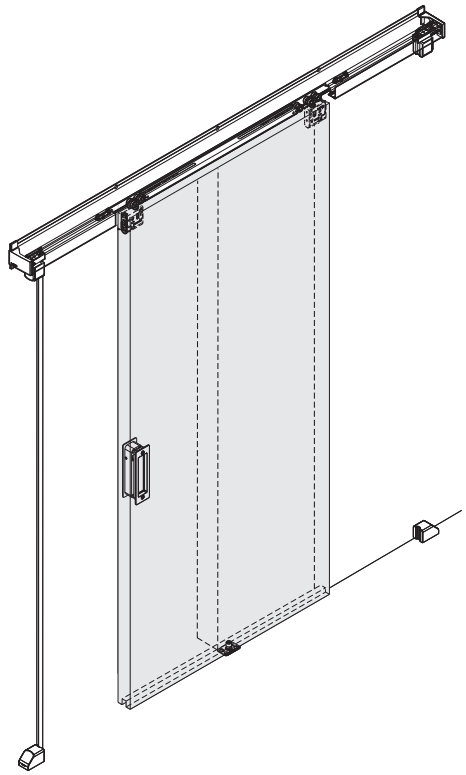
LAMP® FD35EV SLIDING DOOR SYSTEM Installation Manual (Outset Type with Two-way soft close)

Part No. : FD35EVDHCP-AK

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 an overlay indoor sliding door system.
- The door closes in a 2 soft motion steps; first slow, then fast, and opens with a 1 step soft motion.
- Easy door installation and adjustment.



SPECIFICATIONS

Max. Door height	2400 mm
Max. Door width	590 – 1200 mm
Min. Door thickness	30 – 36 mm
Max. Door weight	35 kg ※1
Vertical adjustment	3mm upward, 4 mm downward
Front-rear 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.
※1If a light weight door is applied, you may feel the resistance of the soft closer when opening the door.

FOR YOUR SAFE WORK AND CORRECT INSTALLATION

Meaning of symbols

Warning Caution	**Prohibited**	**Required**

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

- This (sliding door system) should be installed by a qualified person. If the system is not installed correctly, the door will not operate smoothly, and may cause injury.
- It is necessary to manufacture the frame with sufficient strength so that it endures the weight of the door and any impact upon opening/closing the door. Only use designated screws and ensure that they are fastened firmly. A frame with poor strength or loose screws might result in the door falling and causing injury.
- Do not use this product for any other purpose, or with doors that are outside the specifications of this manual.
- Do not disassemble nor modify any parts other than those described in this document.

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

- Make sure to follow the designated dimensions, specifications, and horizontal/vertical 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 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, make sure to test the finished product thoroughly to ensure that it is functioning and safe. 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

No.	①	②	③	④	⑤	⑥	⑦	⑧	⑨
Name	Upper track	Trigger	Side cover	Stopper plate	Screw for stopper plate	Soft Closer	Upper roller	Bumper block	Floor guide
Item No.	FD35EV-TRA	FD35EV-TRA-TRG	FD30-HASC			FD35EV-WRH-DSC	FD35EV-WRH-N	FD35EV-TRA-STP	FD50-BGR18
Item	2120 / 2420 / 2720mm Hole pitch: 300mm Pitch end: 10mm 1 pc	2 sets	L/R 1 ea	2 pcs	4 pcs	1 pc	1 pc	2 pcs	1 pc
Accessory	Countersunk head tapping screw 4×40	Countersunk ϕ6 head screw 4×10····4 pcs Nut M4 4 pcs	Screws for stopper plate are attached to ③ above. (2 pcs/set)			Pan head tapping screw 3.8×30·····3 pcs	Pan head tapping screw 3.8×30·····3 pcs	Pan head tapping screw 4×30 2 pcs pan head screw M4×12 2pcs Nut M4 2pcs	Countersunk head tapping screw 4×20·····4 pcs
	—	—	—	—	Countersunk head screw 4×25 (D6)	—	—	—	—

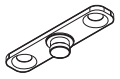
No.	⑩
Name	Door stopper (floor)
Item No.	FD35EV-FSTP
Item	2 pcs
Accessory	Pan head tapping screw4×30 ·····3pcs —

OPTIONAL PARTS

No.	⑪	⑫
Name	Cover cap	Door guide track
Item No.	FD30-WRH-CP	FD30-HBRT1500SIL
Item	t=2	Hole pitch: 250 mm Pitch end: 30 mm

ACCESSORY : Spanner FD30-FSP

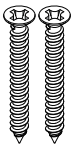
The parts below which are packed with soft closer ① are not needed for this application.



