

# LAMP® FD35EV SLIDING DOOR SYSTEM Installation Manual

## (One-Way Soft Close, Recessed Mount Roller) Part No.FD35EVHCP

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

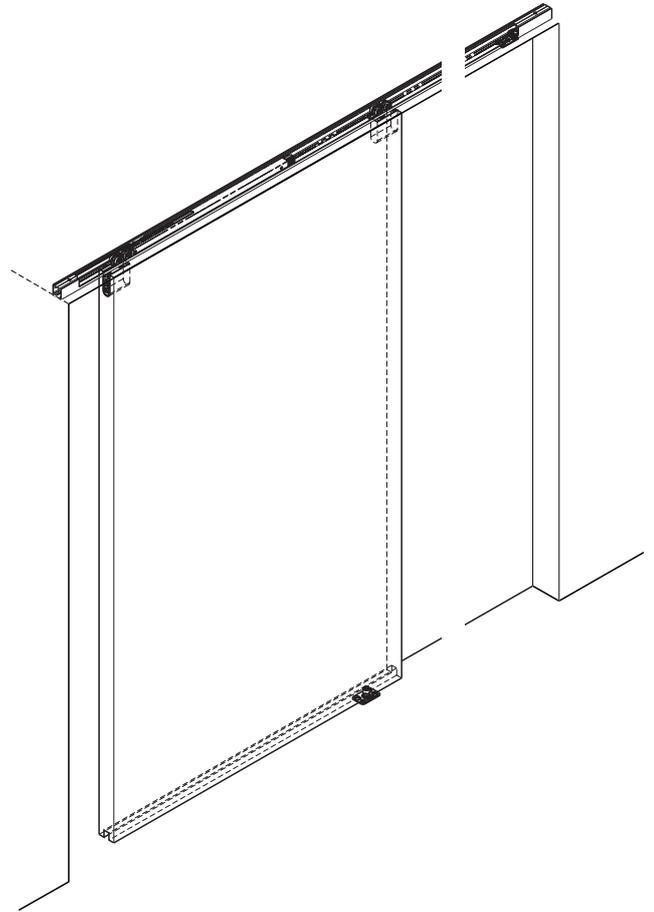
- This is the door hardware for sliding door system in stores, public facilities and residence.
- The door closes in 2 step sequential soft motion.
- Easy door installation and adjustment.

### SPECIFICATIONS

Door width	520 – 1200mm
Max. Door Height	2400mm
Min. Door thickness	24mm
Max. Door weight	35 kg *1
Height adjustable range	3mm upward, 4mm downward
Forward / backward adjustment	±2 mm

- 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 °C .

\*1 If a light weight door is applied, you may feel the resistance of soft closer strong when opening the door.



### 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.

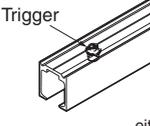
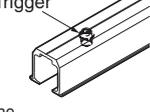
- ⓘ This (sliding door system) should be installed by an experienced person who has correct knowledge. If the system is not installed correctly, the door will not operate smoothly, and or may cause injury.
- ⓘ It is necessary to manufacture the frame with sufficient strength so it endures the weight of the door and impact shocks upon opening/closing the door. A frame with poor strength or loose screws 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.

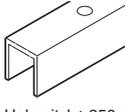
**⚠ Caution:** If these cautions are not followed, it may result in injury or damage.

- ⓘ 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 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).

