# LAMP

# Installation Manual FD80-AFH ALUMINUM FRAME SLIDING DOOR

# Recessed Mount Roller, Two-Way Soft Close

Part No. FD80DHCHP-AF

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.

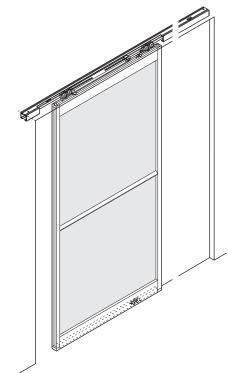
# **ABOUT THE PRODUCT**

- 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.
- Recessed mounted roller allows a small gap between the track and the door.
- There are two types of horizontal frame designs: the standard type and the slim type.

# **SPECIFICATIONS**

Required number of intermediate supports (5)	0 (Without Intermediate support)	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 depending on the ambient temperature, operating method or installation quality.
- · Recommended ambient temperature range is 5 to 40° C.



# FOR YOUR SAFETY WORK AND CORRECT INSTALLATION

#### Meaning of symbols







Required



# WARNING: If not followed, death or serious injury may result.

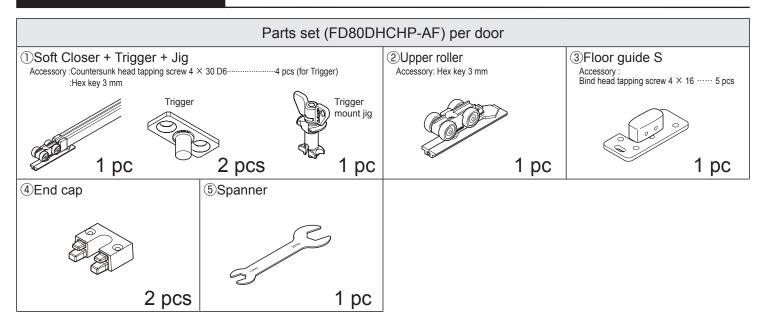
- This product should be installed by a qualified person in accordance with this manual. If it is not installed correctly, the door may fall and cause injury.
- Provide a frame that can withstand the weight and impact of opening and closing the door. Be sure to use the specified screws and tighten them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

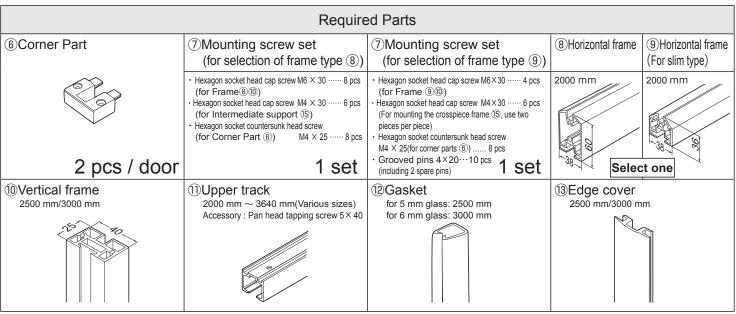
# Caution: If not followed injury or damage may result.

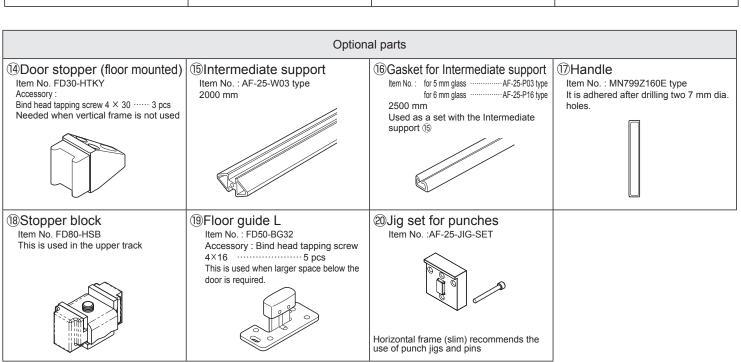
- ① Use tempered glass. Using shatter-proof film is recommended.
- Follow the specified dimensions, specifications, and alignment of the door and frame. Warping, tilting or twisting of the frame or door may cause failure.
- If cutting any parts, make sure to remove any burrs before installation. Also 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**



