

# LAMP® FD80-H SLIDING DOOR SYSTEM Installation Manual (Two-Way Soft Close, Surface Mount Roller)

Part No.FD80DHCMP

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.

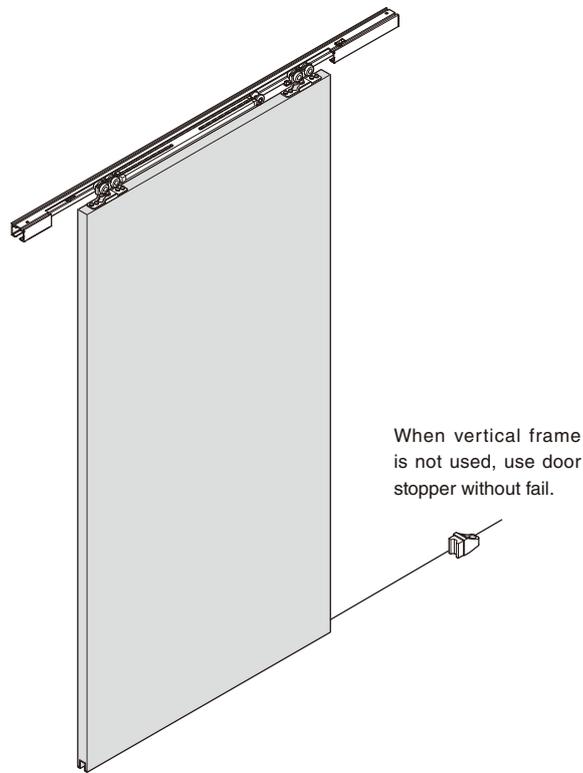
## ABOUT THE PRODUCT

- This product is a parts set for heavy duty sliding door system for indoor use.
- Dual soft closer enables two-way soft closing movement for both direction.

## SPECIFICATIONS

Door width	784mm – 1500mm
Max.Door height	2500mm
Min.Door thickness	30mm
Max.Door weight	80kg
Height adjustable range	4mm upward, 4mm 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

	This symbol denotes prohibited action.
	This symbol denotes what must be done.

### **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.
- ⊘ 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.
- ⊘ 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.**

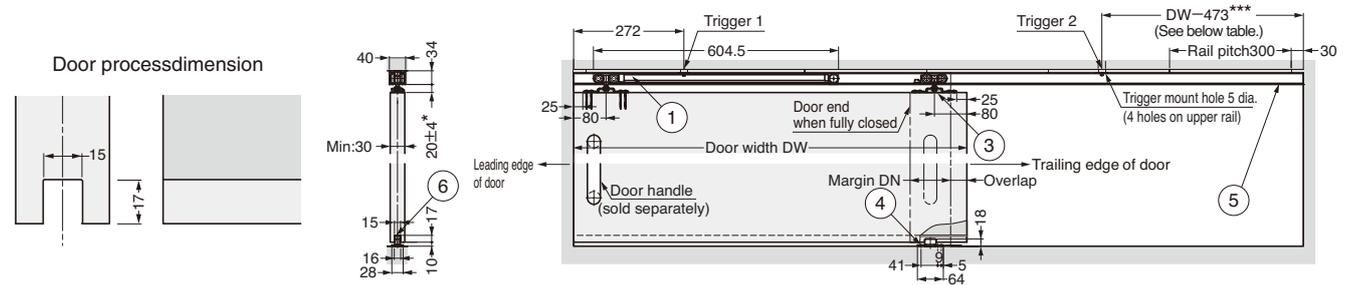
- ❗ Make sure to follow the designated measurements and specifications as well as horizontal and verticals angles. Make sure that the frame is not warped, since it may affect the movement of the door.
- ❗ If cutting any parts, make sure to remove any burr before installation. Also check the upper rail 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).