Trigger

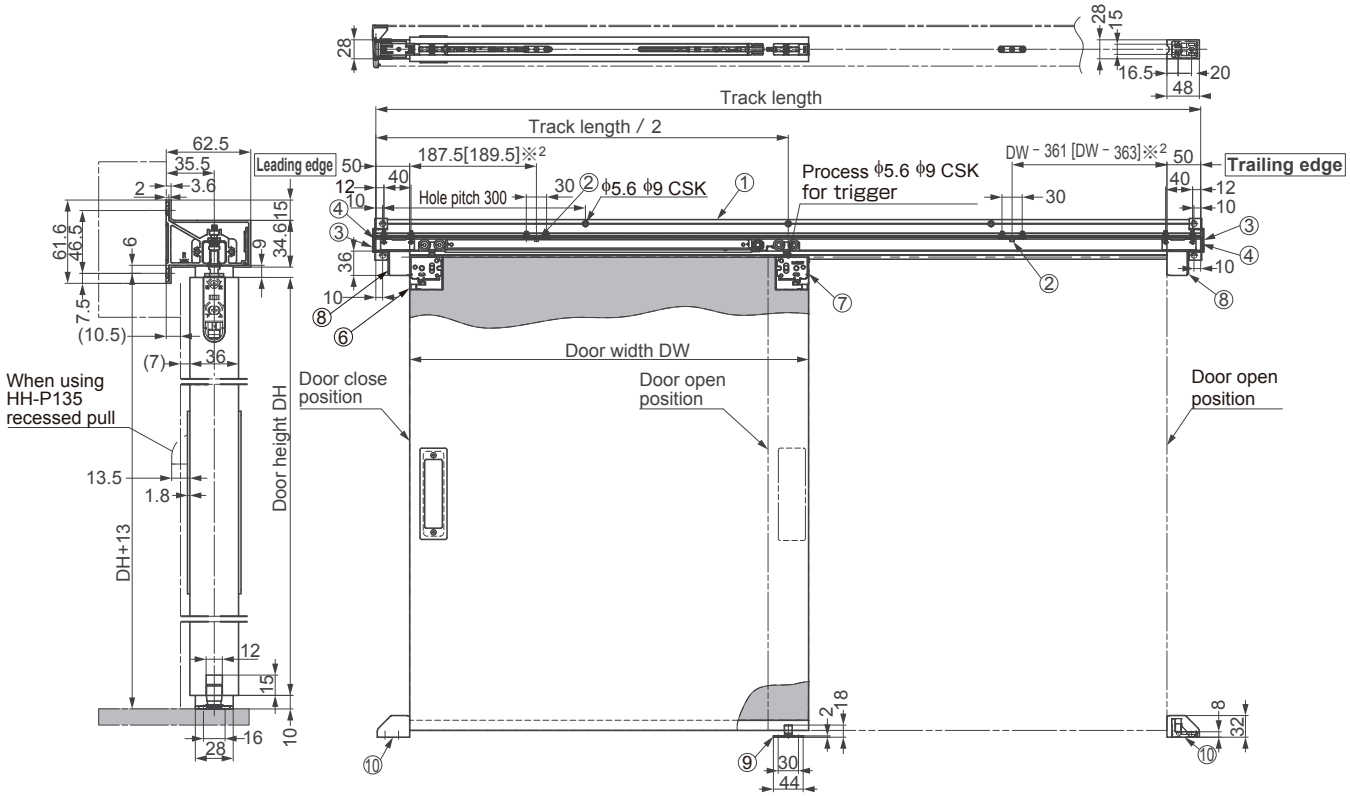


Trigger Jig



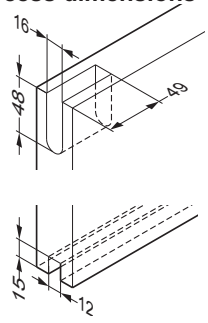
Countersunk head tapping screws 4 × 30 D6 : 4 pcs

INSTALLATION DRAWING(EXAMPLE)

