

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

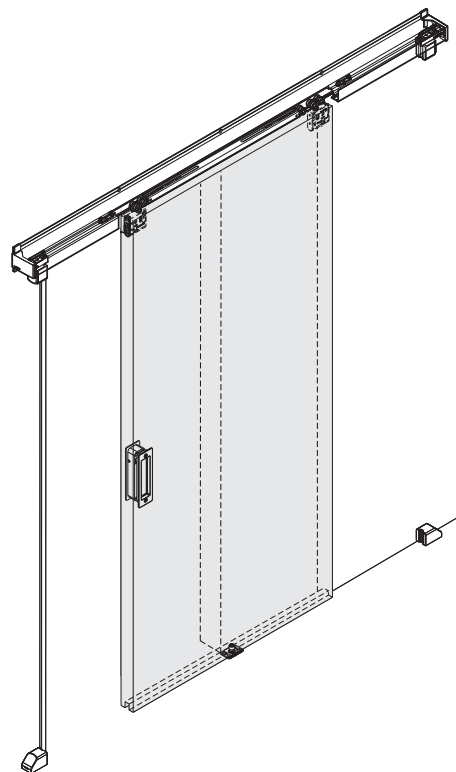
- This is a parts set for a sliding door system for residential & commercial use.
- The door closes in a 2 soft motion steps; first slow, then fast, and opens with a 1 step soft motion.
- The door can be installed without the use of tools.

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 | 3 mm 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.

※¹ When using a light weight door, 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 |
|--|---|---|



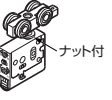
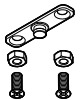
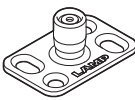
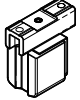


WARNING: If not followed, death or serious injury may result.

- ❗ This 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.

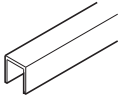

Caution: If not followed injury or damage may result.

- ❗ 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).

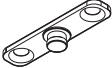
COMPONENT PARTS


| No. | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ |
|-----------|---|--|--|--|--|---|---|--|
| Name | Upper track | Soft Closer (two-way) | Upper roller | Trigger | Floor guide | Door stopper (for upper track) | Door stopper (floor) | Side cover |
| Item No. | FD35EV-TRA | FD35EV-WRH-DSC | FD35EV-WRH-N | FD35EV-TRA-TRG | FD50-BGR18 | FD35EV-TRA-STP | FD35EV-FSTP | FD30-HASC |
| Item | 2120 / 2420 / 2720 mm Hole pitch: 300 mm Pitch end: 10 mm  1 pc |  1 pc |  ナット付 1 ケ |  2 sets |  1 pc |  2 pcs |  2 pcs |  L/R 1 ea |
| Accessory | Countersunk head tapping screw 4×40 | Flat head tapping screw 3.8×30.....3 pcs | Flat head tapping screw 3.8×30.....3 pcs | Countersunk φ 6 head screw 4×10.....4 pcs Nut M4 4 pcs | Countersunk head tapping screw 4×20.....4 pcs | Pan head tapping screw 4×30 2 pcs pan head screw M4×12 2pcs Nut M4 2pcs | Pan head tapping screw 4×30... 3pcs | Stopper plate Screw |
| | — | — | — | — | — | — | — | Countersunk head screw 4×25 (D6) |

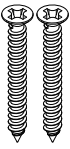
ACCESSORY : Spanner FD30-FSP

| | | | |
|----------------|----------|---|---|
| OPTIONAL PARTS | No. | ⑨ | ⑩ |
| | Name | Door guide track | Cover cap |
| | Item No. | FD30-HBRT1500SIL | FD30-WRH-CP |
| | Item |  Hole pitch: 250 mm Pitch end: 30 mm |  t=2 |
| | Remarks | Recommended screw: Countersunk head tapping screw 4×20 | — |

