#### LAMP

# FD80-AFH HEAVY DUTY ALUMINUM FRAME SLIDING DOOR (Two-Way Soft Close, Recessed Mount Roller) Installation Manual

Part No.FD80DHCHP-AF

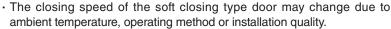
Thank you for selecting our product. Before starting installation, please read this manual thoroughly to ensure correct installation. Please keep this manual at hand for future reference.

### ABOUT THE PRODUCT

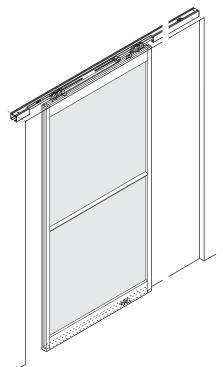
- This product is a parts set for heavy duty sliding door system for indoor use.
- Two-way soft closer enables two-way soft closing movement for both direction.
- Recessed mount roller allows a small gap between the track and the door.

### **SPECIFICATIONS**

	Without Intermediate support 14	With Intermediate support 14
Door width	784 mm – 900 mm	784 mm – 1500 mm
Max.Door height	2200 mm	2500 mm
Min.Door thickness	5 mm or 6 mm	
Max.Door weight	80 kg	
Height adjustable range	1 mm upward, 4 mm dounward	



· Recommended ambient temperature range is 5 to 40 degrees centigrade.



### FOR YOUR SAFE WORK AND CORRECT INSTALLATION

#### Meaning of symbols







Required

# ! WARNING: If these warnings are not followed, it may result in death or serious injury.

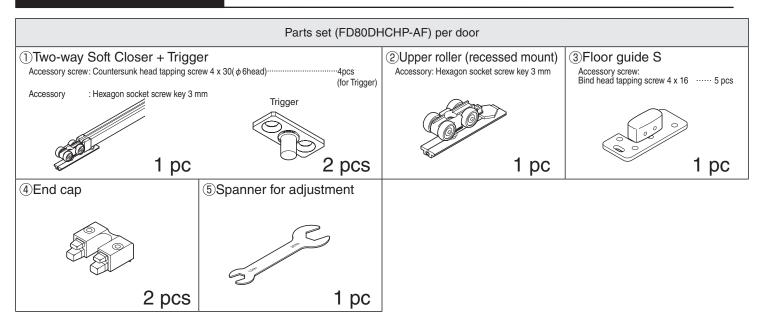
- This (sliding door system) should be installed by an experienced person who has correct knowledge. If the system is not installed correctly, the door will not operate smoothly, and or may cause injury.
- It is necessary to manufacture the frame with sufficient strength so it endures the weight of the door and impact shocks upon opening/closing the door. A frame with poor strength might result in improper and slower movement of the door. In the worst case, the door might drop down and cause injury.
- O Do not try to use this product for any other purposes other than originally intended for. Do not use the parts for applications that are out of specification.
- $\bigcirc$  Do not disassemble nor modify any parts than those described in this document.

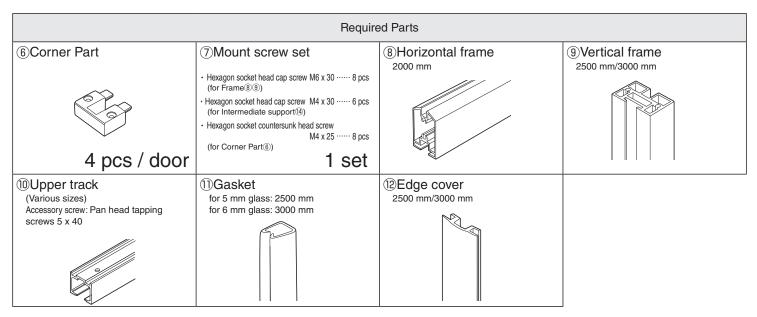
# (!) Caution: If these cautions are not followed, it may result in injury or damage.

