

# Installation Manual

## FD30SP SLIDING DOOR SYSTEM

LAMP®

Recessed Mount Roller, Two-Way Soft Close

Part No. : FD30SPDHCHP

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

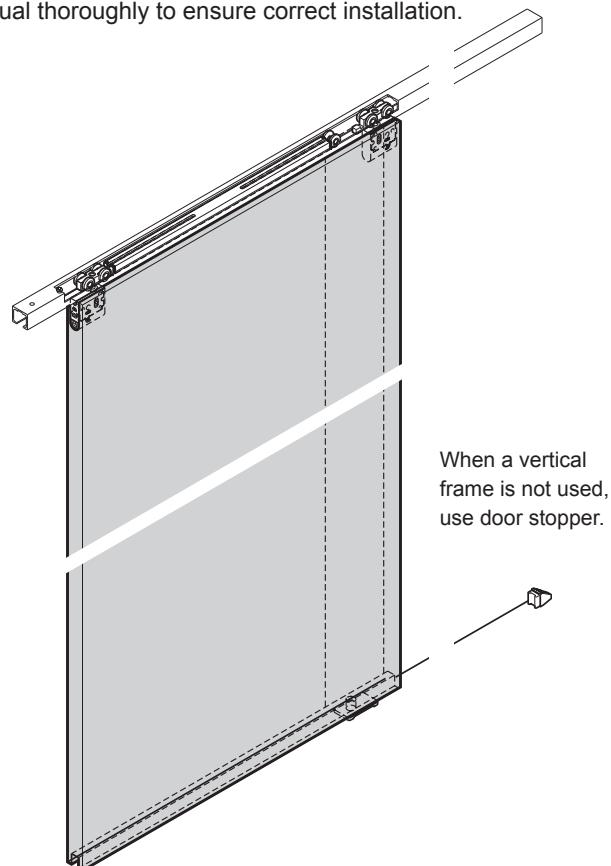
- This product is a sliding door system for indoor use.
- The door closes in 2 soft motion steps; first slow, then fast, and opens with 1 step soft motion.
- The door can be installed without the use of tools.

### SPECIFICATIONS

Max. Door height	2400 mm
Door width	590 – 1000 mm
Min. Door thickness	24 mm
Max. Door weight	30 kg ※ <sup>1</sup>
Vertical adjustment	± 3 mm
Depth adjustment	± 2 mm

- 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.

※<sup>1</sup>When using a light weight door, you may feel the resistance of the soft closer when opening the door.(Recommended at least 10kg)



### FOR YOUR SAFETY AND CORRECT INSTALLATION



#### 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.



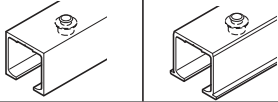
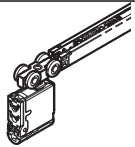
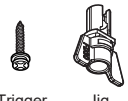

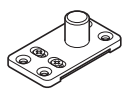
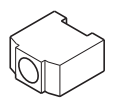


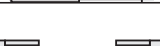
- Do not use this product for any other purpose, or with doors that are outside the specifications of this manual.
- Do not disassemble or modify any parts other than those described in this document.

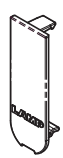
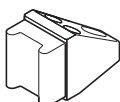


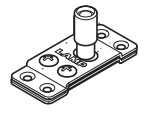

#### Caution: If not followed, injury or damage may result.



- 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).
- Install the product with two people (in the case of one person, there is a risk of damaging components).

# COMPONENT PARTS

No	①		②	③ ④	⑤	⑥	⑦
Name	Upper track (surface mounted)	Upper track (recessed mounted)	Soft closer (two-way)	Trigger/Jig	Upper roller	Floor guide	Stopper Block
Item No.	FD30-TRM	FD30-TRH	FD30SP-WRH-DSC	FD25SP-30-TRG FD25SP-30-TRJ	FD30SP-WRH-N	FD30-HBG	FD30-HSB
Item	 (various sizes) Hole pitch : 300 mm Pitch end : 30 mm Recommended screw : Countersunk head tapping screw 3.5 × 20		 Accessory screw: Pan head tapping screw 3.5 × 30 ..... 3 pcs	 Trigger Jig	 Accessory screw: Pan head tapping screw 3.5 × 30 ..... 3 pcs	 Accessory screw: Countersunk head tapping screw 3.5 × 30 ..... 4 pcs	
Single sliding		Use 1 (surface mounted or recessed)	1 pc	1 pc	1 pc	1 pc	—
Double sliding		Use 2 (surface mounted or recessed)	2 pcs	2 pcs	2 pcs	2 pcs	—
In line sliding		Use 2 (surface mounted or recessed)	2 pcs	2 pcs	2 pcs	2 pcs	2 pcs