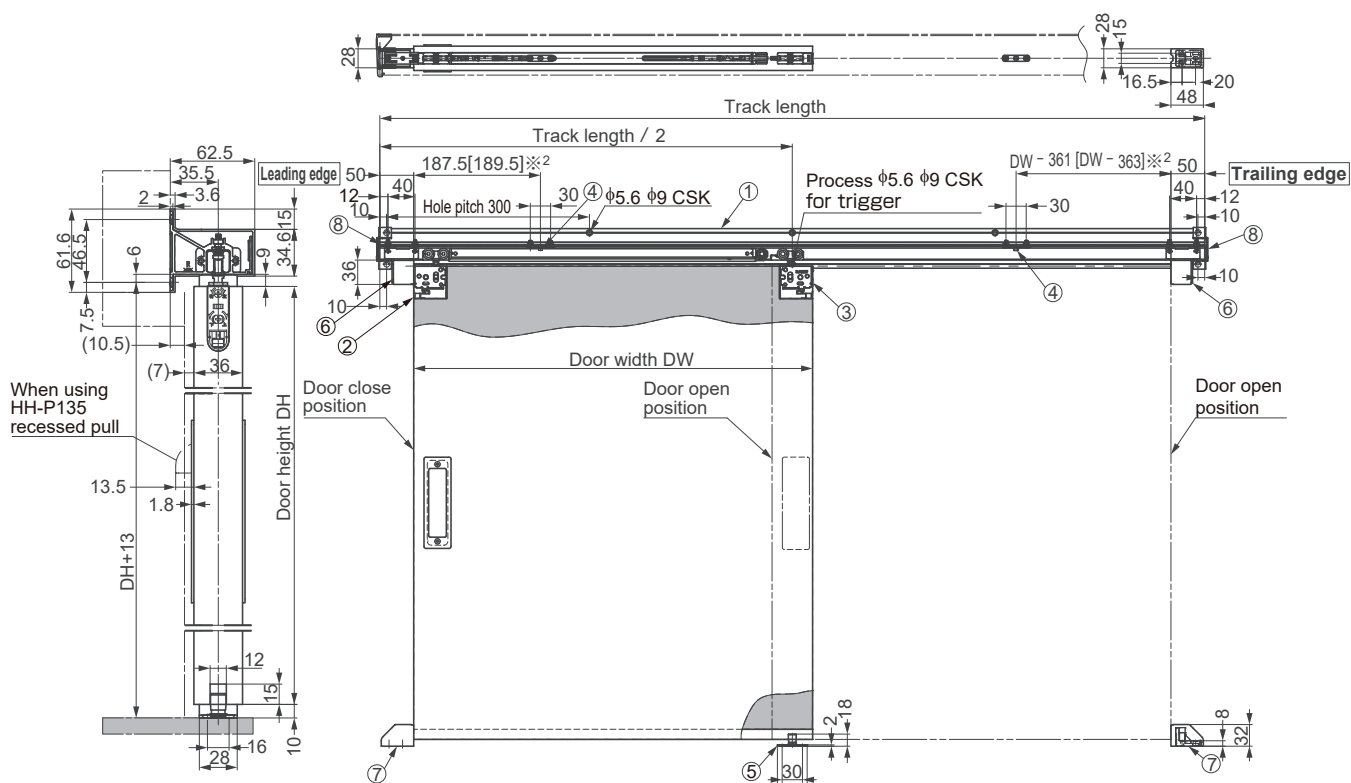
✗ The parts below which are packed with soft closer ① are not needed for this application.