# COMPONENT PARTS

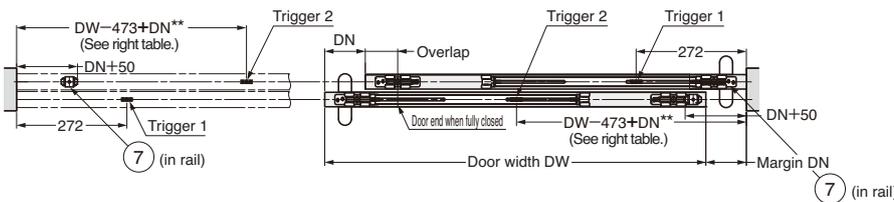
No.	①	②	③	④	⑤	⑥
Name	Dual soft closer (surface mount)	Trigger	Upper roller (surface mount)	Floor guide S	Upper rail	Door bottom guide rail
Item No.	FD80-WRM-DSC		FD80-WRM	FD50-BG18	FD80-TRM series	FD30-HBRT1500SIL
Item						
	Accessory screw: Pan head tapping screw 4x45 ..... 4pcs	Accessory screw: Countersunk head tapping screw 4x16(D6) ..... 4pcs	Accessory screw: Pan head tapping screw 4x45 ..... 4pcs	Accessory screw: Bind head tapping screw 4x16 ..... 5pcs	(Various sizes) Hole pitch :250mm Pitch end :30mm	1500mm Hole pitch :250mm Pitch end :30mm
Single sliding	1pc	2pcs	1pc	1pc	1pc	1pc
Double sliding	2pcs	4pcs	2pcs	2pcs	2pcs	2pcs
In line sliding	2pcs	4pcs	2pcs	2pcs	2pcs	2pcs

No.	⑦	⑧	⑨	⑩
Name	Stopper block (sold separately)	Door stopper (floor)	Floor guide L	Spanner
Item No.	FD80-HSB	FD30-HTKY	FD50-BG32	FD30-FSP
Item				
	This is used in the upper rail.	Needed when vertical frame is not use.	This is used when larger space below the door is required.	Nominal designation 10,12
		Accessory screw: Bind head tapping screw 4x30 ..... 3pcs	Accessory screw: Bind head tapping screw 4x16 ..... 5pcs	

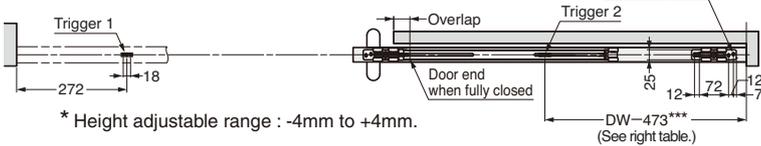
# INSTALLATION DRAWING (EXAMPLE)



## Double Sliding



## 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	*** [Margin DN=0mm] Installation dimension for Trigger 2	** [For Double sliding only] Example [Margin DN=70mm] 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

# INSTALLATION PROCEDURE

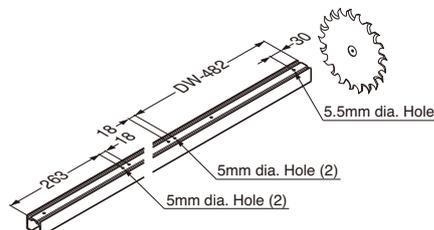
(This manual explains assembly of single side sliding door system.)

## 1 PREPARATION AND INSTALLATION

### 1. Cutting upper rail and hole processing

Cut the rail to necessary length. Refer to the figure on the right for cutting and drilling holes.