OPTIONAL PARTS	No.	⑧	⑨	⑩	⑪	⑫	ACCESSORY	
	Name	Cover cap	Door stopper (floor mount)	Embedded Lower Guide Rail	Bumper block	Floor guide (long shaft)		Spanner wrench
	Item No.	FD25SP-WRH-CP	FD30-HTKY	FD30-HBRT	FD30-HBB	FD30-HBGH		FD25SP-SP
Item		 Accessory : Bind head tapping screw 4 × 30...3 pcs Needed when vertical frame is not used	 1000 - 1500 mm Hole pitch : 300 mm Pitch end : 30 mm Recommended screw: Countersunk head tapping screw 4 × 20		 Accessory screw: Countersunk head tapping screw (Stainless steel) 3.5 × 30 ..... 4 pcs			

## INSTALLATION PROCEDURE

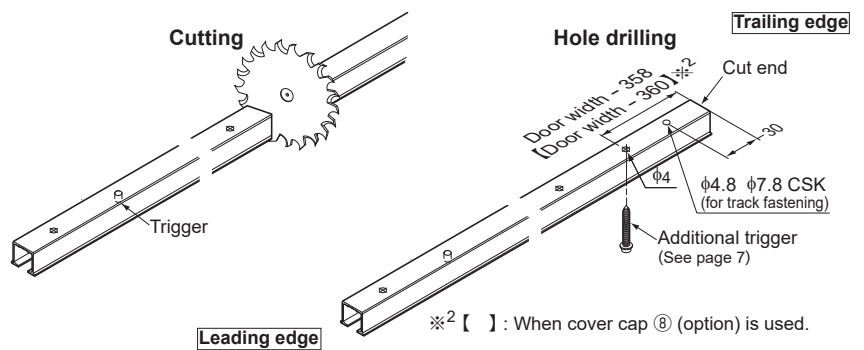
In this manual, a single sliding door is used as an example.

### 1 Cutting and Hole Drilling on Upper Track

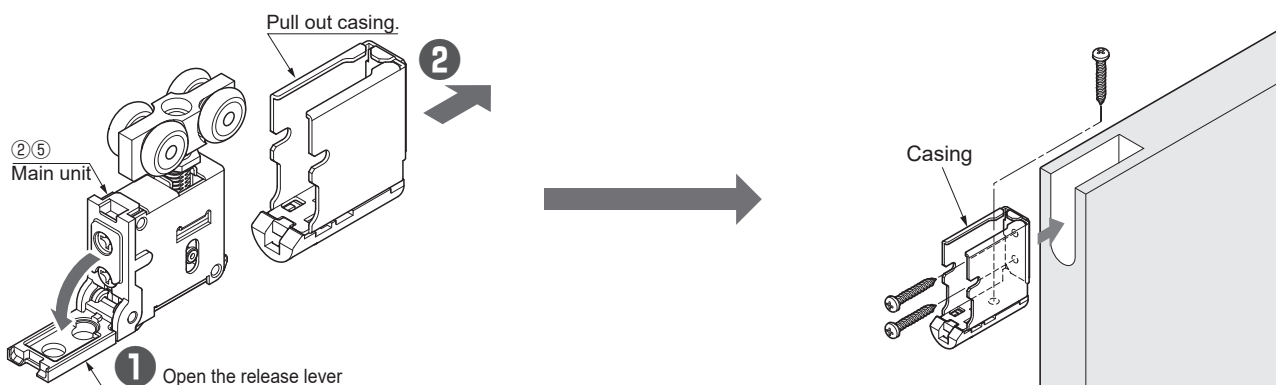
The method of calculating the trigger mounting position is described on the last page of Appendix 3.