Trigger


Trigger Jig

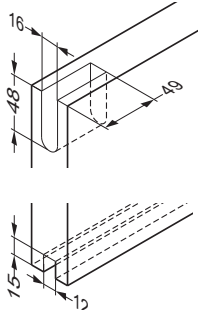

Countersunk head tapping screws 4 × 30 D6 : 4 pcs

INSTALLATION DRAWING(EXAMPLE)

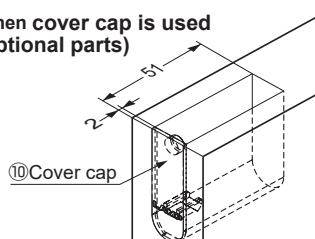


※ [] When Cover cap ⑩ (Optional parts) is used

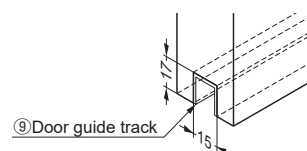
Door process dimensions



When cover cap is used (Optional parts)



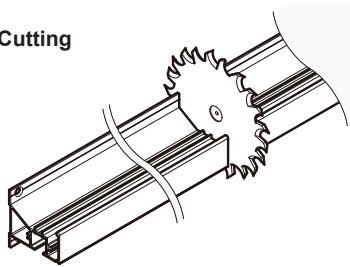
When door guide track is used (Optional parts)



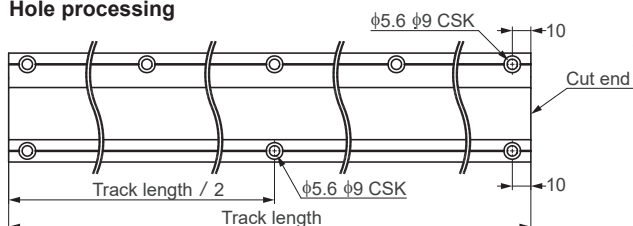
INSTALLATION PROCEDURE

1 Cutting and Hole Drilling on Upper Track

Cutting

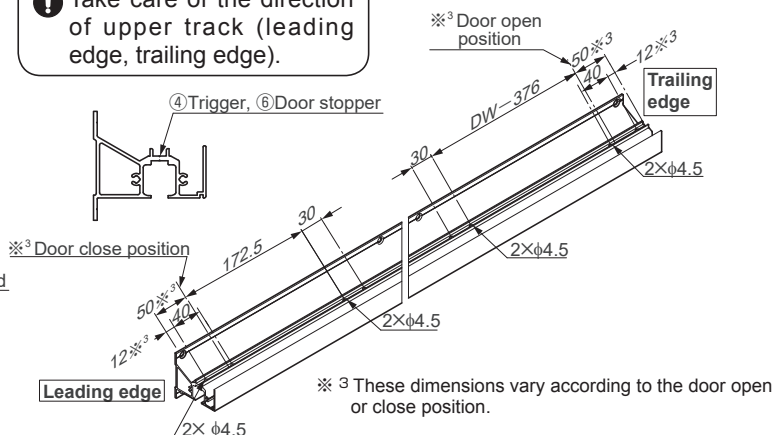


Hole processing

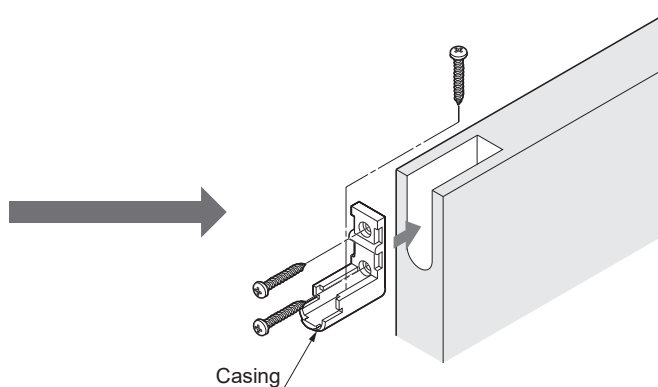
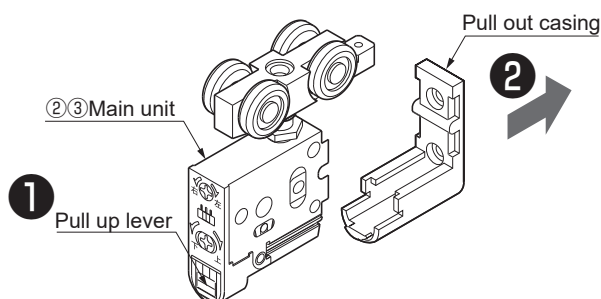