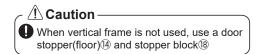


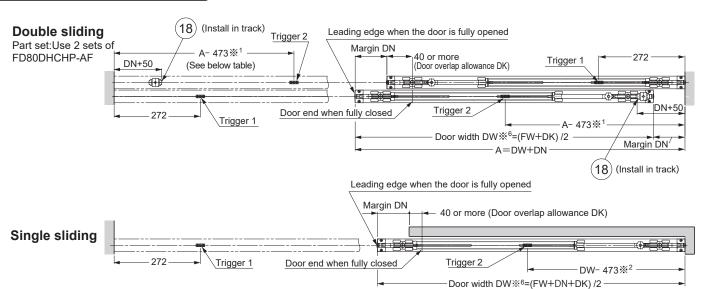


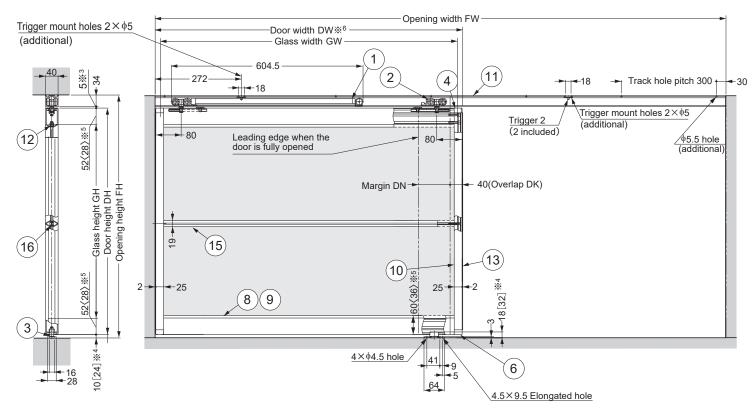


# **INSTALLATION DRAWING (EXAMPLE)**

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.

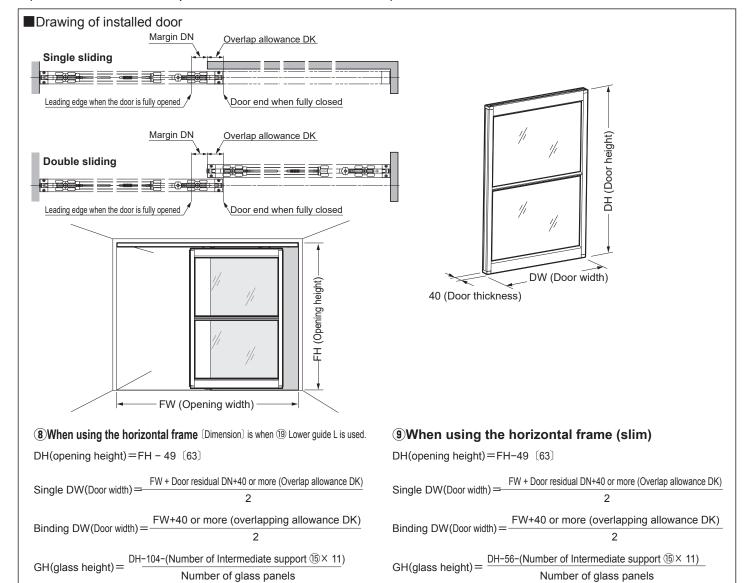
below.					
DW					
1,000	597	527			
1,100	697	627			
1,200	797	727			
1,300	897	827			
1,400	997	927			
1,500	1,097	1,027			

- ¾³ Vertical adjustment range : -1 mm to +4 mm.
- $\%^4$  Dimension in [ ] : when floor guide L 9 (option) is used.
- $\%^5$  Dimension in  $\ \langle \ \ \rangle \$  : when Horizontal frame (For slim type)  $\ \, \textcircled{9}$  is used.
- %<sup>6</sup> Door width DW are dimensions including edge covers <sup>(3)</sup>.



