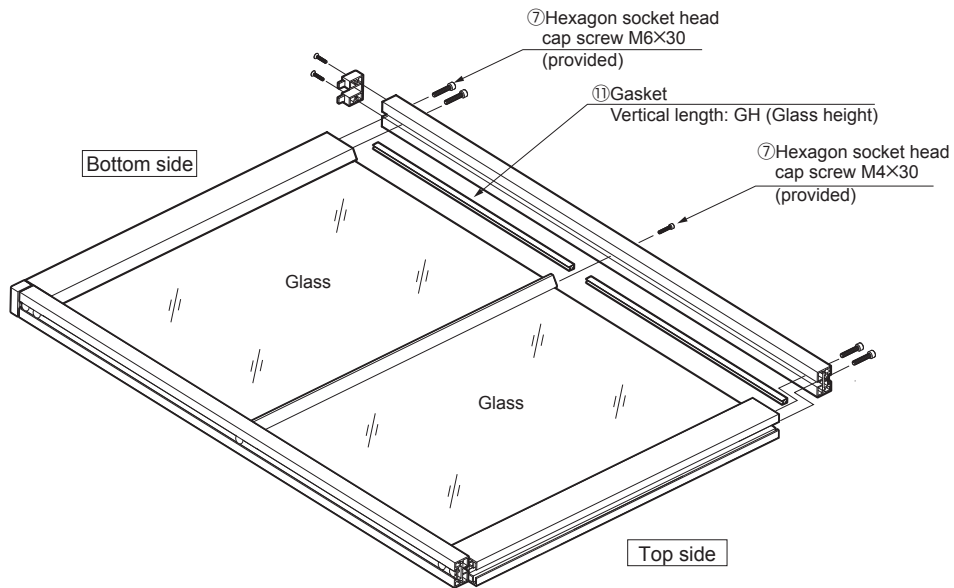


When using more than two Intermediate supports, repeat procedures 4- [4] to 4- [5] .

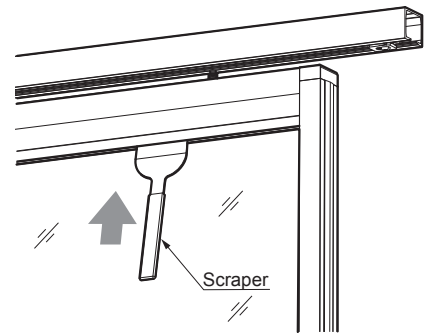
[5] Assembly of Horizontal frame ⑧ (upper)



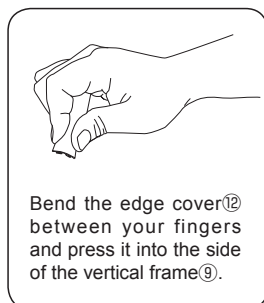
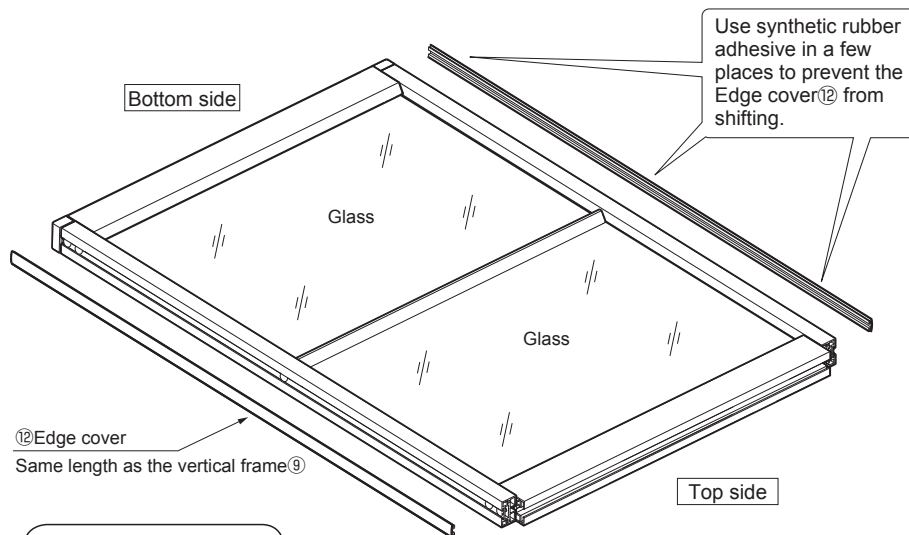
[6] Assembly of Vertical frame^⑨