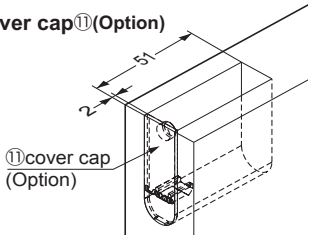


※2 [ ] When Cover cap ⑪ (Option) is used

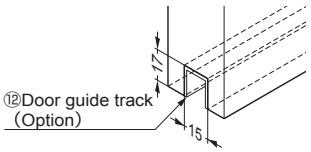
Door process dimensions



When cover cap⑪(Option) is used



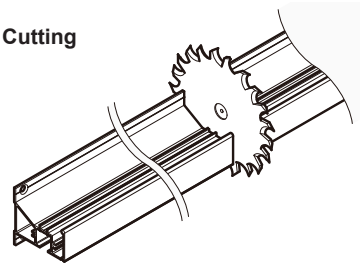
When using door guide track ⑫ (Option)



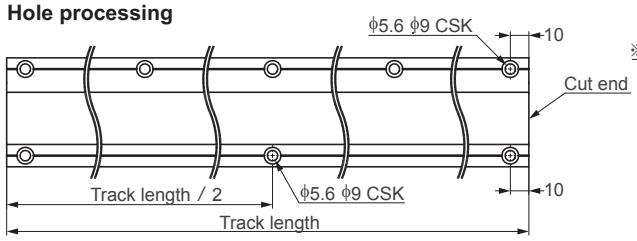
SUGATSUNE

1 Cutting and Providing Hole on Upper Track

Cutting

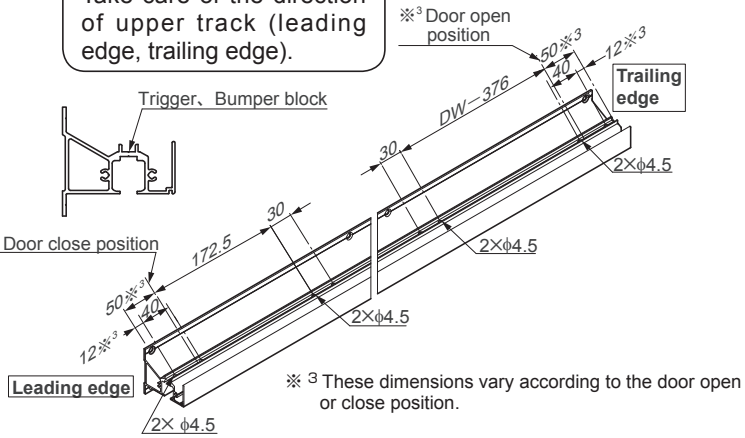


Hole processing



Processing holes for trigger

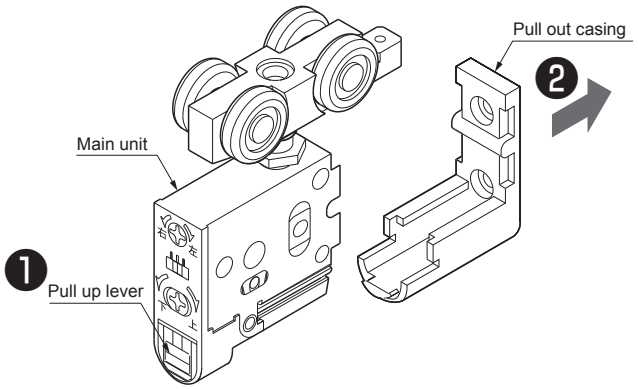
⚠ Take care of the direction of upper track (leading edge, trailing edge).



※3 These dimensions vary according to the door open or close position.

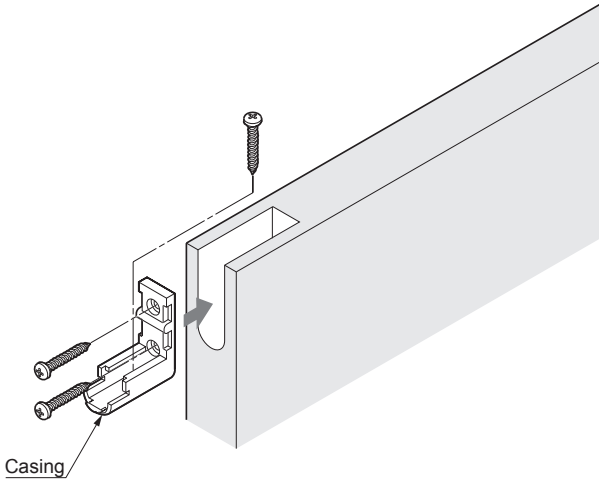
2 Preparation of mounting parts

Upper roller: Separate main unit from casing.



3 Installing Casing

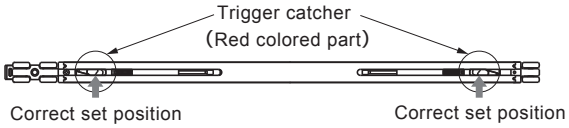
Fasten the casing firmly with the provided screws.