**Caution**  
Do not cut trigger side (leading edge) of upper track.

**Caution**  
When cutting, reinforce the track to prevent deformation at the cut section.



### 2 Mounting Parts on Door



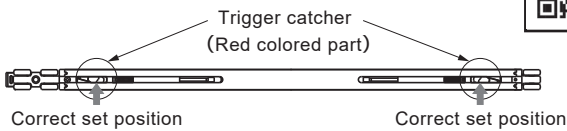
### 3 Verification Before Installing Soft Closer

**Caution**  
Without verification the self closing feature may fail.

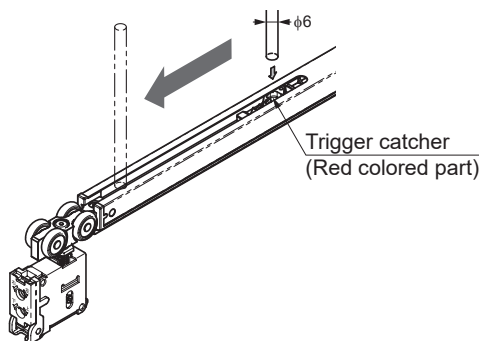
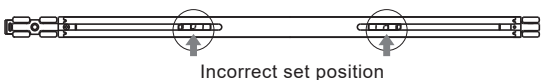


If the trigger position is wrong, pull back the trigger catcher to the correct position using a 6 mm diameter round bar.

**OK**

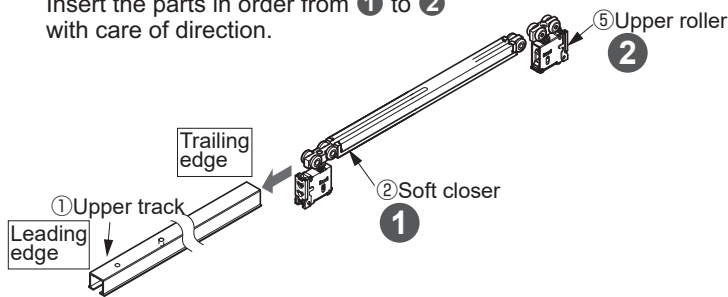


**X**



### 4 Inserting Parts into Upper Track

Insert the parts in order from ① to ② with care of direction.



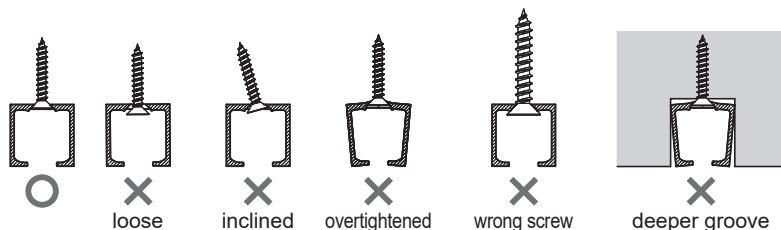
**Caution**

- ❗ Remove any dirt or aluminum chips from the track.
- ❗ Tape around rollers and upper track to prevent inserted parts from falling.

### 5 Mounting of Upper Track (Recommended screw: Countersunk head tapping screw 3.5×20)

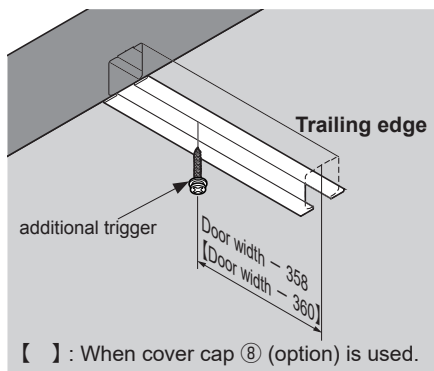
**Caution**

- ❗ 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.