# **DIMENSIONS OF DOORS**

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



# Example 1 Example 2

GW(glass width) = DW-38

Ex: 1 door on single track

Size per Door when opening width is 1800 mm, opening height is 2200 mm, Door residue is 80 mm, and overlapping allowance is 40 mm

GW(glass width) = DW-38

$$DW = \frac{1800 + 80 + 40}{2}$$
= 960 mm

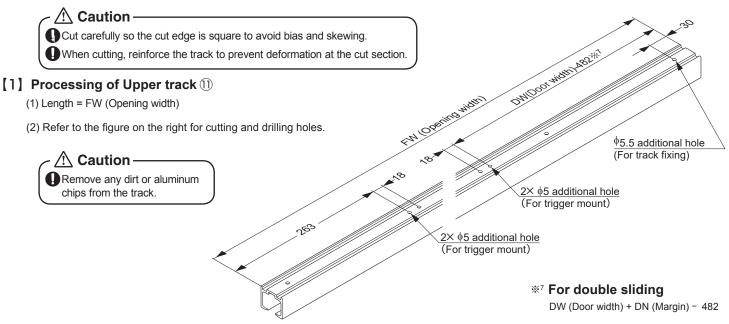


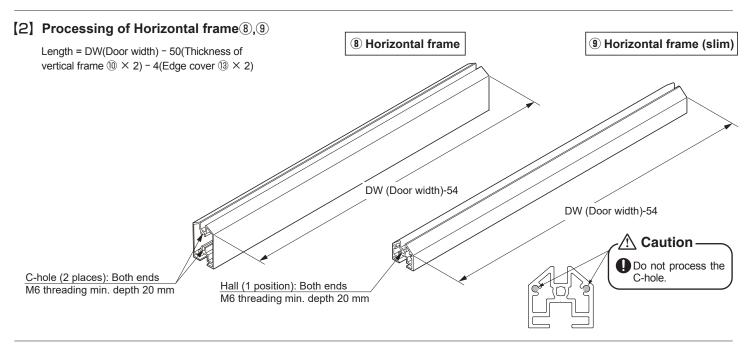
Ex: 2 door on double track

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

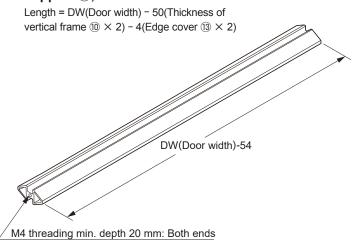
$$DW = \frac{1800 + 40(Overlap \text{ allowance DK})}{2}$$
= 920 mm

# 1 Cutting and Drilling Components

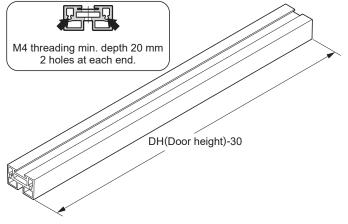


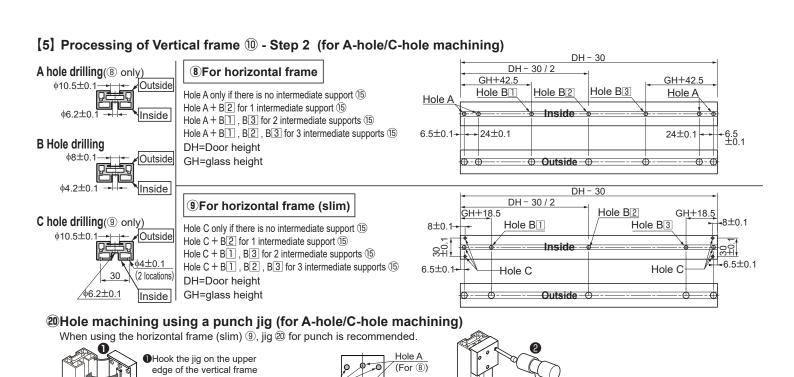


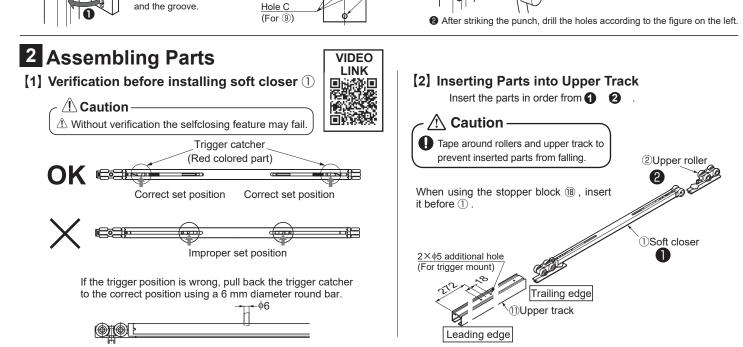
# [3] Cutting and hole processing of Intermediate support (5), when used