Processing holes for trigger

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



2 Mounting Parts on Door



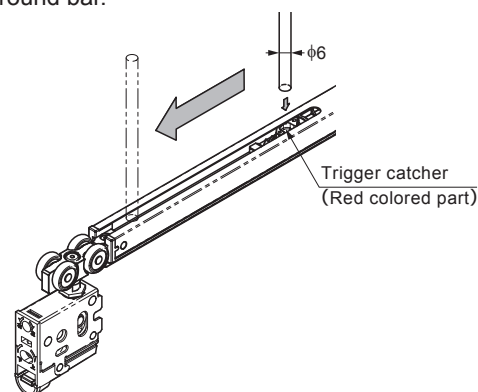
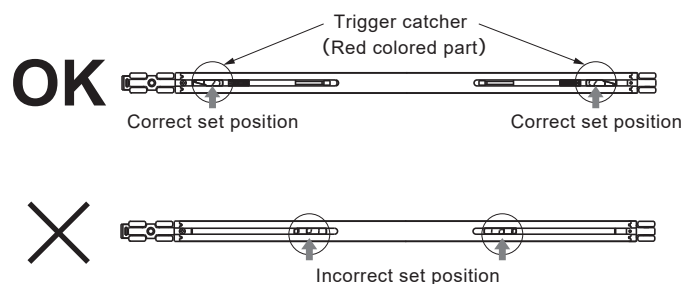
3 Verification Before Installing Soft Closer

CAUTION
Without verification the self closing feature may fail.

VIDEO LINK

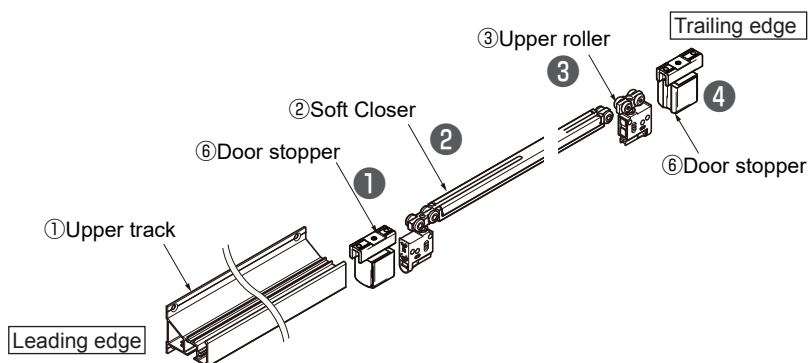


If the trigger position is wrong, pull back the trigger catcher to the correct position using a 6 mm diameter round bar.



4 Inserting Parts into Upper Track

Insert the parts in order from ① to ④ with care of direction.