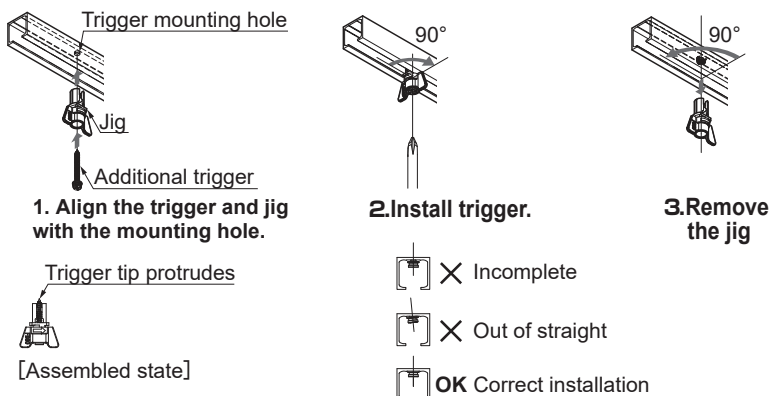


### 6 Fastening of Additional Trigger

#### [1] Mounting position

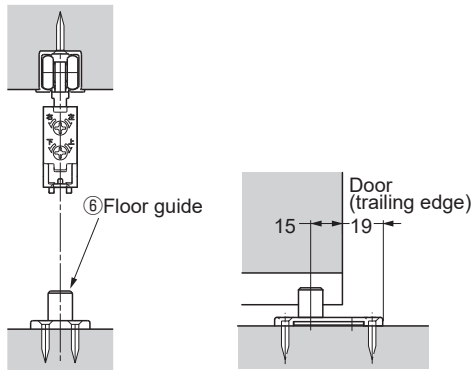


#### [2] How to use the trigger mount jig

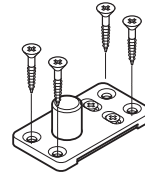


## 7 Mounting Floor Guide

Position floor guide just below the center of the upper track.

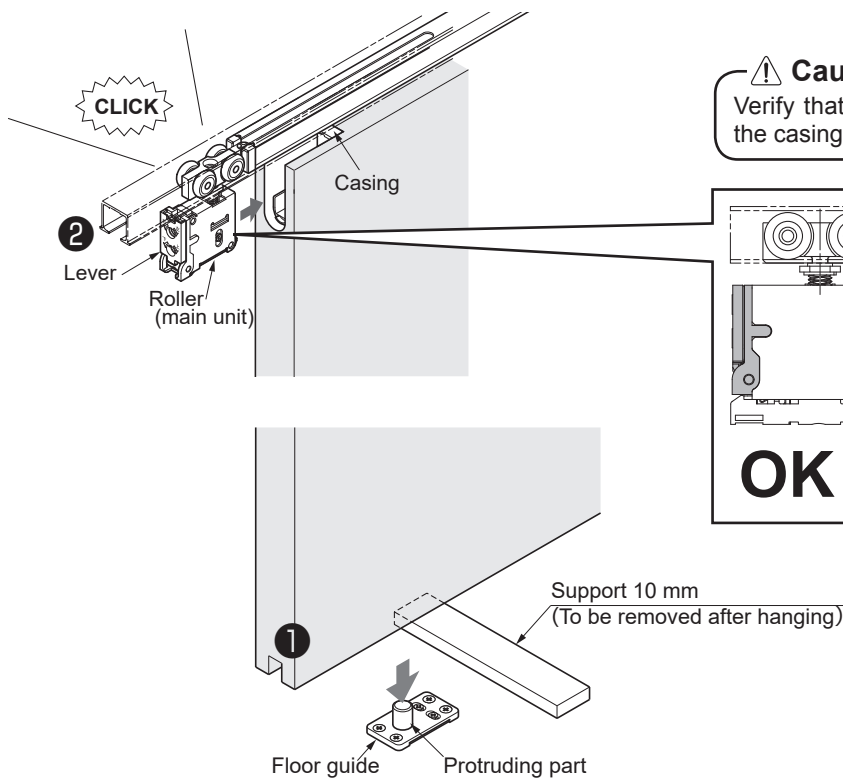


Fasten the four countersunk holes with provided screws.



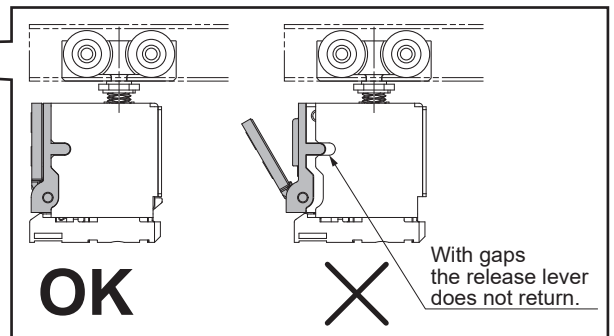
## 8 Hanging Door

Place a 10 mm support under the door.  
While holding the door, place the groove under the door on the protruding part of the floor guide.



### Caution

Verify that the main unit is not dislocated from the casing, for either of the door ends.



### 3 Verification of Soft Closer Operation

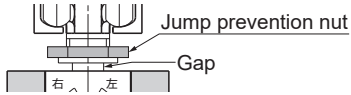
- Starting point of soft-close.
  - Leading edge : approx 100 mm before the stop position.
  - Trailing edge : approx 50 mm before the stop position.

## 9 Adjusting the Door Position

Adjust door parallel to the upper track with 7-13 mm clearance between the door and floor.

### ⚠ Caution

- ❗ The adjustment of the door should be done with the jump prevention nut loosened.