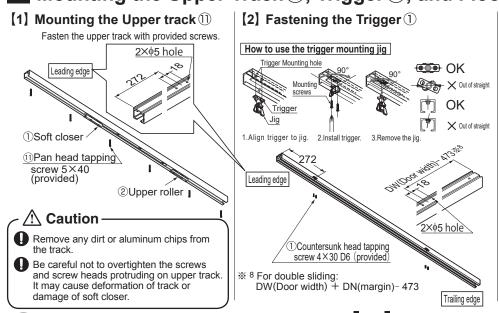
### [4] Processing of Vertical frame 10 - Step 1





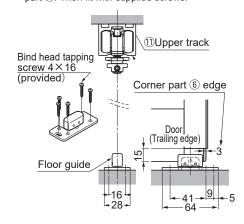






# (3) Mounting the Floor guide ③

- (1)Position floor guide just below the center of the upper track ①.
- (2)With the door closed, adjust the floor guide position so that the protruding part does not come into contact with the edge of the corner part (a). Then fit with supplied screws.

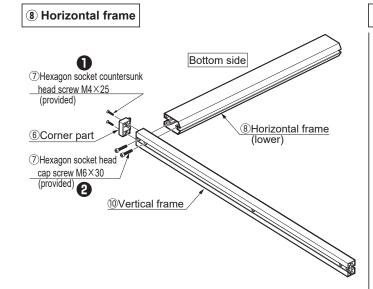


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# 4 Assembling Door

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

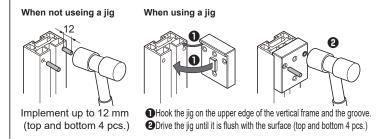
# [1] Assembly of Horizontal frame (8), (9) (lower) and Vertical frame (10)



# (a) Horizontal frame (slim) (b) Hexagon socket countersunk head screw M4×25 (provided) (provided) (a) Horizontal frame (lower) (lower) (provided) (a) Horizontal frame (lower) (provided) <

# Placement of grooved pins

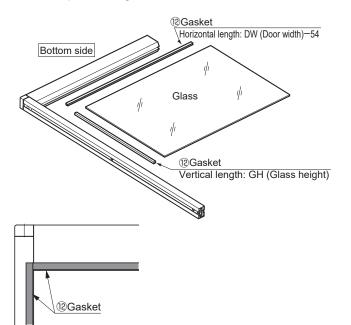
The grooved pins of other parts should be driven prior to assembly.



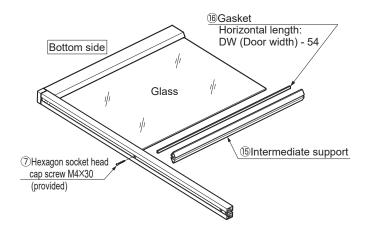
The following mounting, adjustment and door removal procedures are explained using the horizontal frame (8).

# [2] Insertion of glass - Step 1

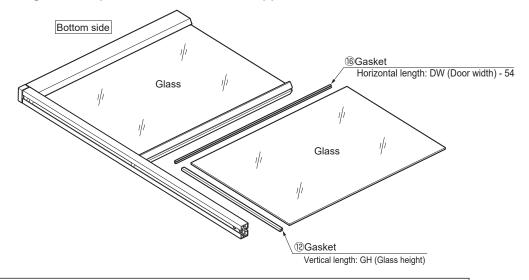
(The following mounting, adjustment and door removal procedures are explained using the horizontal frame \$.)