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



[7] Assembly of Edge covers^⑫



⚠ Caution

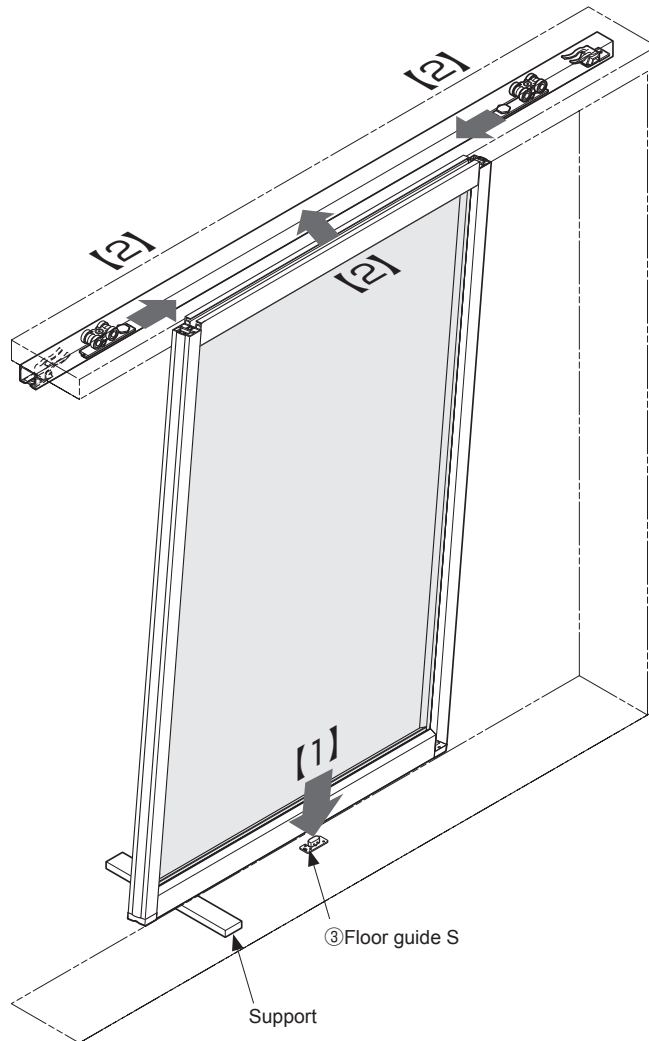
- ❗ Before attaching the Edge covers, make sure the frame is not biased or skewed, and that all bolts are tight. Make sure the parts are firmly assembled and there is no warping or skewing.