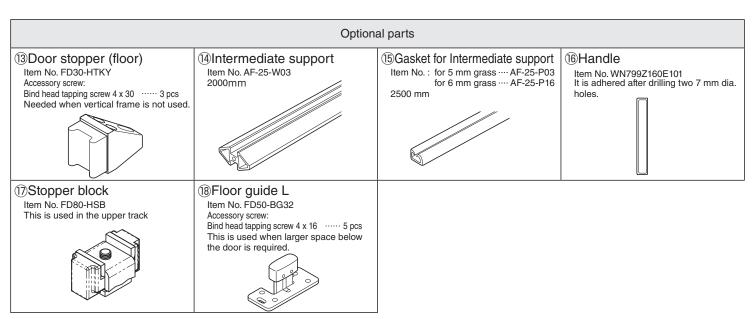
- Make sure to follow the designated measurements and specifications as well as horizontal and verticals angles. Make sure that the frame is not warped, since it may affect the movement of the door.
- (1) If cutting any parts, make sure to remove any burr before installation. Also check the upper track for any left-over burr or scrap and remove these.
- This (sliding door system) 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 test the screws for slack at regular intervals (one month from first usage, half year and then one time every year is recommended).
- /!\ 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.



### **COMPONENT PARTS**



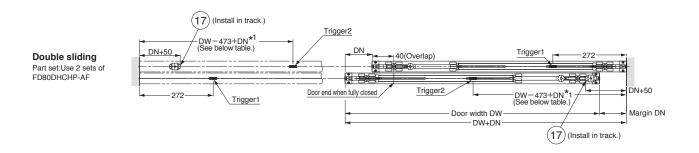


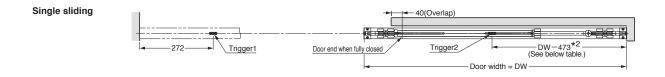


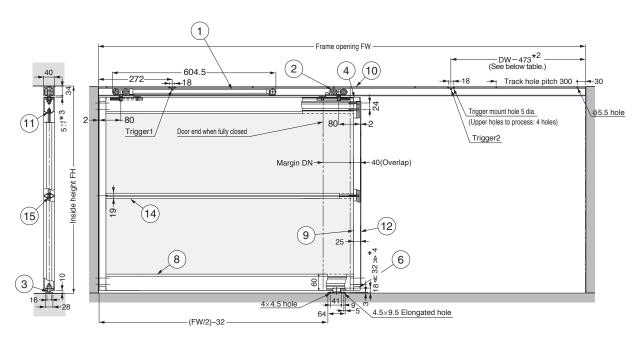


## **INSTALLATION DRAWING (EXAMPLE)**

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







- \*3 Height adjustable range : -4 mm to +1 mm
- \*4 Dimension  $\ll \gg$  : when Floor guide L  $\circledR$  is used

#### **INSTALLATION DIMENSIONS FOR TRIGGER 2**

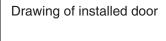
Please add the Margin DN to dimension for Trigger 2, if you are using a protruding handle. Example shown below.

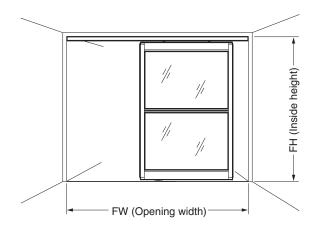
DW	*2 [Margin DN=0 mm] Installation dimension for Trigger 2	*1 [For Double sliding only] Example [Margin DN=70 mm] DW-473+DN is the Installation dimension for Trigger 2
1,000	527	597
1,100	627	697
1,200	727	797
1,300	827	897
1,400	927	997
1,500	1,027	1,097

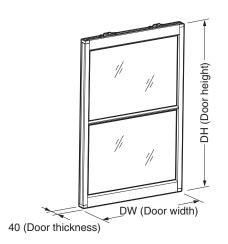


### **DIMENSIONS OF DOORS**

(Cut off after the decimal point for the divided dimensions.)







DH (Door height) = FH-49

Single sliding DW (Door width) = 
$$\frac{\text{FW+DN (Margin)} + 40}{2}$$

Double sliding DW (Door width) = 
$$\frac{FW+40}{2}$$

GH (Glass height) = 
$$\frac{DH-104-(Number of Intermediate support \textcircled{4} x 11)}{Number of glass panels}$$

Example 1



Ex: 1 door on single track

Size of the door when Opening width 1800 mm and Opening height 2100 mm with 80 mm of margin

$$DH = 2100 - 49$$
  
= 2051 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 and Opening height 2400 mm

$$DW = \frac{1800 + 40}{2}$$
  
= 920 mm

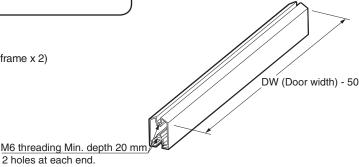
# 1 Cutting and hole processing of standard length parts

### ∕!\ 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.

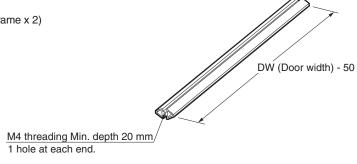
#### 1-1 Processing of Horizontal frame®

Length = DW(Door width) - 50 (Thickness of Vertical frame x 2)



#### 1-2 Cutting and hole processing of Intermediate support 4, when used

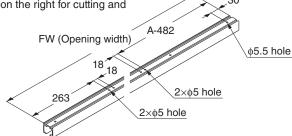
Length = DW(Door width) - 50 (Thickness of Vertical frame x 2)



#### 1-3 Processing of Upper track®

Length = FW (Opening width)

Refer to the figure on the right for cutting and drilling holes.