# COMPONENT PARTS

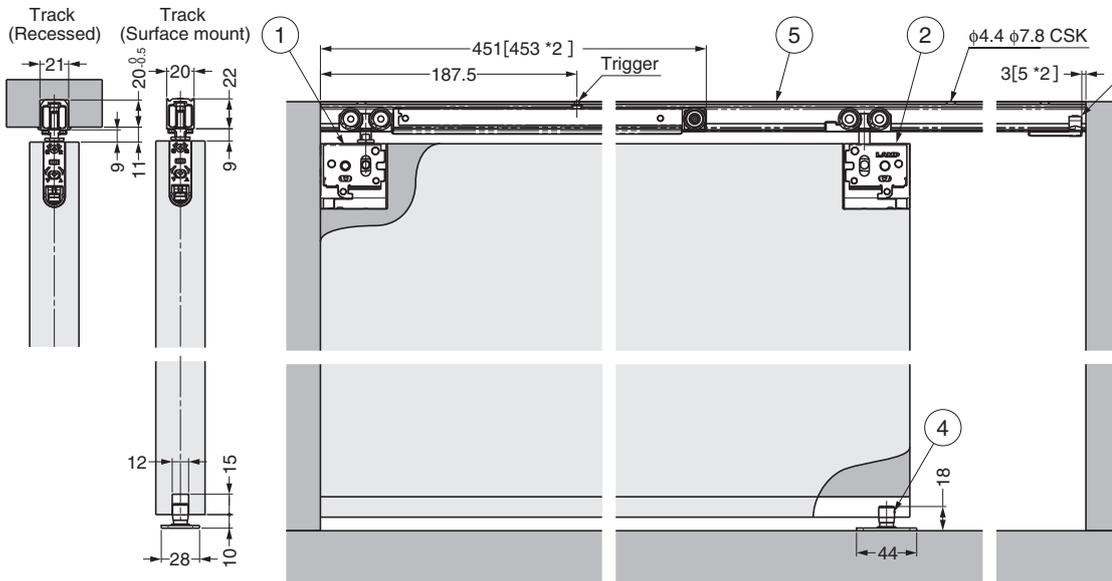
This describes installation of single sliding door.

No.	①	②	③	④	⑤		⑥
Name	One-way soft closer	Upper roller	End catch	Floor guide	Upper track (surface mount)	Upper track (recessed mount)	Spanner
Item No.	FD35EV-WRH-SC	FD35EV-WRH	FD30-HTST	FD50-BGR18	FD35EV-TRM-SC	FD35EV-TRH-SC	FD30-FSP
Item	 1pc	 Without nut 1pc	 1pc	 1pc	 Trigger either one Hole pitch : 300mm Pitch end : 30mm	 Trigger	 1pc
Accessories	Flat head tapping screw 3.8x40 ..... 3pcs	Flat head tapping screw 3.8x40 ..... 3pcs	—	Countersunk head tapping screw 4x20 ..... 4pcs	—	—	—
Remarks	—	—	—	—	Recommended screw: Countersunk head tapping screw 3.5x20		Attached to ①

OPTIONAL PARTS	No.	⑦	⑧	⑨	⑩	⑪	⑫
	Name	Cover cap	Door guide track	Bumper block	Track cleaner	Trigger	Jig
	Item No.	FD50-WRH-CP	FD30-HBRT1500SIL	FD35EV-HBB	FD30-TRC	FD35EV-TRG	FD35EV-TRJ
	Item	 Thickness: 2 mm	 Hole pitch : 250mm Pitch end : 30mm				
Accessories	—	—	—	—	Countersunk head tapping screw 4x30 ..... 2pcs	—	
Remarks	—	Recommended screw: Countersunk head tapping screw 4x20	—	—	—	—	

# INSTALLATION DRAWING (EXAMPLE)

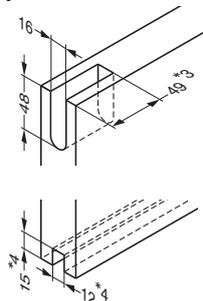
This describes installation of single sliding door.



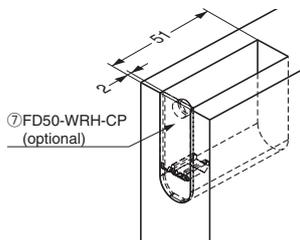
**CAUTION**  
When vertical frame is not used, apply Two-way soft closer.

\*2 [ ] : When using cover cap ⑦.

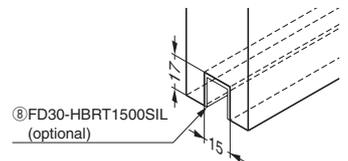
### Door process dimension



\*3 When using cover cap ⑦



\*4 When using door guide track ⑧.