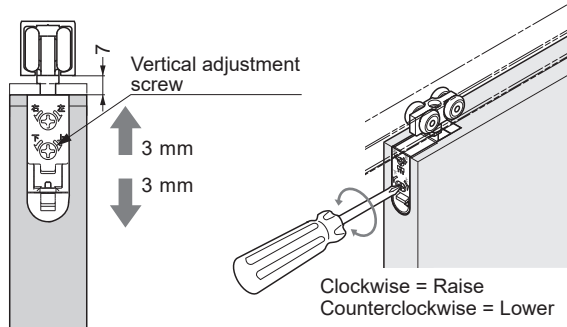


- ⊘ Do not turn adjustment screw beyond adjustment range.

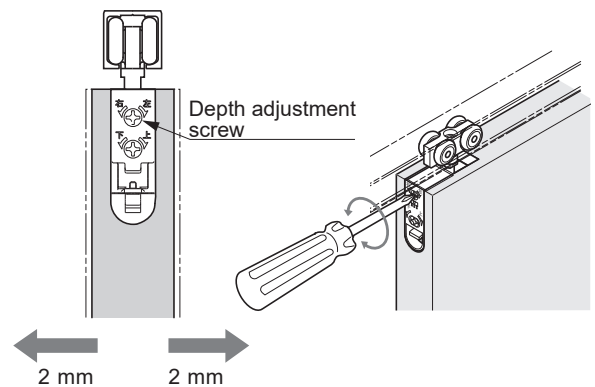
- ⊘ Do not use electric screw driver.



Vertical adjustment range: 6 mm

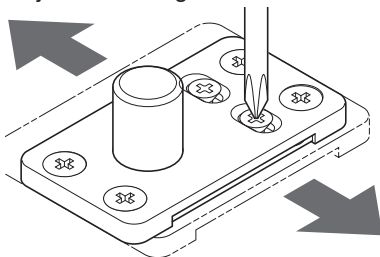


Depth adjustment range: 4 mm



## 10 Adjusting the floor guide

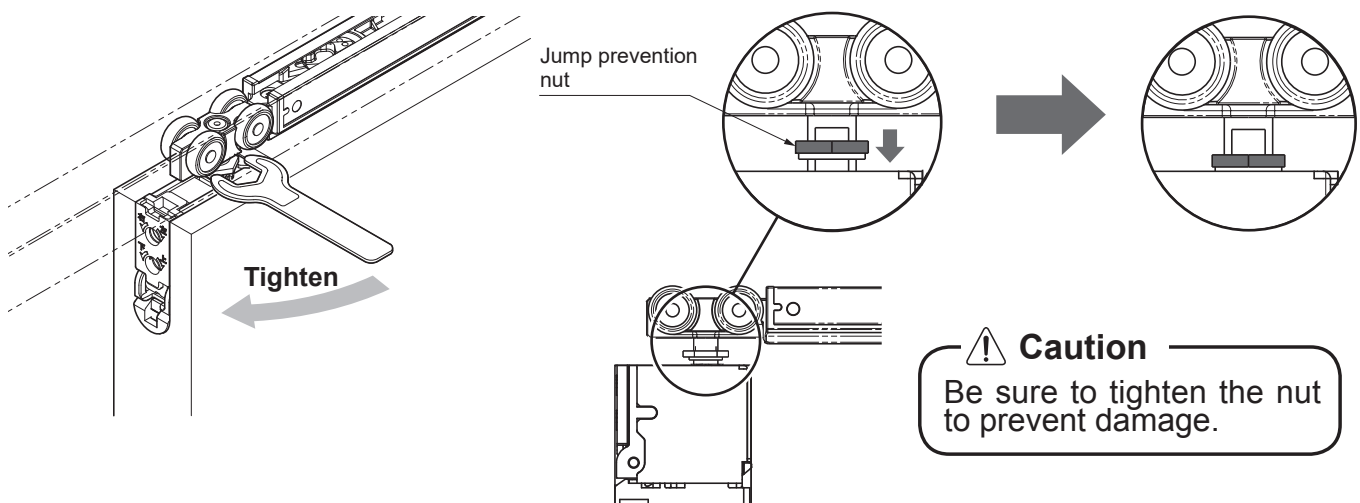
If the door movement is not smooth, remove the door, then adjust the floor guide forwards or backwards.



Adjustment range :  $\pm 2$  mm

## 11 Fastening the Jump Prevention Nut

The jump prevention nut is on the hanger bolt of the upper roller. Tighten the nut with the provided spanner until it contacts the soft closer.