About dimension A (See the drawing on page 3 for the detail.)

#### Single sliding

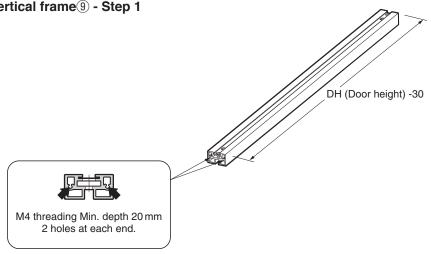
A = DW (Door width)

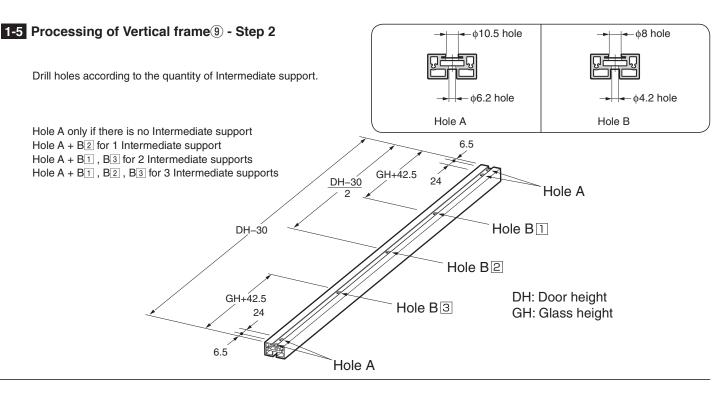
FW (Opening width) + DN (Margin) + 40

#### Double sliding

A = DW (Door width) + DN (Margin) = FW (Opening width) + 40 + DN (Margin)

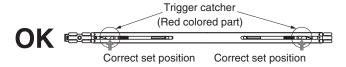
### 1-4 Processing of Vertical frame 9 - Step 1

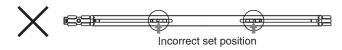




# 2 Assembling parts

#### 2-1 Confirmation before installing Tow-way soft closer





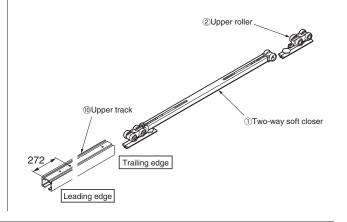
If the position is wrong, pull back the trigger catcher to the correct position using 6 mm diameter hard bar.



!\text{!\text{!}} If the closer is installed without conformation, it will cause the trouble such as no-sliding of door.

### 2-2 Assembly of parts for track

- (1) Assemble the parts in order of ① to ② with care of direction.
- (2) Tape around rollers and upper track to prevent drop of inserted parts.

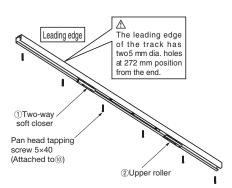


# 3 Installing Upper track<sup>®</sup>, Trigger<sup>®</sup>, and Floor guide S<sup>®</sup>

#### 3-1 Mounting Upper track®

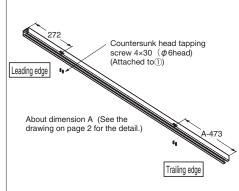
Confirm that leading edge of the upper track is in same direction as the leading edge of the door.

Fix the upper track with attached screws.



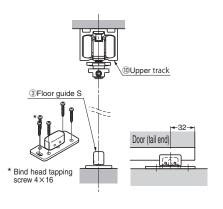
#### 3-2 Installing Trigger 1

According to "Installation Drawing (Example)", install triggers with attached screws.



### 3-3 Installing Floor guide S3

Install the floor guide so that it stays under the door when it is opened or closed.