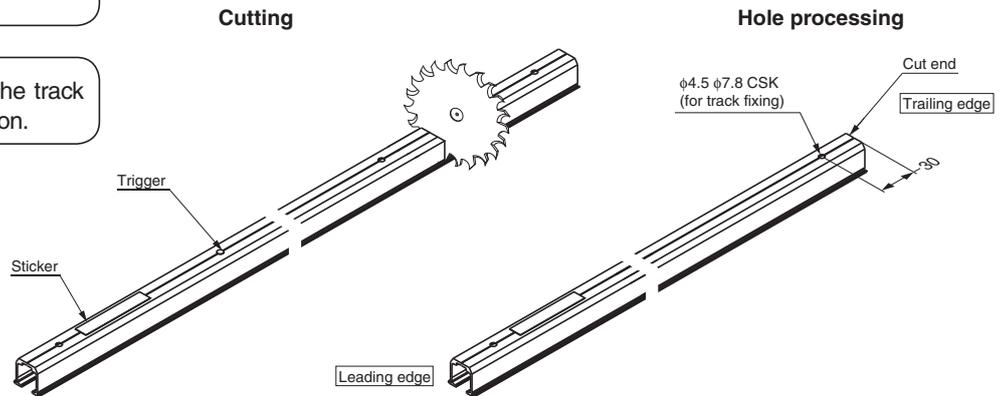
## 1 Cutting and Providing Hole on Upper Track

### ⚠ CAUTION

Do not cut trigger side (with sticker) of upper track.

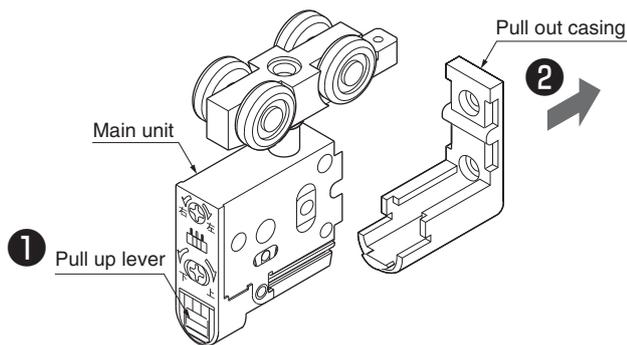
### ⚠ CAUTION

When cutting, use reinforcer for the track to prevent deformation at cut section.



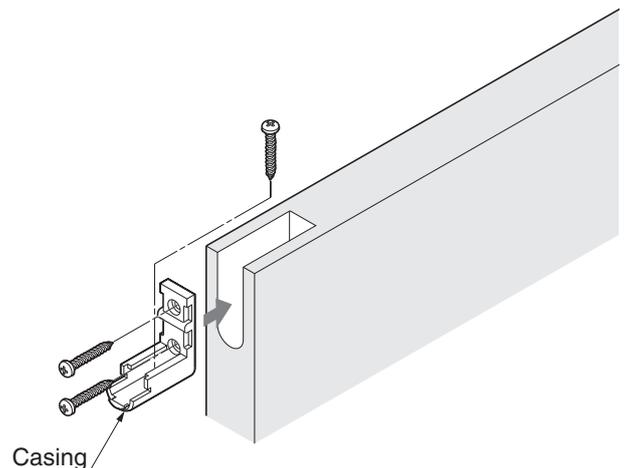
## 2 Removing Casing

One-way soft closer and upper roller: Separate main unit from casing.