### (3) Assembly of Intermediate support (5), when used

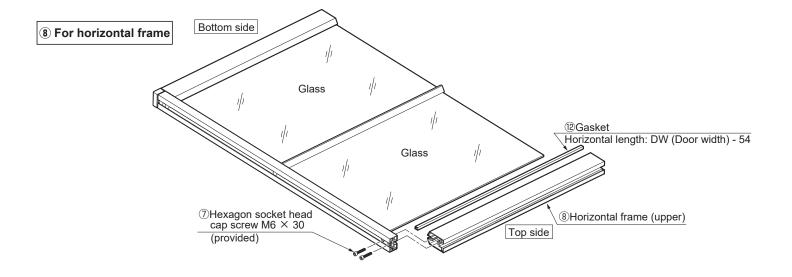


# [4] Insertion of glass - Step 2, when Intermediate support is used



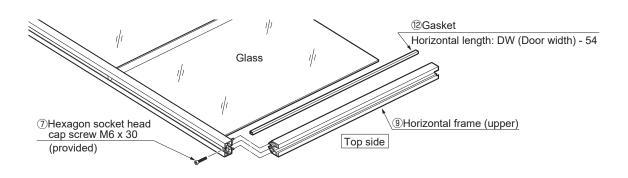
When using more than two Intermediate supports, repeat procedures 4-[3] to 4-[4].

# [5] Assembly of Horizontal frame 8,9 (upper)



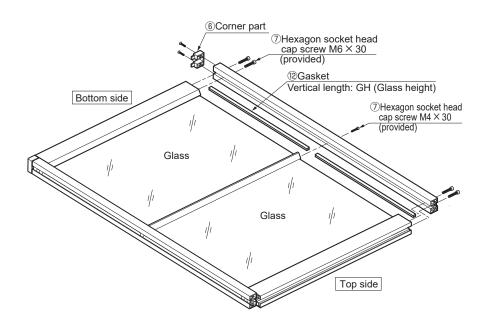
## 9 For horizontal frame (slim)

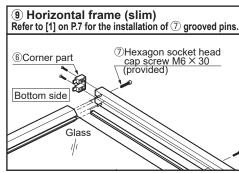
Refer to [1] on P.7 for the installation of grooved pins  ${\mathfrak T}$  .

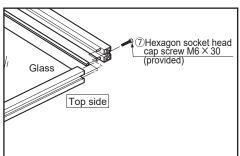




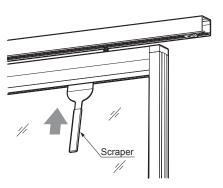
# [6] Assembly of Vertical frame 10

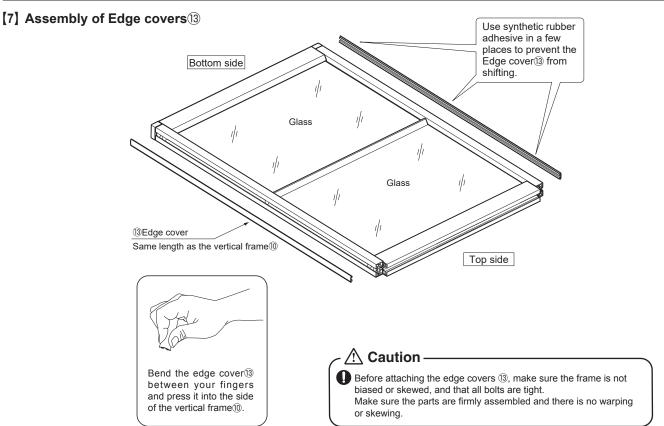






You may find the gasket @ coming off from the frame. In such case, use a scraper or something to push it in and be careful not to scratch the glass.