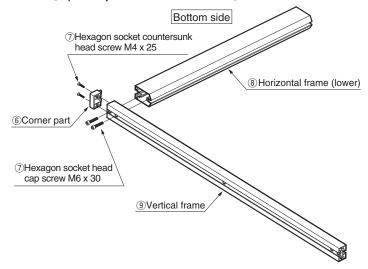


# 4 Assembling door

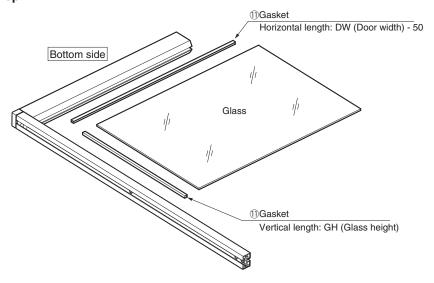
### **⚠** Caution -

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

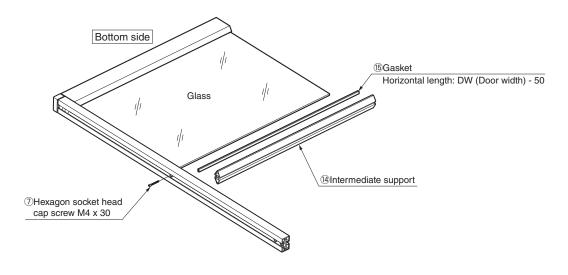
#### 4-1 Assembling Horizontal frame (8) (lower) and Vertical frame (9)



### 4-2 Insertion of glass - Step 1

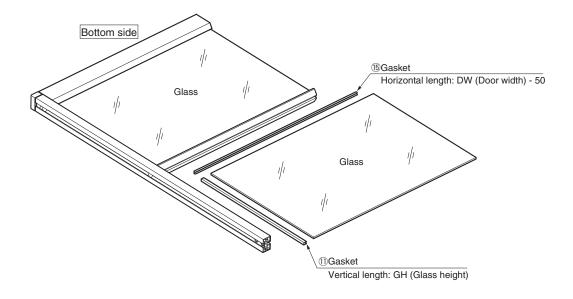


#### 4-3 Assembly of Intermediate support<sup>(1)</sup>, when used



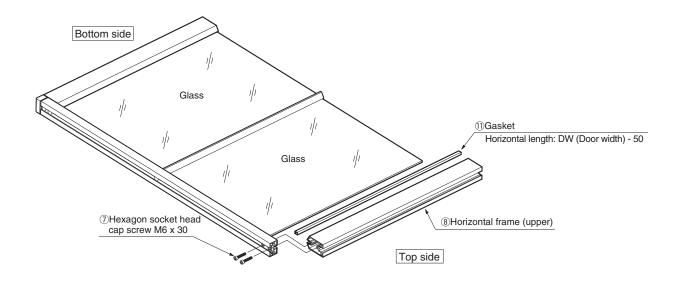


#### 4-4 Insertion of glass - Step 2, when Intermediate support is used



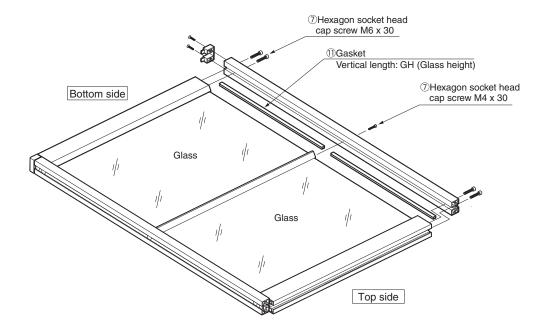
When using more than two Intermediate supports, repeat procedures 4-3 to 4-4.

### 4-5 Assembly of Horizontal frame (upper)



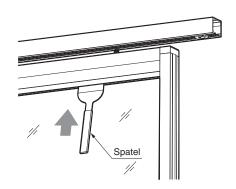


#### 4-6 Assembly of Vertical frame 9

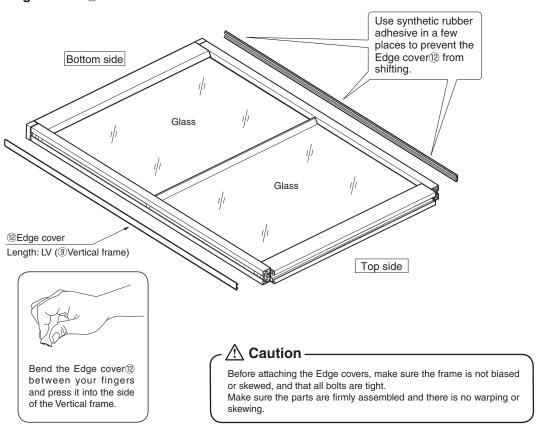


You may find the Gasket coming off from the frame.