5 Hanging the Door

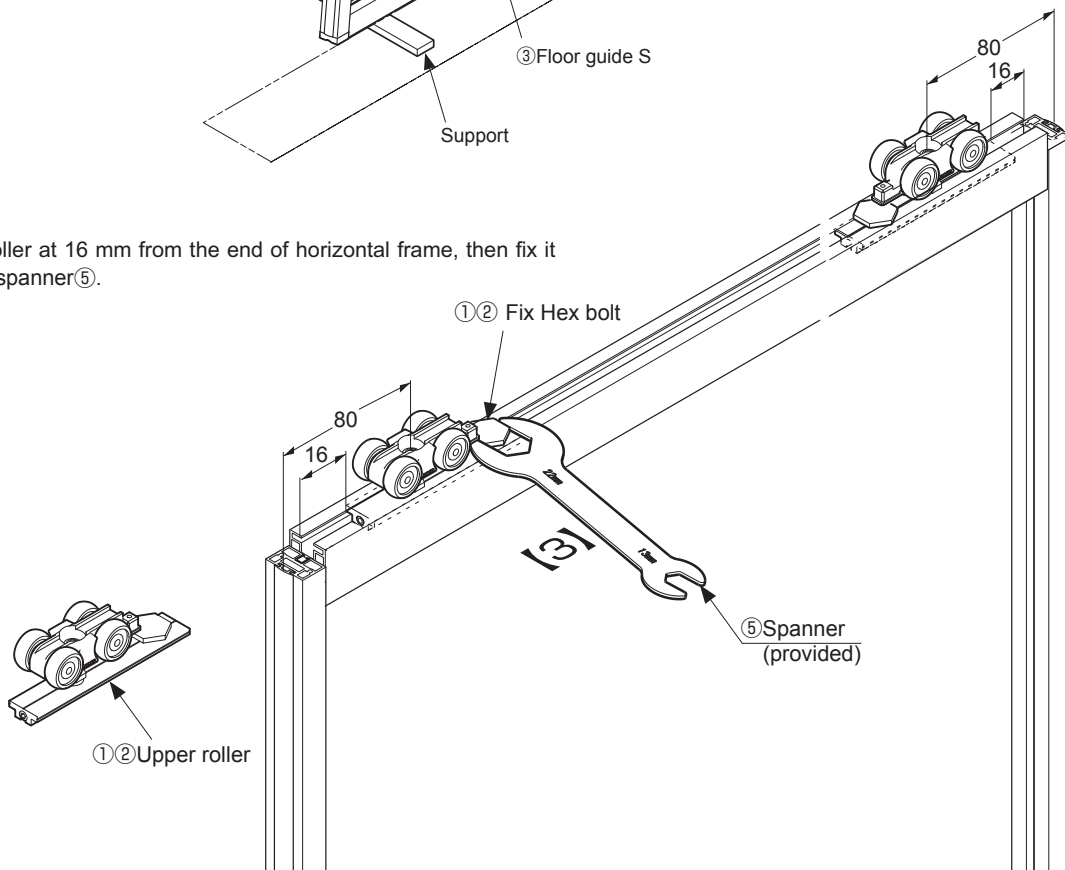
- [1] Put a support below the door to be hanged. Tilt the door as shown in the figure, and set the floor guide S^③ to the groove of the bottom horizontal frame^⑧.
- [2] Insert the fixing plate of the roller in the horizontal frame^⑧ as shown in the figure below.

⚠ Caution

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

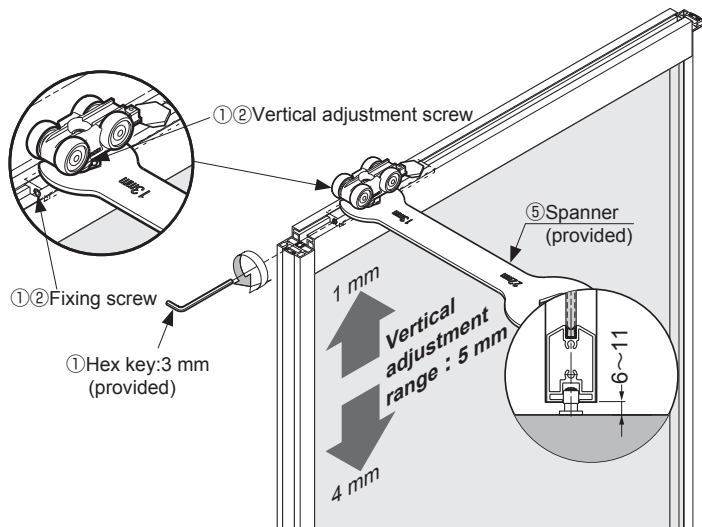


- [3] Position the roller at 16 mm from the end of horizontal frame, then fix it with provided spanner^⑤.