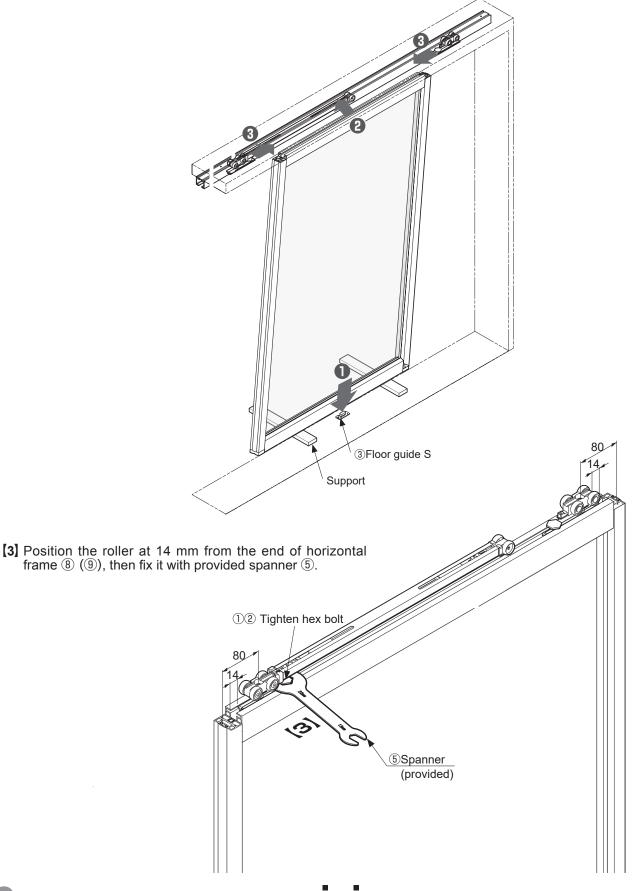


# **5** Hanging the Door

[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 (3) (9).

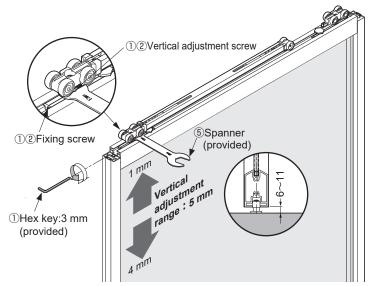
Be sure to have someone with knowledge and experience assist you.

(2) Insert the fixing plate of the roller in the horizontal frame (8) (9) as shown in the figure below.

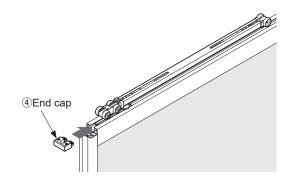


# 6 Adjustment of Door Height

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

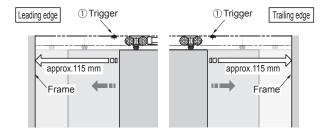


[4] Put the end cap 4 on both ends of the door.



# 7 Checking Soft Closer Operation

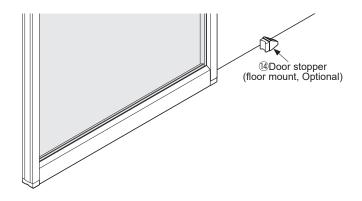
- [1] Close the door slowly and check that the soft closer works correctly.
  - The soft closer is engaged approximately 115 mm at the leading edge before the door reaches its final position.
- [2] Carry out similar verification for the door trailing edge.
- [3] Please refer to the "TROUBLESHOOTING"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





# 8 Mounting the Door Stopper (Optional)

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

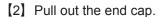


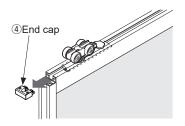


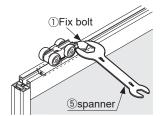
# **HOW TO REMOVE DOOR**

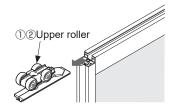
Be careful not to let the door fall.

- [1] Put a 10 mm support under the door.
- (3) Loosen the fix bolt with provided spanner.
- [4] Pull out the upper roller form the horizontal frame.









[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 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 or floor guide.	Verify that track mounting 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 the upper track horizontally.
	Check if mohair seal is installed.	Reduce the friction between the mohair seal and door.
No soft closing	Check if trigger is installed.	Install trigger to specified position.
	Check if door is closed by excessive force.	Do not close door by excessive force as it may damage the soft closer.
	The position of the trigger catcher in page 6 section 2 may become dislocated. (It is hidden as installed in upper track.)	Remove the door and the upper track, then check the status of the trigger catcher in section 2.
Abnormal noise during operation	Check if door bottom contacts with floor or floor guide.	Verify that track mounting 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.	Adjust position of the floor guide to avoid contact with adjacent parts.
	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 with 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.
Door does not move.	Check the track mounting screws for looseness.	Retighten 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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