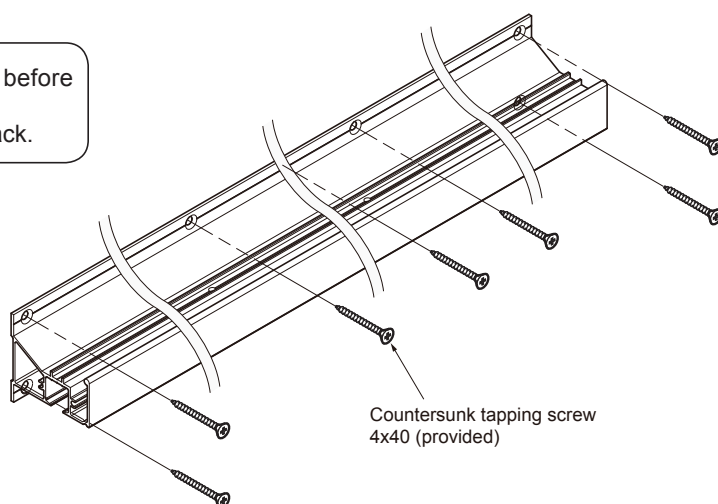


CAUTION

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

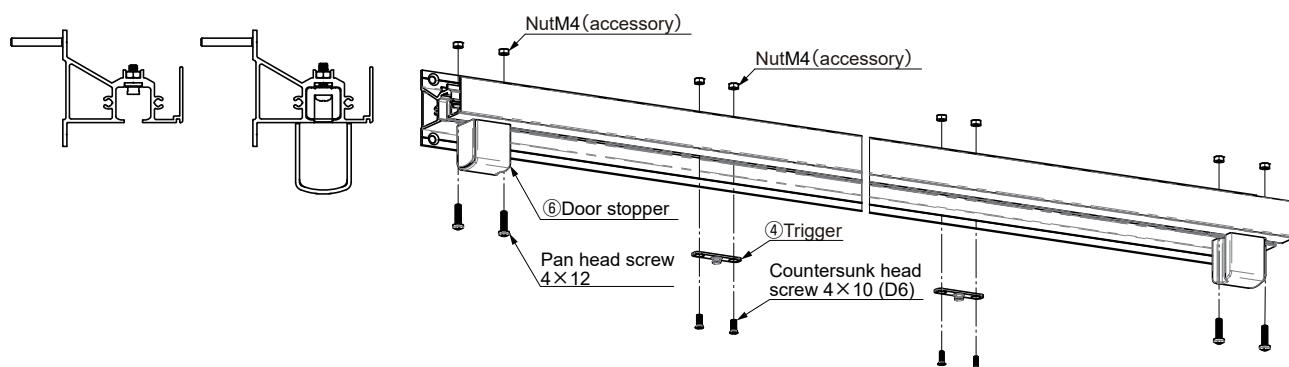
5 Mounting of Upper Track

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

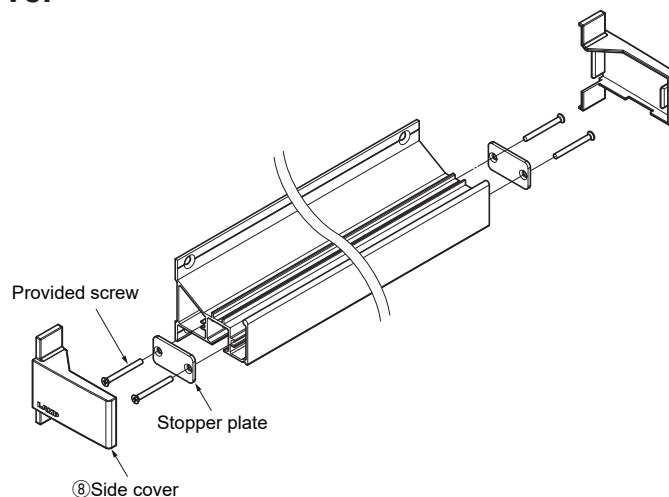


6 Fastening of Trigger and Door Stopper

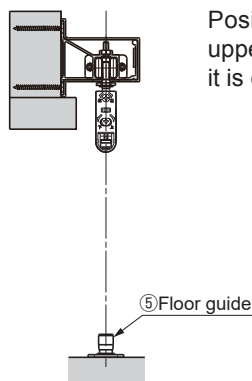
Fasten triggers and door stopper to the hole made during procedure ① with the provided nuts.