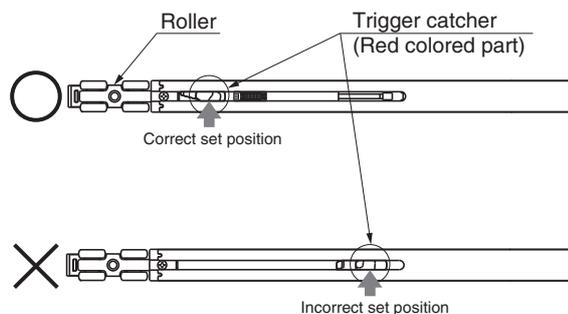


## 3 Installing Casing

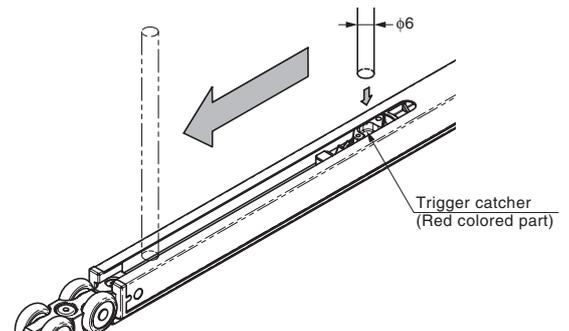
Fix upper roller firmly with attached screws.



## 4 Confirmation Before Installing One-way Soft Closer



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



### ⚠ CAUTION

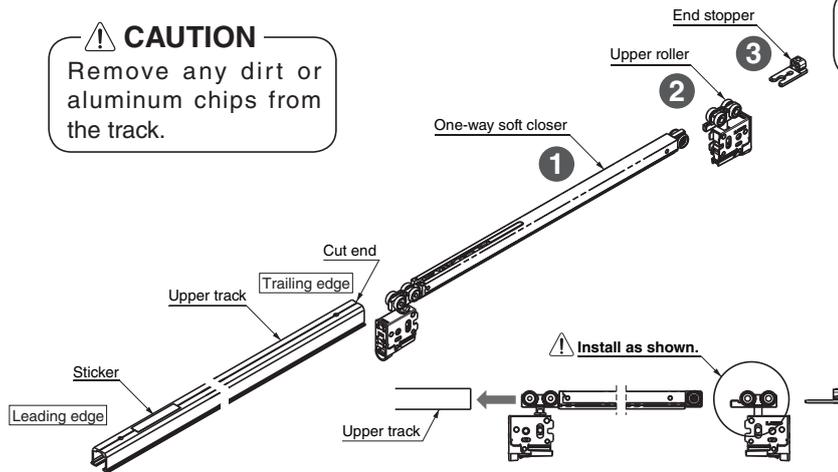
It may cause a failure of self-closing without confirmation of installation.

## 5 Inserting Parts to Upper Track

Insert the parts in order of ① to ③ with care of direction

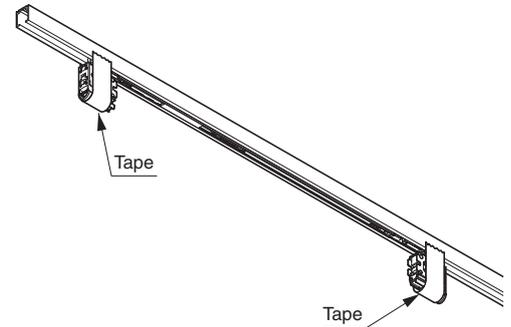
### CAUTION

Remove any dirt or aluminum chips from the track.



### CAUTION

Tape around upper roller and upper track to prevent drop of inserted parts.

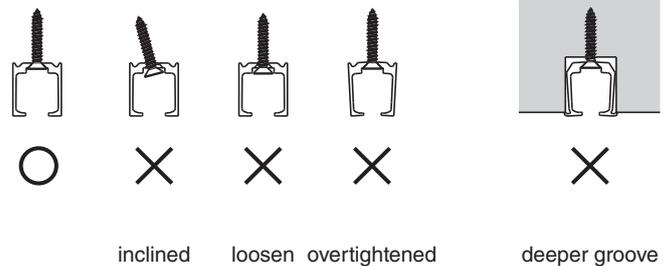
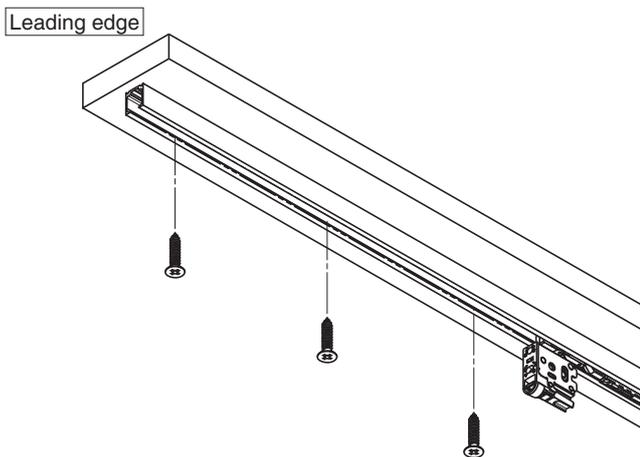