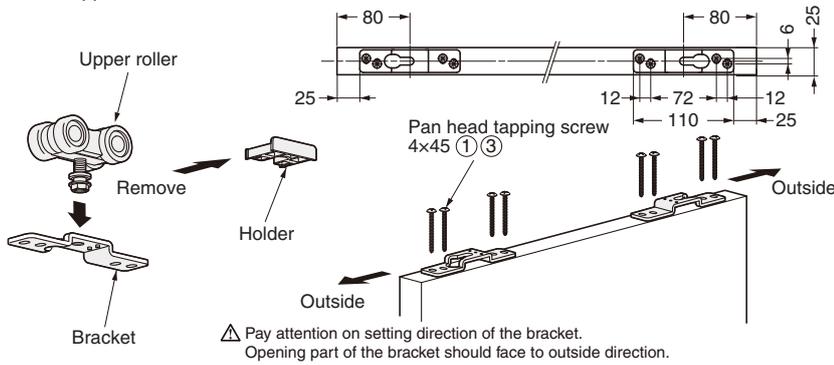
⚠ Chips or dirt left inside the rail may stick to the rollers creating a rumbling noise when the door is moved. Remove any chips or dirt from inside the rail after cutting & hole processing.



Dimension DW: For detail, refer to Installation Drawing (Example)

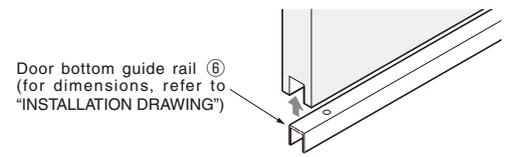
## 2. INSTALLING HOLDER

Remove upper roller holder and shaft fixing holder.  
Fix the upper roller bracket with attached screws.

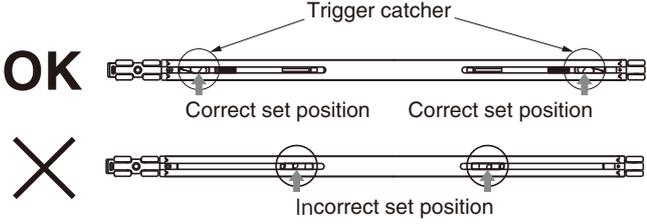


## 3. INSTALLATION OF DOOR BOTTOM GUIDE RAIL

Cut door bottom guide rail with same length of door.  
Firmly insert the guide rail into notch at bottom of door. And, fix it with Screws 4x16 (to be prepared separately).



## 4. CONFIRMATION BEFORE INSTALLING THE DUAL SOFT CLOSER



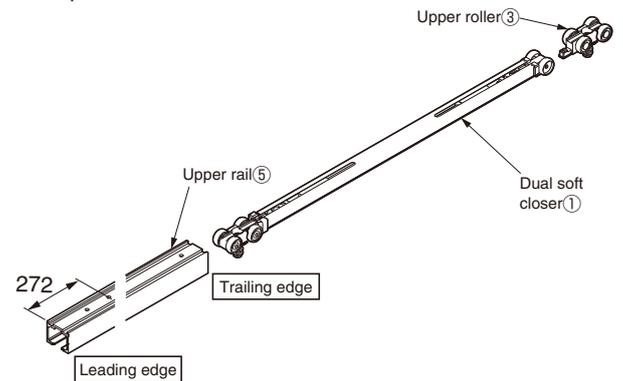
If the position is wrong, pull back the trigger catcher to the correct position using 6mm diameter hard bar.



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

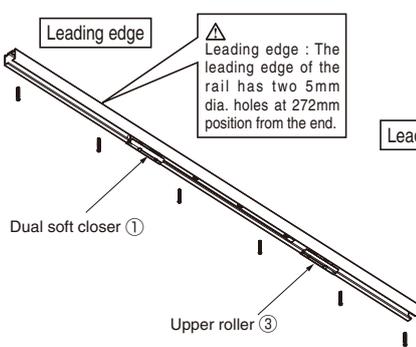
## 5. ASSEMBLY OF PARTS FOR RAIL

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



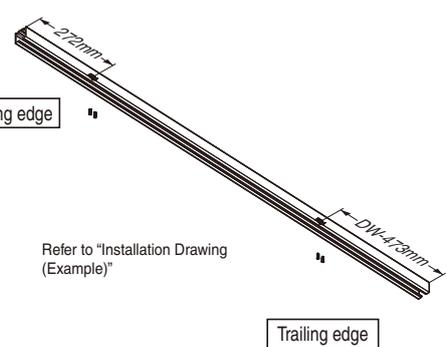
## 6. MOUNTING UPPER RAIL

Confirm that leading edge of the upper rail is in same direction as the leading edge of the door. Fix the upper rail with attached Screws 5x40.