In such case, use a Spatel or something to push it in and be careful not to scratch the glass.



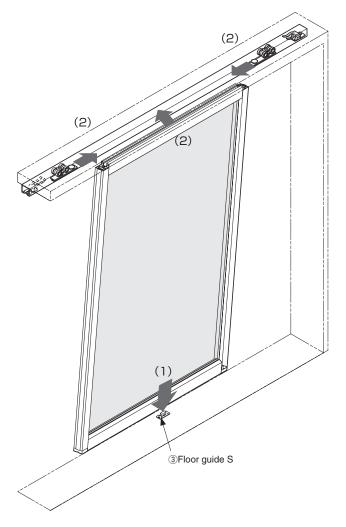
#### 4-7 Assembly of Edge covers 12



# 5 Hanging the door

#### 

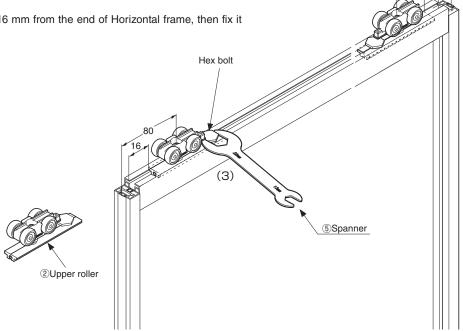
Be sure to have someone with knowledge and experience assist you.



(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®.

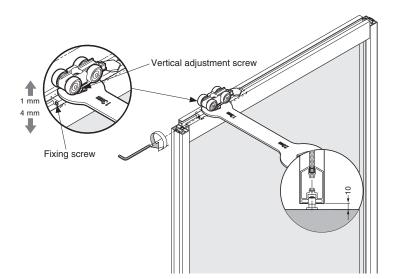
(2) Insert the fixing plate of the Roller in the Horizontal frame® as shown in the figure below.

(3) Position the Roller at 16 mm from the end of Horizontal frame, then fix it with provided spanner.

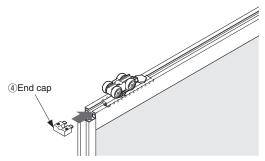


# 6 Adjusting the door

- (1) Remove the support under the door.
- (2) Turn Vertical adjustment screw of Roller② with provided spanner and adjust the gap between the door and the floor to 10 mm. The height adjustment range is +1 mm to -4 mm from factory setting (totally 5 mm).
- (3) Tighten the fixing screw of Roller② with provided spanner.

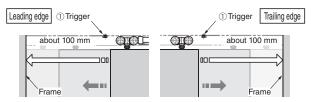


(4) Put the End cap 4 on both ends of the door.



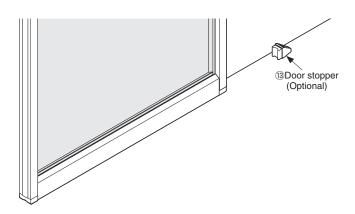
# 7 Confirming Two-way soft closer operation

- (1) Slowly move the door toward door head, and confirm that sliding door closer starts its function at approx. 100 mm before full-close position.
- (2) Also, confirm that the door closer starts its function at approx. 100 mm before full-open position.
  - If the closer is not working correctly, check the Troubleshooting section.



# 8 Installing Door stopper (3) (Option)

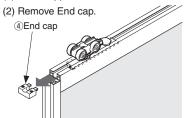
Make sure to install the Door stopper<sup>®</sup> when vertical frame is not used.



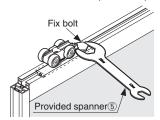


### **HOW TO REMOVE DOOR**

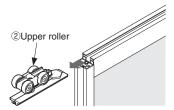
(1) Put a support under the door.



(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.

Periodical Inspection Clean inside of track.

Check upper space 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 with floor.	Confirm that track fixing screws are not loosened. Then, adjust door height such that clearance between door bottom and floor becomes 6 - 13 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 and it may damage soft closer.
	The position of trigger catcher might change to the incorrect position inside the track. (See section 2-1.)	Slowly moving the door toward leading edge side, then push the door firmly. Repeat this action to the opposite side as well. If it is still not improved, check the status of trigger catcher in section 2-1.
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 touches adjacent parts.	Correct door position to avoid contact to other objects. Adjust position of floor guide or stopper.
	Check if door is warped.	Use a door without warp.
Door does not move.	Check track retaining screws for looseness.	Roller touches with screw. Retighten screws to free the roller.

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