## 6 Fixing Upper Track

(Recommended screw: Countersunk head tapping screw 3.5x20)

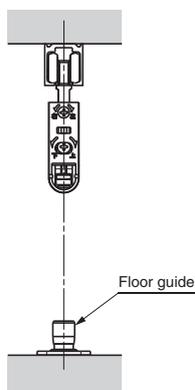
### CAUTION

Be careful not to overtighten the screws and screw head protruding on upper track. It may cause deformation of track or damage of soft closer.

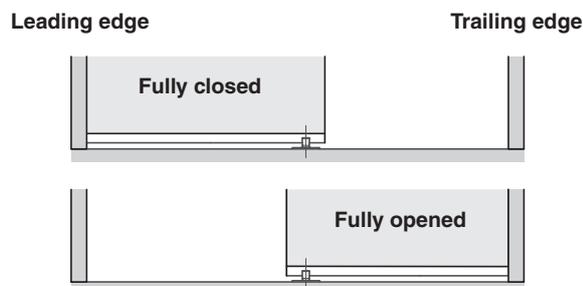


## 7 Fixing Floor Guide Temporarily

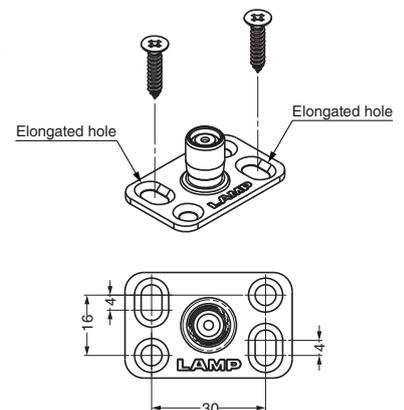
Position floor guide just below the center of upper track.



Position the floor guide so that its roller part stays under the door when it is opened or closed.

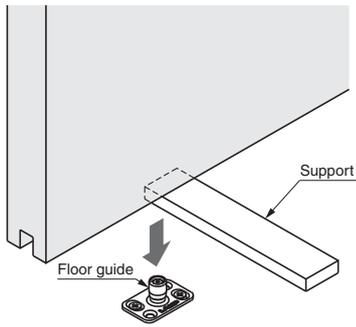


Fix two elongated holes with provided screws temporarily.

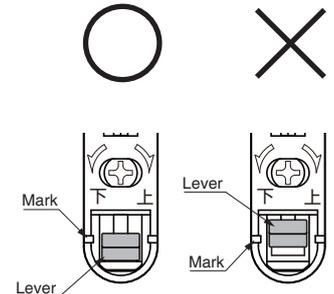
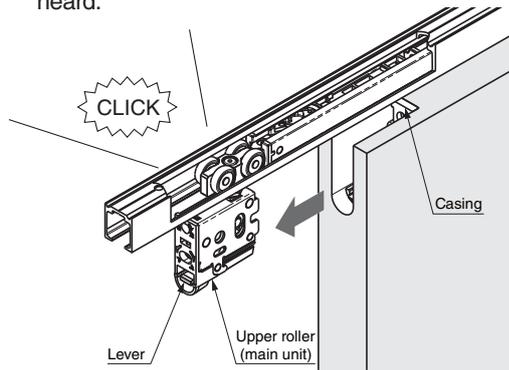


## 8 Hanging Door

Put a 10 mm support under the door. While holding the door, insert the floor guide in the groove under the door.