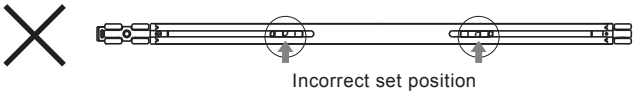


4 Verification Before Installing Soft Closer

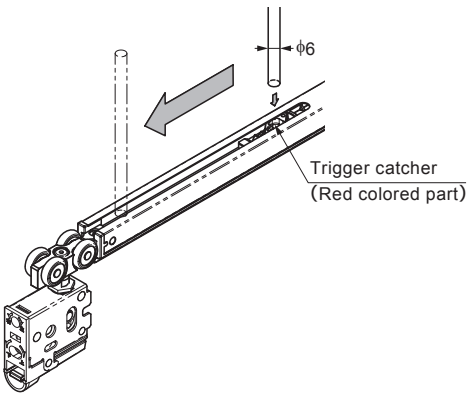
⚠ Without verification the self closing feature may fail.

OK





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

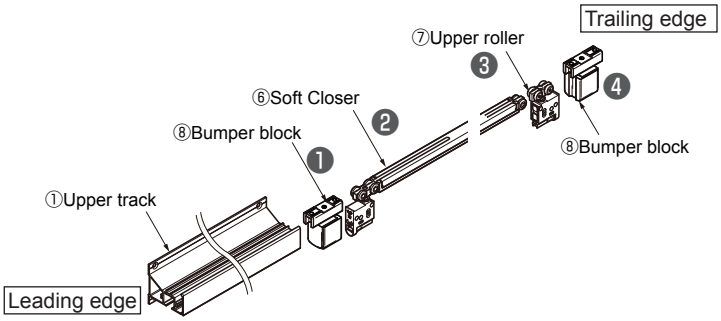


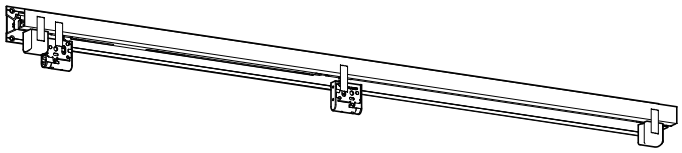
5 Inserting Parts into Upper Track

Insert the parts in order from ❶ to ❹ with care of direction.

Remove any dirt or aluminum chips from the track.

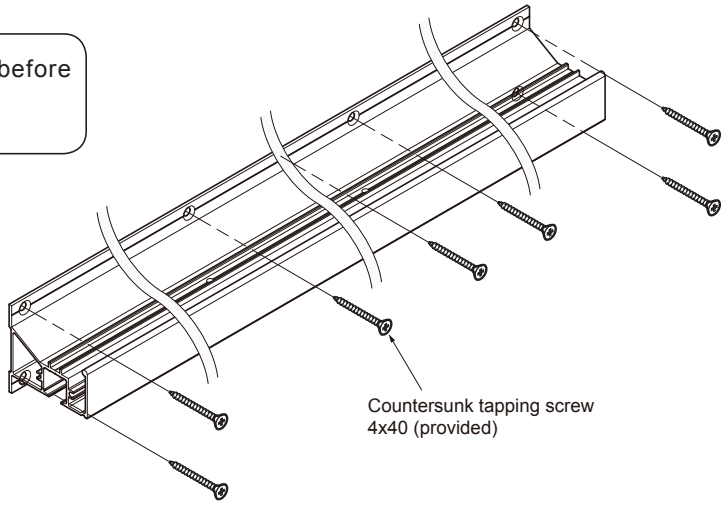
Fasten bumper blocks temporarily to prevent the inserted parts from falling.