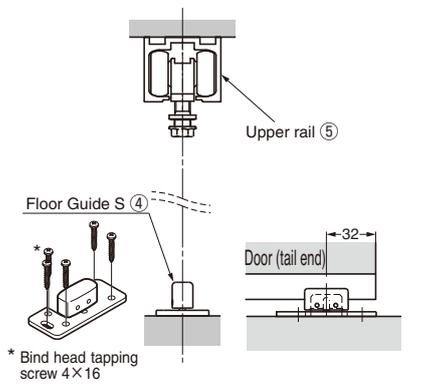
## 7. INSTALLING TRIGGER

According to "Installation Drawing (Example)", install triggers with attached Screws 4x16D6.



## 8. INSTALLING FLOOR GUIDE S

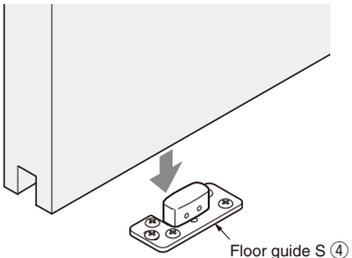
Install the floor guide so that it remains between the leading and trailing edges of the door when it is opened or closed.



# 2 HANGING THE DOOR AND ADJUSTMENT

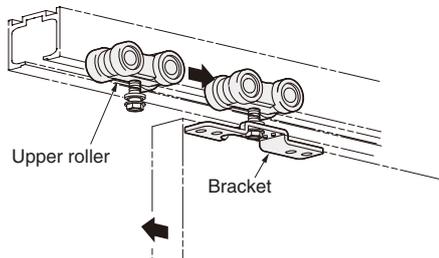
### 1. DOOR INSTALLATION (BOTTOM)

Insert the floor guide S in the groove, and then hang the door in the bracket.



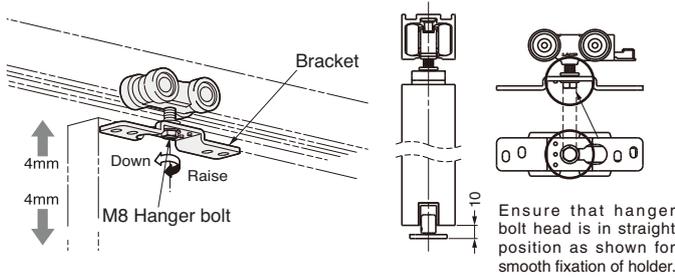
### 2. DOOR INSTALLATION (UPPER)

Insert the upper roller into the holder as shown in the drawing below.



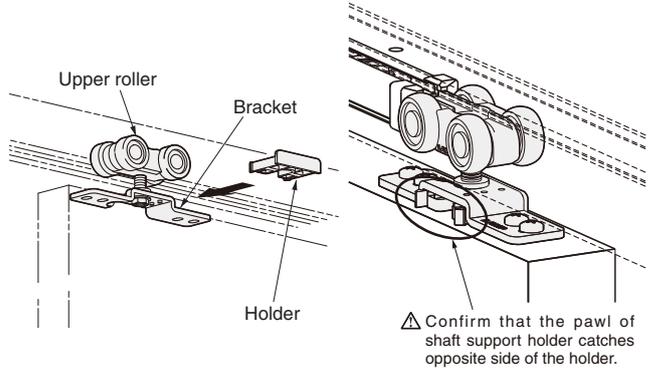
### 3. ADJUSTMENT OF DOOR HEIGHT

To adjust the door height turn the upper roller M8 hanger bolt with the spanner (10mm, not provided). The height adjustment range is +4mm to -4mm from factory setting (totally 8mm).