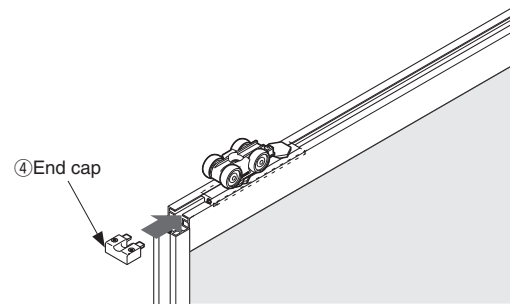


6 Adjustment of Door Height

- [1] Remove the support from under the door.
- [2] Adjust the door with 6-11 mm clearance between door and floor.
Then, tighten the vertical adjustment screw.
- [3] Fix the position with provided hex key.



- [4] Put the End cap④ on both ends of the door.

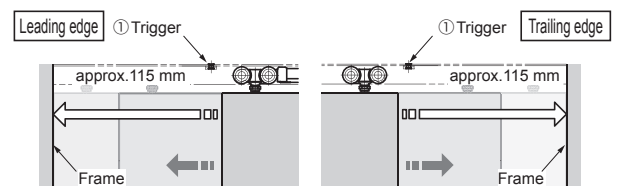


7 Verification of Sliding Door Closer Operation

- [1] 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.

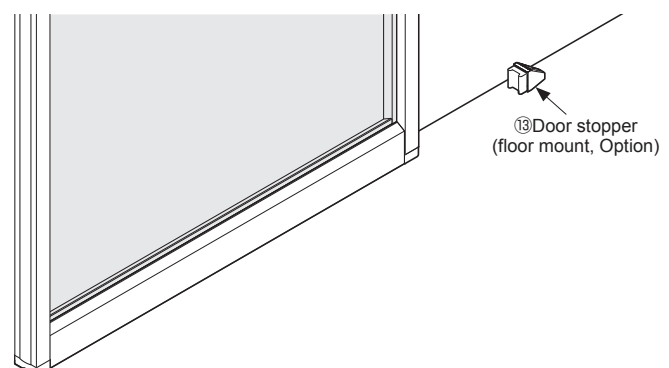
⚠ Caution

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



8 Installing Door Stopper¹³ (Option)

When vertical frame is not used, use a door stopper¹³ of option.

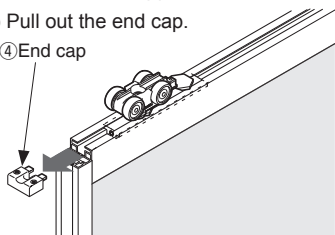


HOW TO REMOVE DOOR

(1) Put a 10 mm support under the door.

(2) Pull out the end cap.

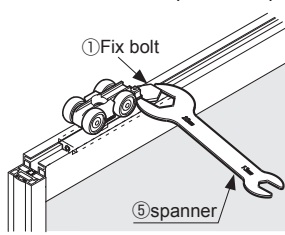
④ End cap



(3) Loosen the fix bolt with provided spanner.

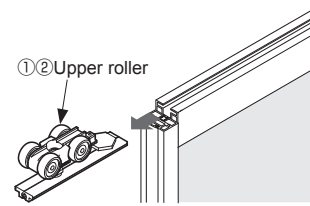
① Fix bolt

⑤ spanner



(4) Pull out the upper roller from the horizontal frame.

① ② Upper roller



(5) Remove the door from the Floor guide.

Final verification Verify that all screws are securely tightened, and verify that all screws have been used.

Periodical Inspection

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

TROUBLESHOOTING

Trouble	Checkpoint	Solution
Door stops during soft closing	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.
	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 trigger catcher may become dislocated. (See section 2 - [1] .)	Check the status of the trigger catcher in section 2 - [1] .
Abnormal noise during operation	Check if door bottom contacts with floor.	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.
	Check if door touches adjacent parts.	Correct the 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 with floor.	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.
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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