7 Assembly of Side Cover

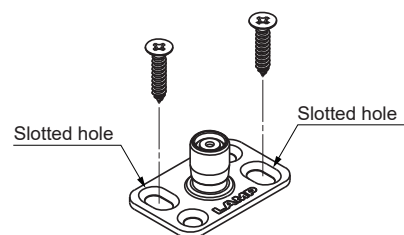
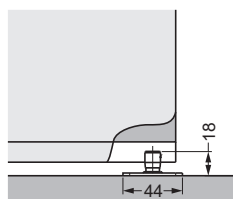


8 Mounting of Floor Guide Temporarily



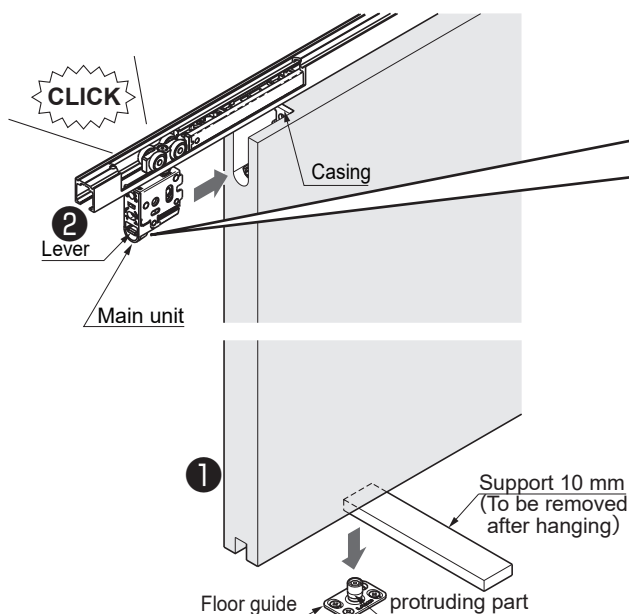
Position the floor guide below the center of the upper track so that it is covered by the door when it is opened and closed.

Temporarily fasten through the slotted holes with the provided screws.

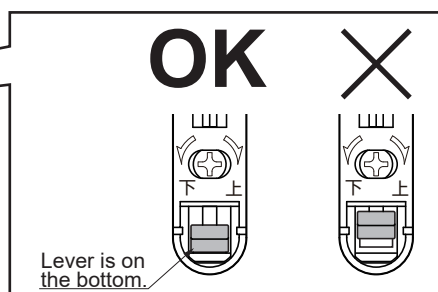


9 Hanging Door

- ① Place a 10 mm support under the door.
- ② 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, 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.
Trigger edge : approx. 50 mm before the stop position.

10 Adjusting the Door Position

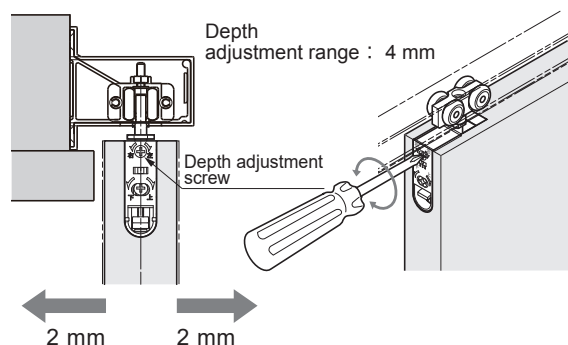
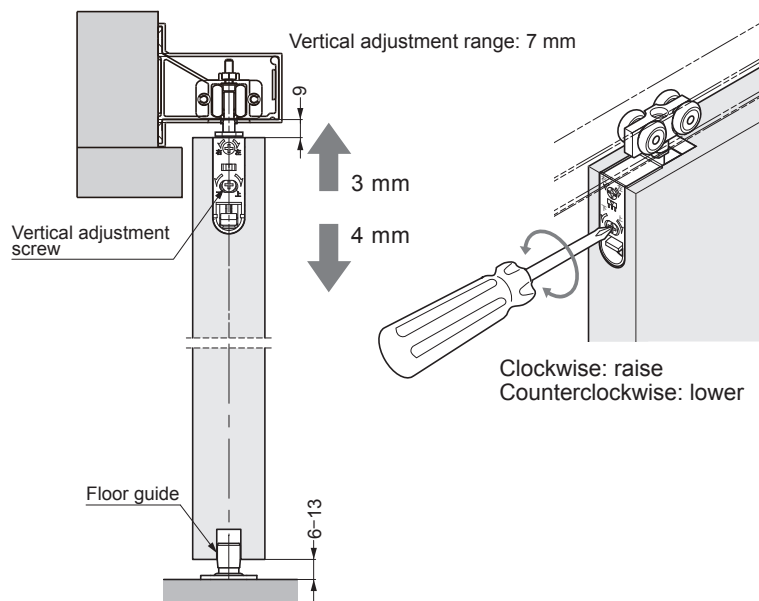
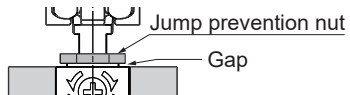
Adjust the door parallel to the upper track with 6-13 mm of clearance between the door and floor.