Insert upper roller into the casing until "click" sound is heard.



### CAUTION

Confirm that upper roller is not dislocated from casing, for both door sides.

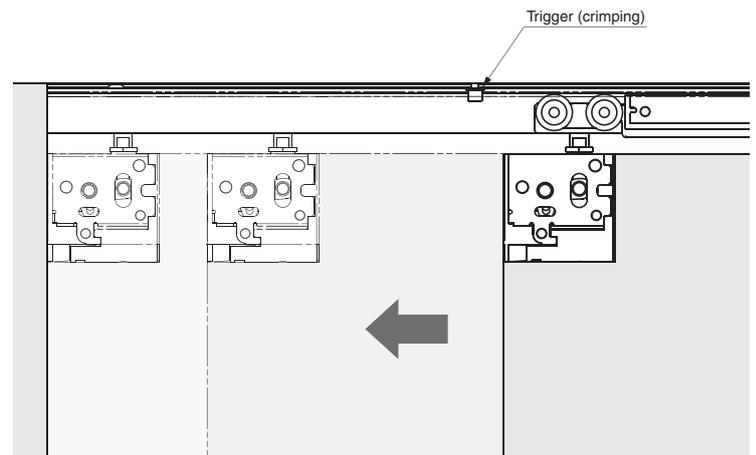
## 9 Confirmation of Soft Closer Operation

Remove the 10 mm support under the door. Close the door slowly and check soft closer works correctly. Approximately 100mm before door stopping vertical frame.

Please refer to "Troubleshooting" when soft closer does not work correctly,

### CAUTION

Do not close the door with excessive force. It may cause damage or defect of soft close mechanism.



## 10 Adjusting Door Position

Adjust door parallel to upper track with 6 – 13 mm clearance between door and floor.

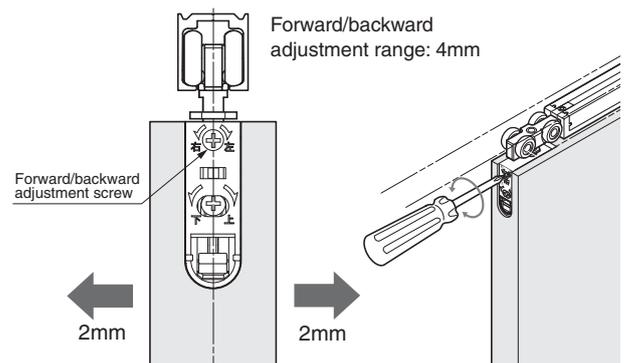
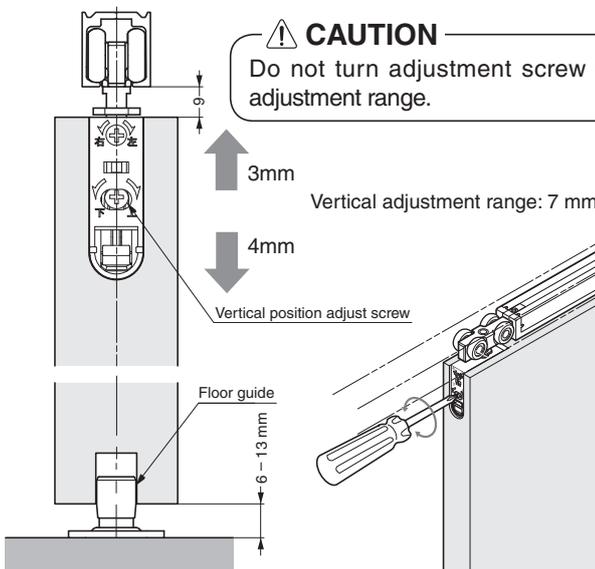
### CAUTION

Do not turn adjustment screw beyond adjustment range.