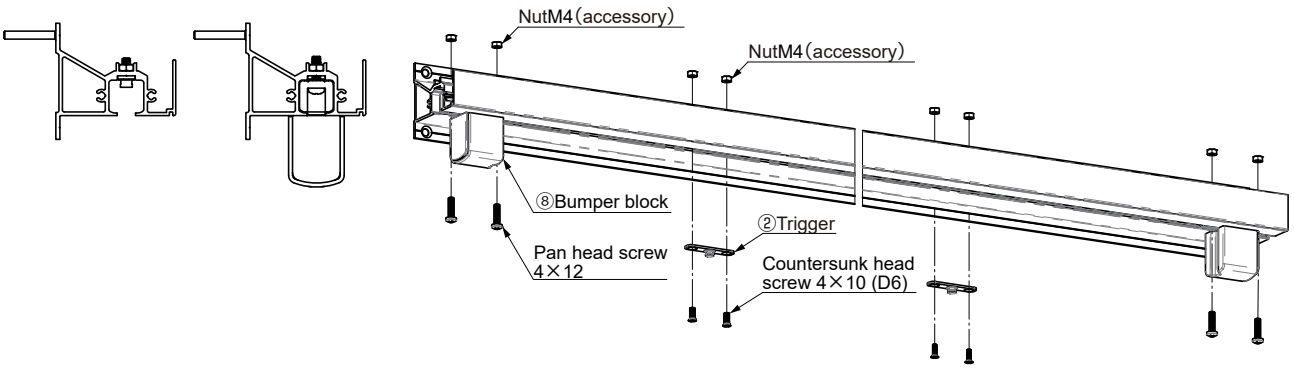
6 Fixing Upper Track

Verify that the upper track is set horizontally before fastening.
Remove any dirt or aluminum chips from the track.

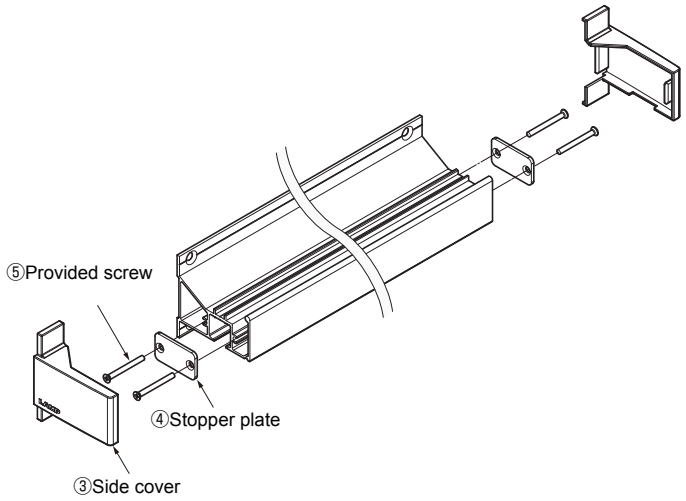


7 Installing Trigger and Bumper Block

Fasten triggers and bumper block to the hole made during procedure 1 with the provided nuts.

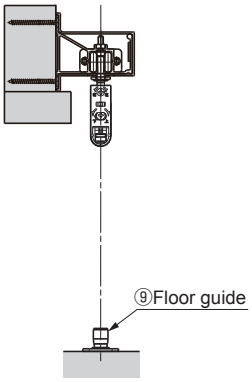


8 Assembling Side Cover

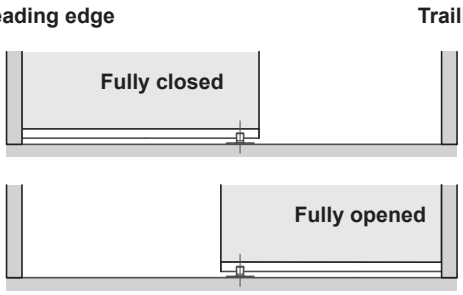


9 Fixing Floor Guide Temporarily

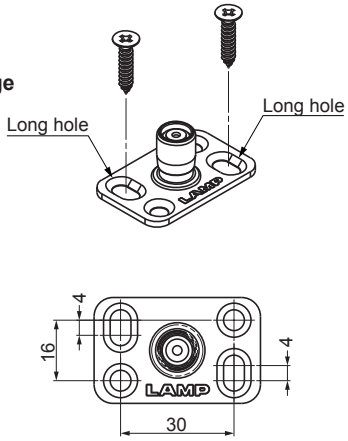
Position floor guide just below the center of upper track.



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

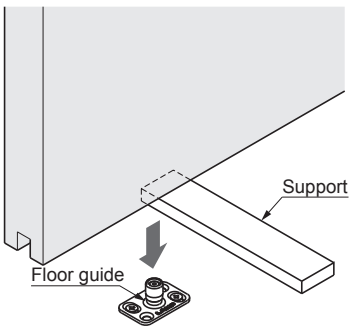


Fasten the two elongated holes with provided screws.