⚠ CAUTION

- ❗ Do not turn the adjustment screw beyond adjustment range.

- ⊘ Do not turn adjustment screw beyond adjustment range.

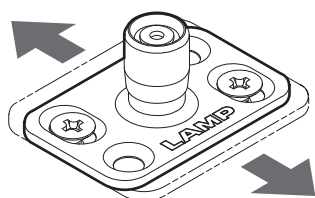
- ⊘ Do not use electric screw driver.



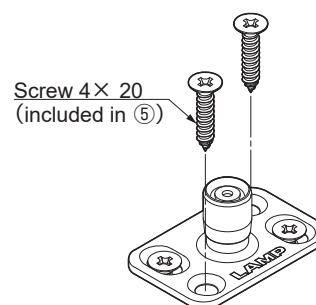
11 Adjusting, Fastening the Floor Guide

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

Fasten all 4 screws after the adjustment.

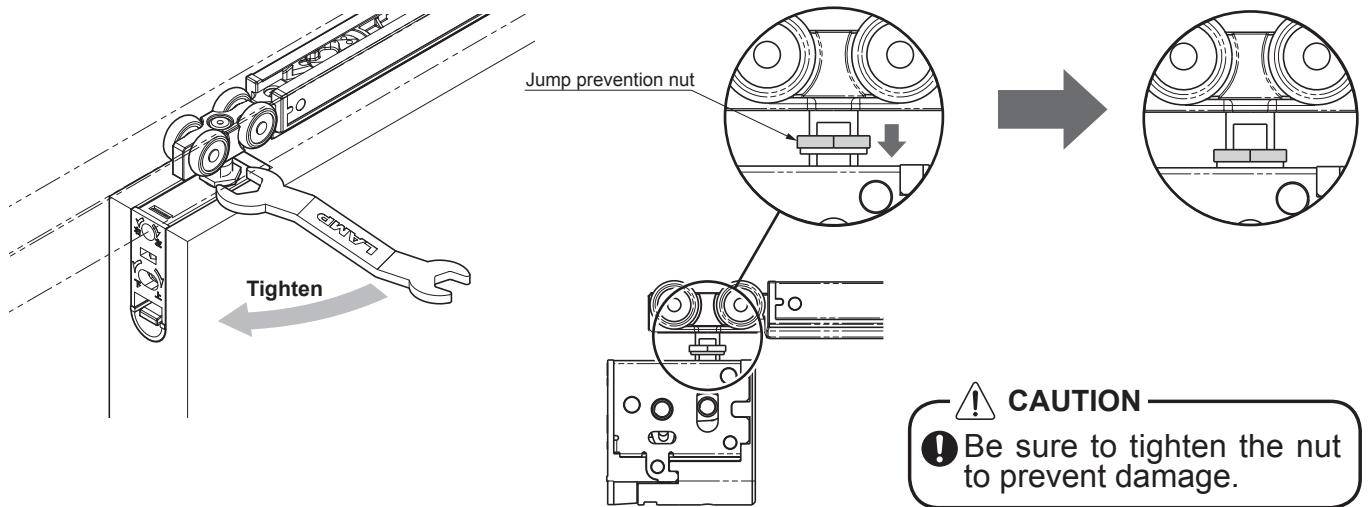


Adjustment range: ± 2 mm



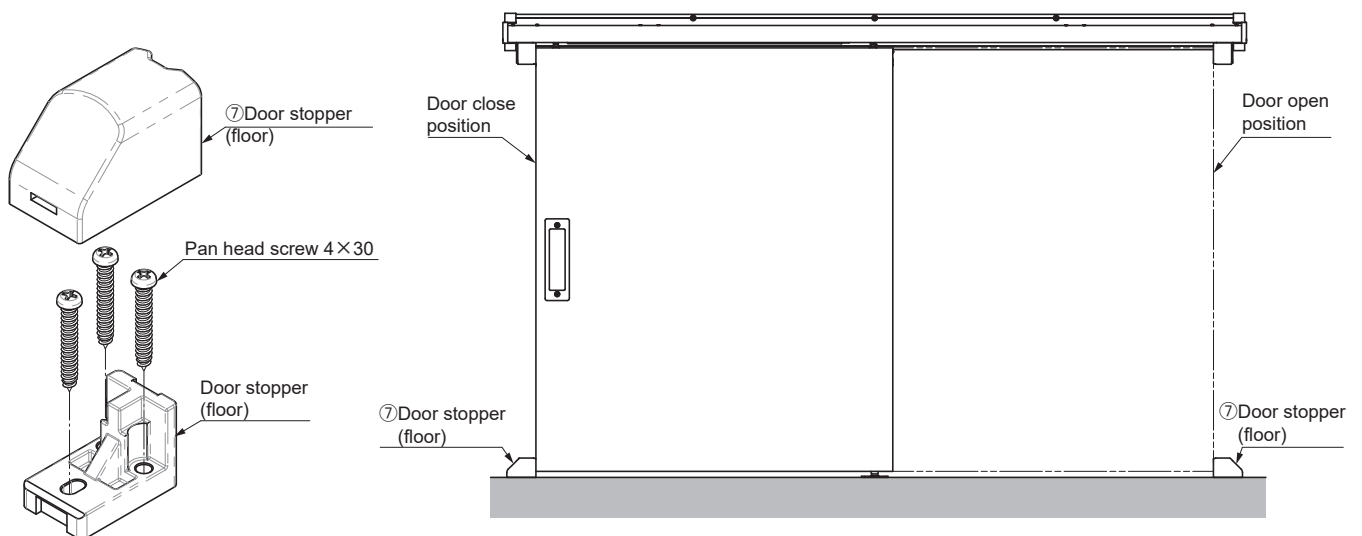
12 Fastening the Jump Prevention Nut

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.



13 Mounting of door stopper (floor)

Fasten door stoppers at the positions where the door stops.



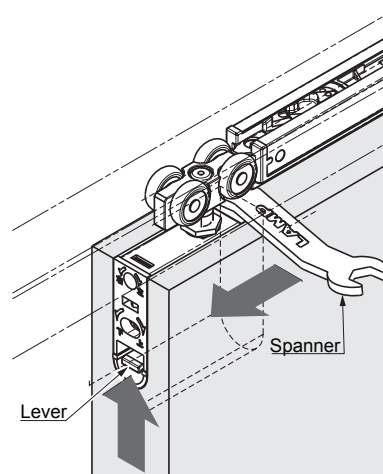
APPENDIX How to remove door

Use a 10 mm 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.

CAUTION
Be careful not to let the door fall.



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 with floor or floor guide. | 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 the upper track horizontally. |
| | Check if mohair seal is installed. | Reduce the friction between mohair 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 soft closer. |
| | The position of the trigger catcher in page 3 section 8 may become dislocated (It is hidden as installed in upper track.) | 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 8. |
| Abnormal noise during operation | Check if door bottom contacts the floor or floor guide. | Adjust the door height such that the clearance between the door bottom and floor is 6 - 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 and pull out the roller. Then, clean 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. |
| | Check if door bottom contacts the floor or floor guide. | 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 the upper track horizontally. |

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