⚠ **Caution**  
Be sure to tighten the nut to prevent damage.

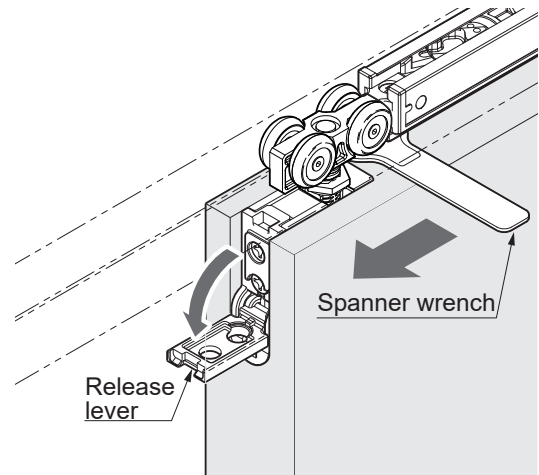
## Appendix 1 How to remove door

Use a 10 mm support under the door.

Then pull out the upper roller main unit from the door while lower the lever.  
If it is difficult to install or detach the roller, loosen the nut as shown in the illustration.

It will be easier if you slide the hanger bolt with a spanner wrench.

**⚠ Caution**  
Be careful not to let the door fall.

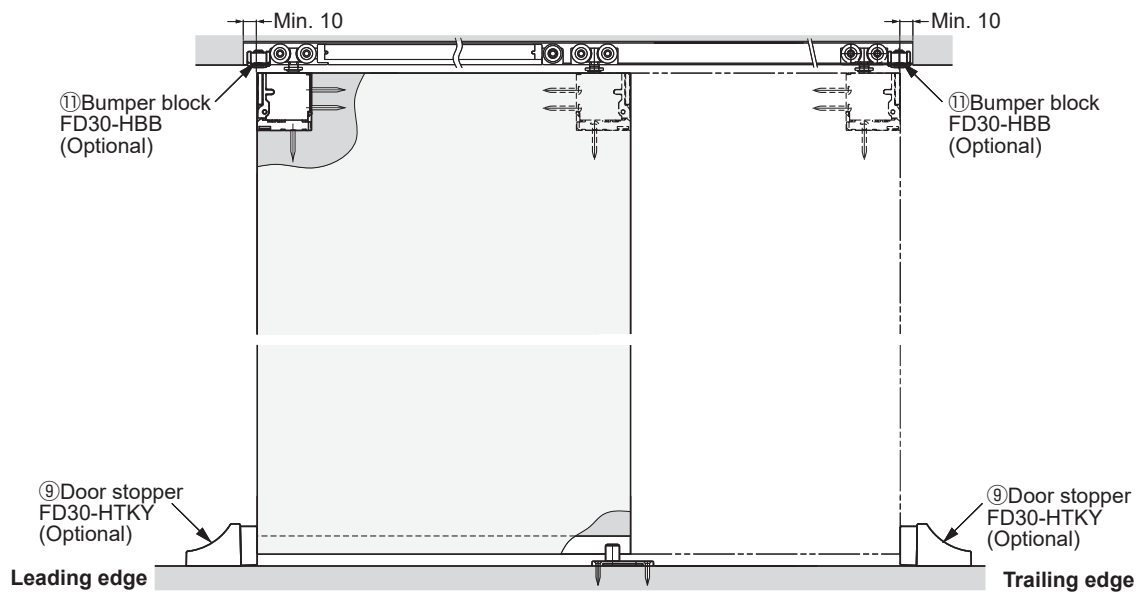


## Appendix 2 When Vertical Frame is not Used

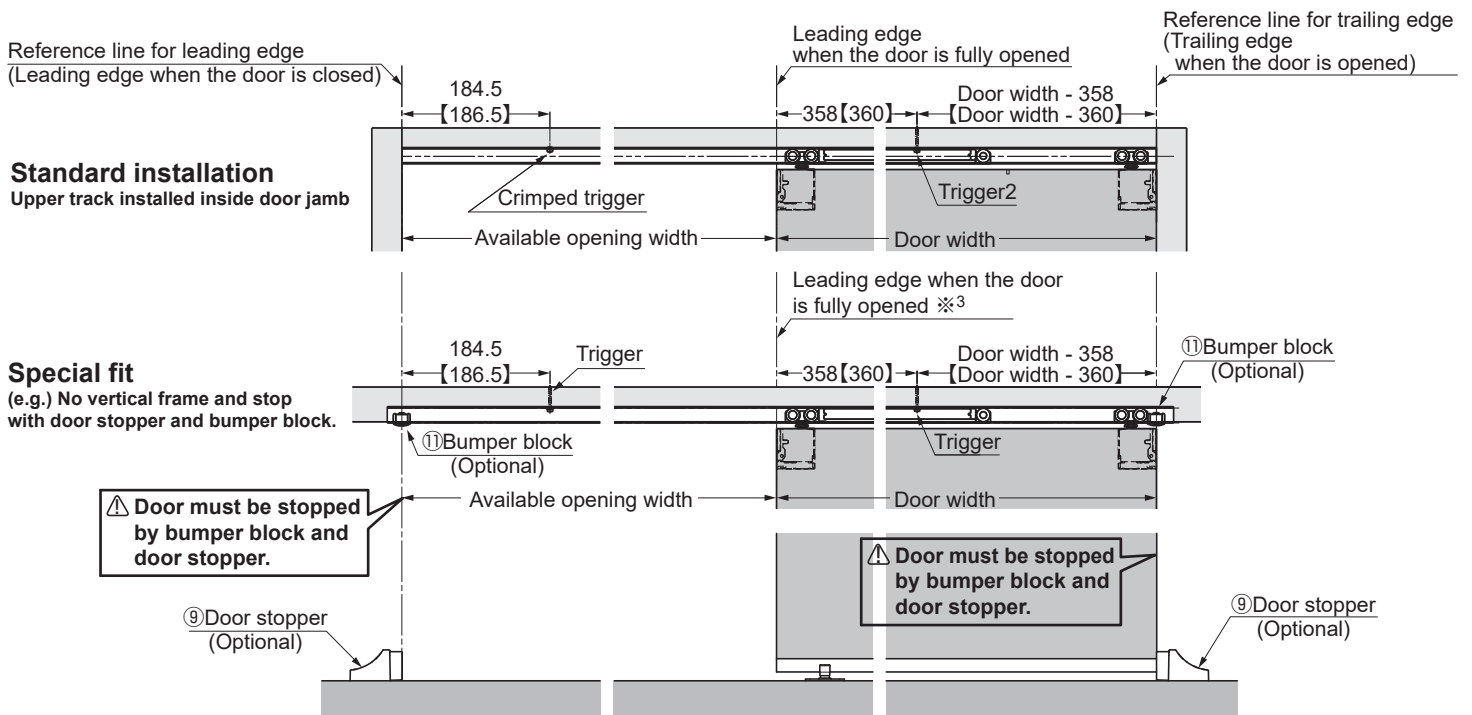
When vertical frame is not used, use the door stopper ⑨ and bumper block ⑪ on the track and on the floor.

Fasten the door stopper at the location where the door will stop. Fix the bumper block to both the upper track ends, then adjust it to the position where the door closes.

**⚠ Caution**  
The soft closer may be damaged if door stopper and bumper block are not installed.



## Appendix 3 Trigger positions



※<sup>2</sup> 【 】 : When cover cap ⑧ (option) is used.

※<sup>3</sup> Determine the trigger position by the reference line for the leading edge at fully opened position even when a margin is set.