### CAUTION

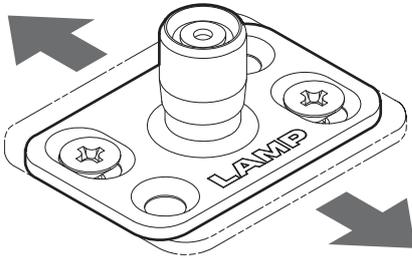
Do not use motor screw driver.



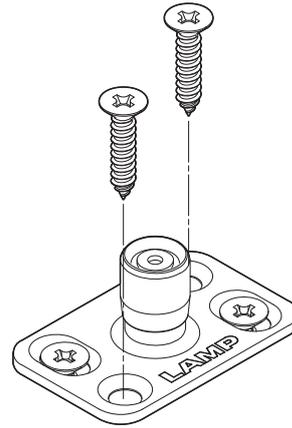
## 11 Adjusting, Fixing Floor Guide

If the door movement is not smooth, remove the door, then make a forward/backward adjustment on floor guide.

Adjustment range: 4mm



Tighten all 4 screws after the adjustment.

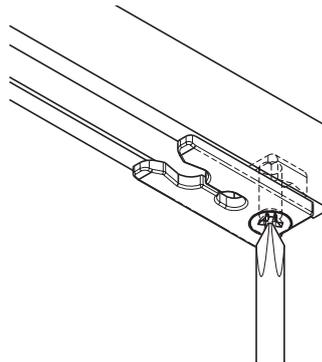
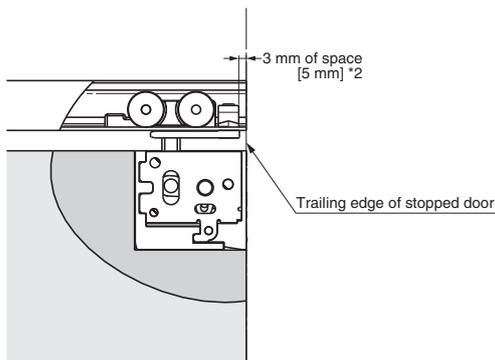


## 12 Fixing End Catch Position (Trailing edge)

Fix end catch at 3 mm from the position where door stops.

Adjust the position of end catch where it catches the hanger bolt of the roller when the door is stopped by vertical frame or door stopper.

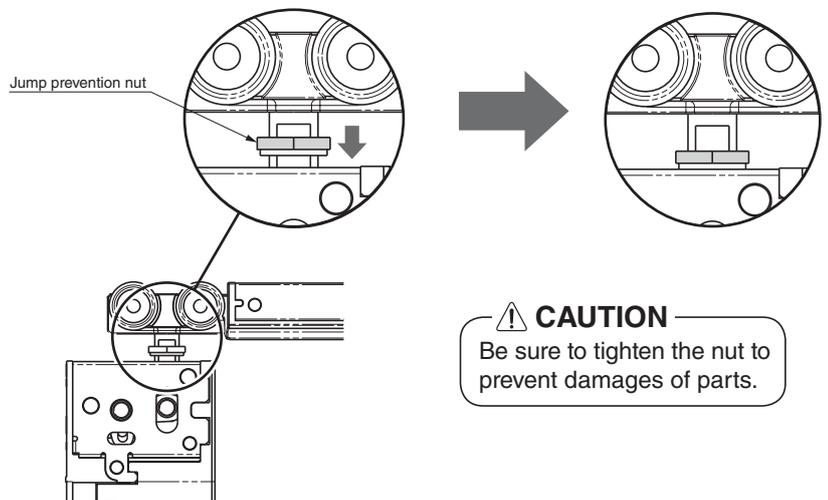
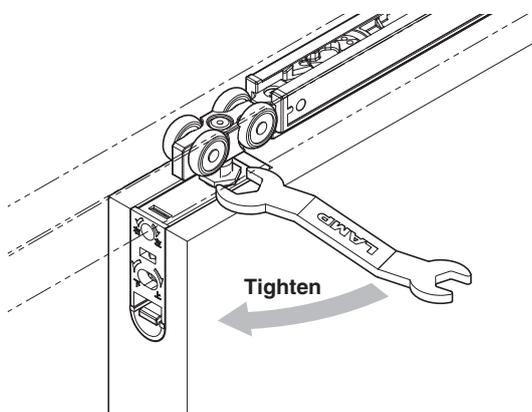
(\*2 5 mm when using cover cap)