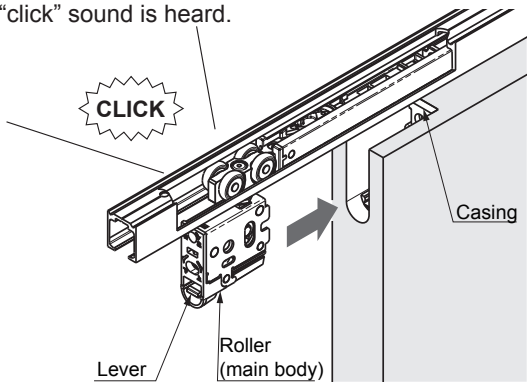


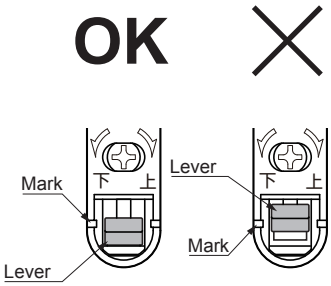
10 Hanging Door

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



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





⚠ Verify that the roller is not dislocated from the casing, for both door sides.

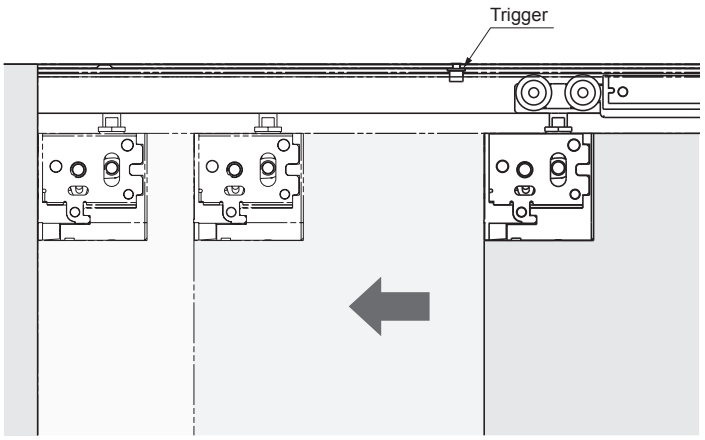
11 Verification of Soft Closer Operation

Remove the 10 mm support from under the door.

The soft closer is engaged approximately 100 mm at the leading edge (or 50 mm at the trailing edge) before the door reaches its final position.

Please refer to the “Troubleshooting” section. when the soft closer does not work correctly.

Do not close the door with excessive force. It may cause damage to the soft close mechanism.



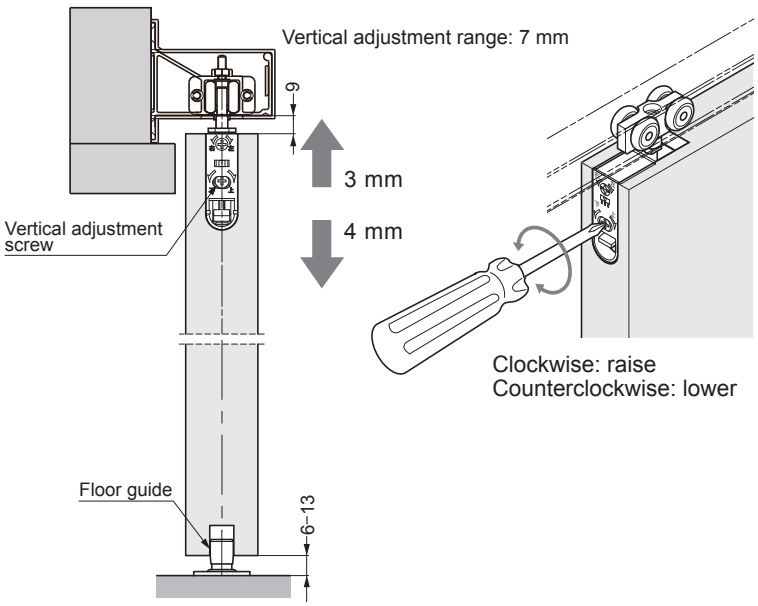
12 Adjusting Door Position

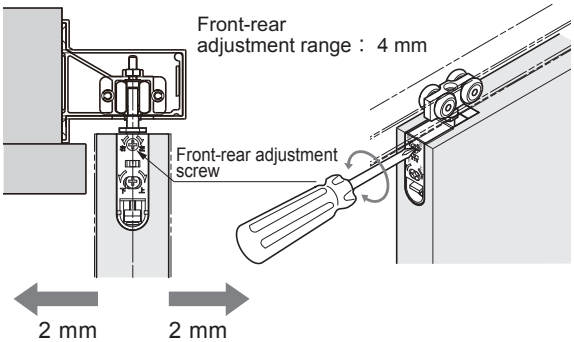
Adjust the door parallel to the upper track with 6-13 mm of clearance between the door and floor.