### PERIODICAL INSPECTION

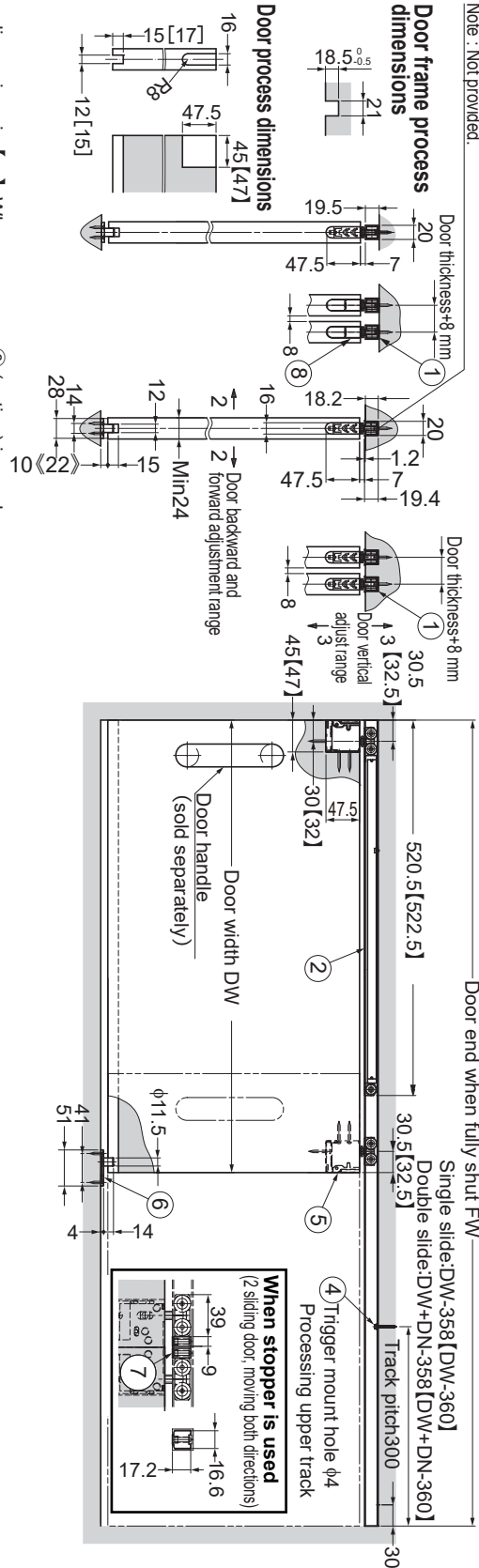
- Clean the inside of the track.
- Check the upper and lower space of the door. If necessary, correct the space.

## 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 7 - 13 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.
The door doesn't close softly	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 ③ 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 ③.
Abnormal noise during operation	Check if door bottom contacts the floor or floor guide.	Verify that the track mounting screws are not loosened. Then, adjust the door height such that the clearance between the door bottom and floor is 7 - 13 mm.
	Check if door touches adjacent parts.	Adjust the door depth position to avoid contact with other objects or adjust the position of floor guide.
	Check track rollers for aluminum dust.	Remove the track, then pull out and clean the roller.
	Check the track mounting screws for looseness.	Retighten the screws to free the roller.
Heavy door operation	Check if door touches adjacent parts.	Adjust the door depth position to avoid contact with other objects or adjust the position of floor guide.
	The position of the trigger catcher in page 6 section ③ 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 ③.
Door does not move.	Check the track mounting screws for looseness.	Retighten screws to free the roller.

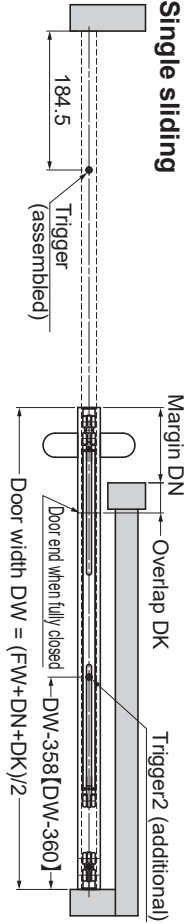
# INSTALLATION DRAWING (EXAMPLE)

Recommended screw : Philips flush tapping screw  
 Note : Not provided.

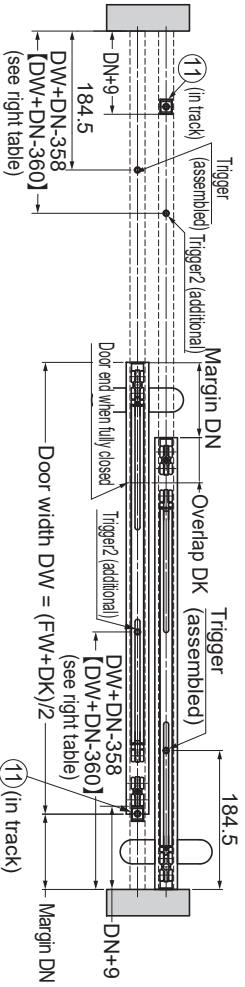


dimensions in [ ] : When cover cap ⑧ (option) is used.  
 [ ] : When recessed guide track ⑩ (option) is used.  
 < > : When long shaft floor guide ⑫ (option) is used.

## Single sliding



## Double sliding ※3



※3 For Double sliding only.

**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 = 0 mm] [DW+DN-360] is the Installation dimension for Trigger 2	Example [Margin DN = 70 mm] [DW+DN-360] is the Installation dimension for Trigger 2
600	240	310
700	340	410
800	440	510
900	540	610
1000	640	710

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