**CAUTION**  
Do not overtighten the screw.  
It may deform the part.

## 13 Fixing Jump Prevention Nut

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

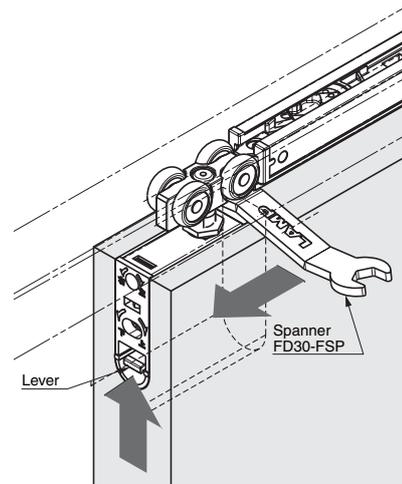


**CAUTION**  
Be sure to tighten the nut to  
prevent damages of parts.

## Supplement 1 How to remove door

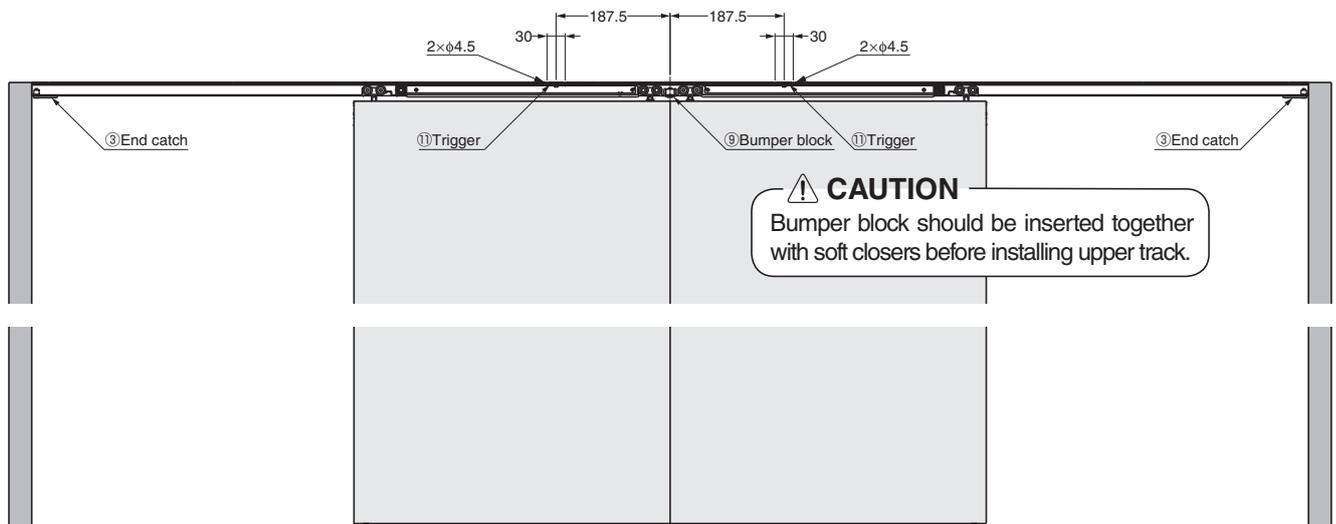
Use a 10mm support under the door.  
Then pull out the upper roller main unit from the door while raising the lever.

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



## Supplement 2 Dimensions for in line sliding

Process holes as below drawing and fix triggers.



**Final confirmation** Confirm that all screws are securely tightened. And, confirm that all screws are used without mistake.

**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 4.)	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 4.
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.
End catch does not work properly.	Check if roller is installed correctly.	If a roller for Two-way soft closer (FD35EV-WRH-N) is installed by mistake, jump prevention nut on the roller interferes with the end catch. Replace it with correct roller.

**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