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 screwdriver.

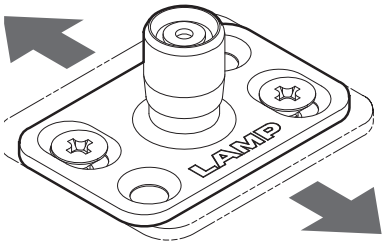




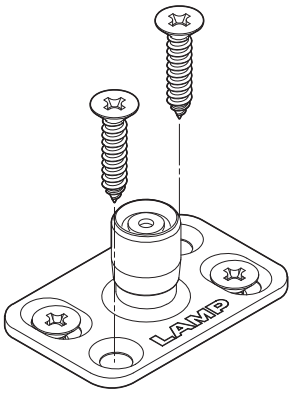
13 Adjusting the floor guide: adjustment range is 4 mm.

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

adjustment range： 4 mm

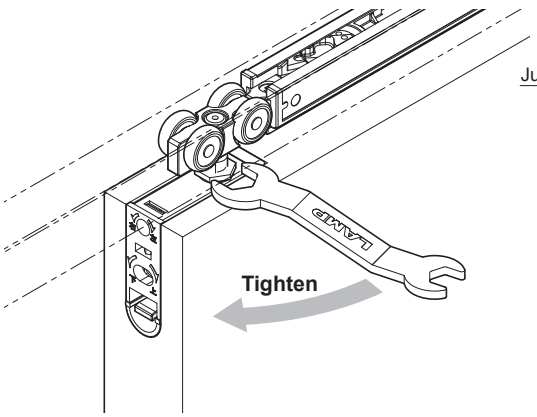


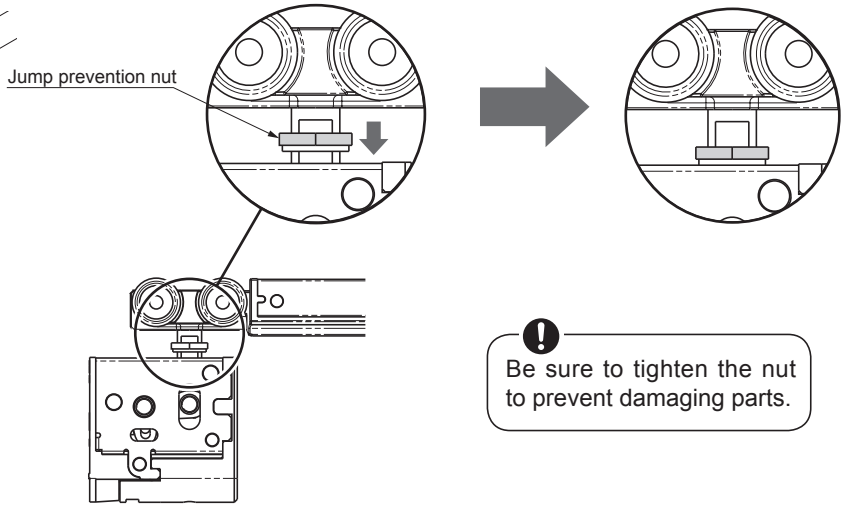
Tighten all four screws after the adjustment.