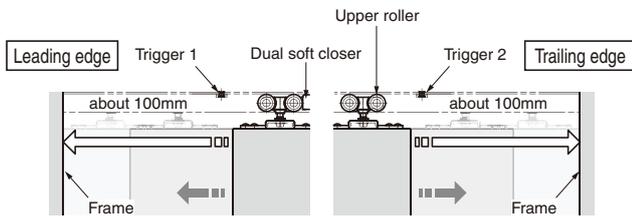
### 4. INSTALLATION OF HOLDER

Insert the holder as shown below.



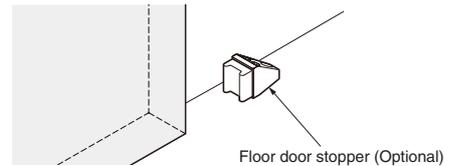
### 5. CONFIRMING DUAL SOFT CLOSER OPERATION

- Slowly move the door toward door head, and confirm that sliding door closer starts its function at approx. 100 mm before full-close position.
  - 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.



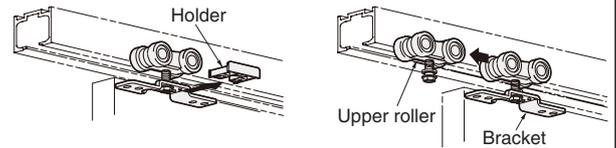
#### ■ INSTALLING DOOR STOPPER (FLOOR)

Make sure to install the Door stopper (floor) when vertical frame is not used.



#### ■ HOW TO REMOVE DOOR

- Put a support under the door.
- Pull out the Holder.
- Pull out the Upper roller from the Bracket.



- Remove the door from the Floor guide.

#### Periodical Inspection

- Clean inside of rail.
- Check upper space and lower space of the door. If necessary, correct the space.

## TROUBLESHOOTING

Trouble	Check Point	Remedy
Door stops during soft closing	Check if door bottom contacts with floor.	Confirm that rail fixing screws are not loosened. Then, adjust door height such that clearance between door bottom and floor becomes 10 mm.
No soft closing	Check if door stops before door stopper.	Close the door completely. This will reset the function.
	Check if trigger is installed.	Install the trigger to correct position.
	Check if door is closed with excessive force.	Do not close the door with excessive force. It prevents suitable function causing trouble. Use normal operating force.
Abnormal noise during operation	Check if door contacts to other parts.	Provide necessary space between door and adjacent objects.
	Check inside of upper rail for existence of foreign matter such as aluminum dust.	Remove dust or foreign matter.
	Check rail rollers for existence of dust or aluminum powder.	Remove the rail and pull out the roller. Then, clean the roller.
Heavy door operation	Check for loosened screws retaining the upper rail	Tighten the screw.
	Check if door contacts to other parts.	Provide necessary space between door and adjacent objects.
	Check if door is warped.	Use the door without warp.
Door starts to move.	Check rail retaining screws for looseness.	Tighten the screw.
Door does not move.	Check the upper rail if it is set horizontally.	Using a level gauge, reset upper rail horizontally.

**SUGATSUNE KOGYO CO.,LTD.**  
 Phone: +81 3 3866 2260  
 F a x : +81 3 3866 4447  
 E-mail: export@sugatsune.co.jp  
 Website: www.sugatsune-intl.com

**SUGATSUNE KOGYO (UK) LTD.**  
 Phone: +44 118 9272 955  
 F a x : +44 118 9272 871  
 E-mail: sales@sugatsune.co.uk  
 Website: www.sugatsune.co.uk

**SUGATSUNE AMERICA, INC.**  
 Phone: +1 310 329 6373  
 F a x : +1 310 329 0819  
 E-mail: sales@sugatsune.com  
 Website: www.sugatsune.com

**SUGATSUNE SHANGHAI CO., LTD.**  
 Phone: +86 21 3632 1858  
 F a x : +86 21 3632 1868  
 E-mail: lamp@sugatsune.com.cn  
 Website: www.sugatsune.com.cn