14 Fastening the Jump Prevention Nut

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

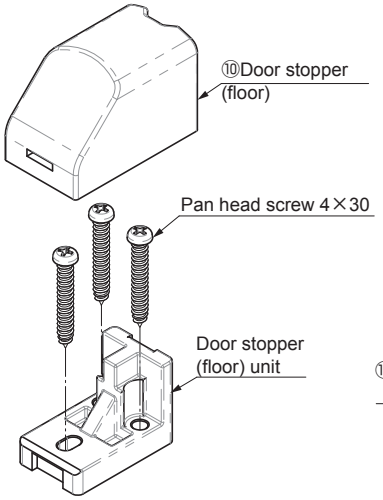


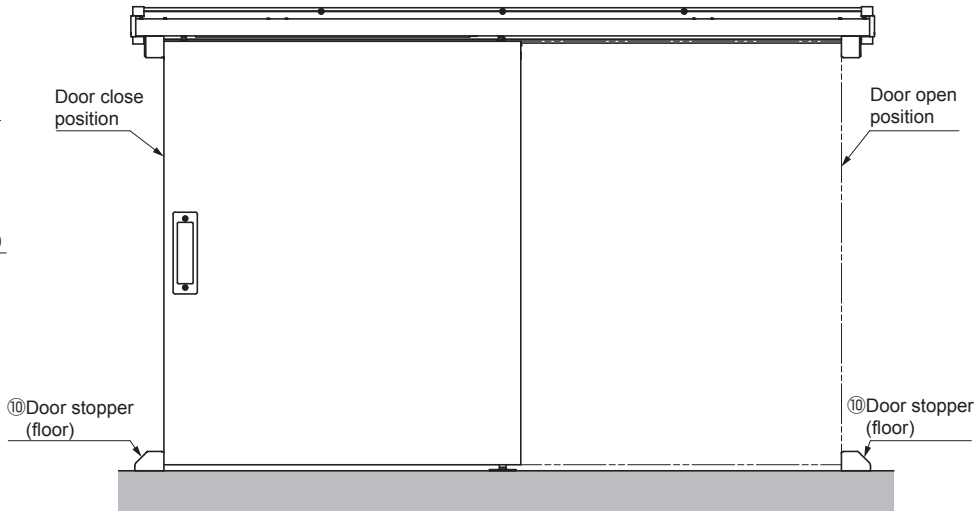


Be sure to tighten the nut to prevent damaging parts.

15 Installing door stopper (floor)

Fasten door stoppers at the positions where the door stops.





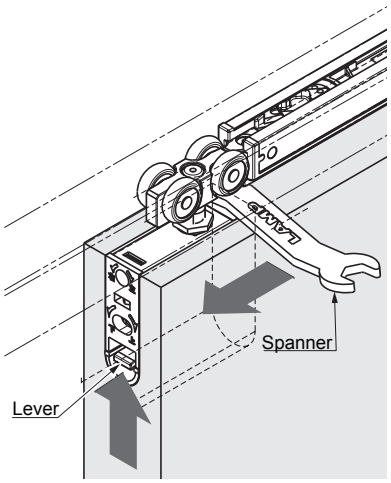
Supplement How to remove door

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.

⚠ Pay attention not to let the door fall.



Final verification	Verify that all screws are securely tightened, and verify that all screws have been used.

PERIODICAL INSPECTION	・Clean inside of track. ・Check upper and lower gaps between the door and frame. If necessary, adjust the gaps.

■ TROUBLESHOOTING

Trouble	Checkpoint	Solution
Door stops during soft closing.	Check if door bottom contacts the floor.	Verify that the track fixing screws are not loosened. Then, adjust the door height such that the clearance between the door bottom and floor is 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 as it may damage soft closer.
	The position of the trigger catcher may become dislocated (See section 4.)	Slowly move the door toward the leading edge, then push the door firmly. Repeat this action on the opposite side as well. If it is still not improved, check the status of the trigger catcher in section 4.
Abnormal noise during operation	Check if door bottom contacts the floor.	Verify that the track fixing screws are not loosened. Then, adjust the door height such that the clearance between the door bottom and floor is 6 - 13 mm.
	Check if door touches adjacent 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 with other objects. Adjust position of floor guide or stopper.
	Check if door bottom contacts the floor.	Verify that the track fixing screws are not loosened. Then, adjust the door height such that the clearance between the door bottom and floor is 6 - 13 mm.
Door starts to move.	Check if the upper track is set horizontally.	Using a level gauge, reset upper track horizontally.

SUGATSUNE KOGYO CO.,LTD
Tokyo, JAPAN
Phone: +81 (0)3 3866 2260 E-mail:export@sugatsune.co.jp

SUGATSUNE KOGYO (UK) LTD
Reading, UK
Phone: +44 118 9272 955 E-mail:sales@sugatsune.co.uk

SUGATSUNE EUROPE GmbH
Düsseldorf, GERMANY
Phone: +49 211 53812900 E-mail:sales@sugatsune.eu

SUGATSUNE SHANGHAI Co., LTD
Shanghai, CHINA
Phone: +86 21 3632 1858 E-mail:lamp@sugatsune.com.cn

Guangzhou, CHINA
Phone: +86 20 6639 3552 E-mail:lamp@sugatsune.com.cn

SUGATSUNE KOGYO INDIA PRIVATE LIMITED
Mumbai, INDIA
Phone: +91 22 28314490/91 E-mail:sales@sugatsune.in

SUGATSUNE AMERICA, INC
California, USA
Phone: +1 310 329 6373 E-mail:sales@sugatsune.com

Chicago, USA
Phone: +1 312 461 1081 E-mail:chicagoshowroom@sugatsune.com.

SUGATSUNE CANADA, INC.
Phone: +1 514 312 5267 E-mail:support@sugatsune.ca

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