

Installation Manual

FD50SP SLIDING DOOR SYSTEM

LAMP®

Outlet Type with Two-way soft close

Part No : FD50SPDHCP-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.
- Built in soft closer enables two-way soft closing movement in both direction.
- The door can be installed without the use of tools.

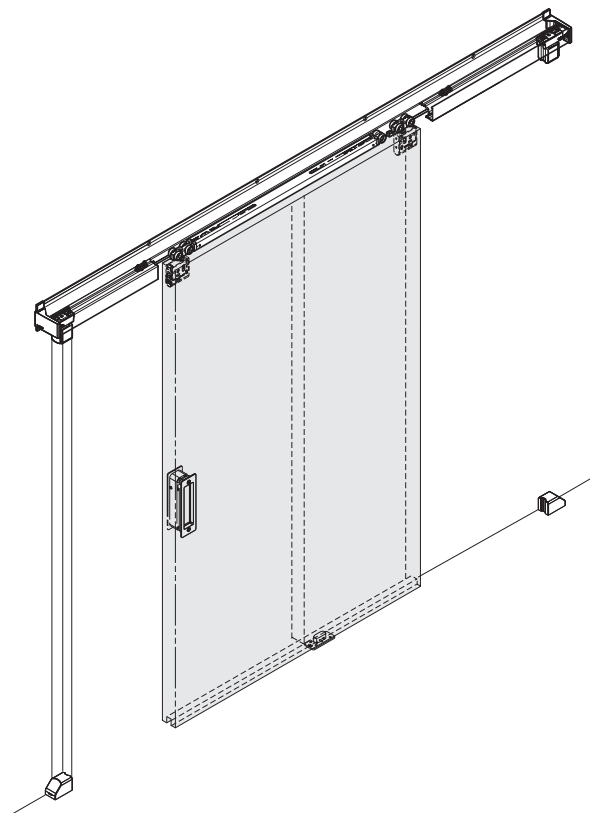
SPECIFICATIONS

| | |
|-----------------------|----------------------|
| Max. Door height | 2400 mm |
| Max. Door width | 680 – 1500 mm |
| Min. Door thickness | 30 – 36 mm |
| Max. Door weight | 50 kg ※ ¹ |
| Vertical adjustment | ± 4 mm |
| Front-rear 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.

※¹ If a light weight door is applied, you may feel the resistance of the soft closer when opening the door. (Recommended at least 25kg)



FOR YOUR SAFETY AND CORRECT INSTALLATION



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.




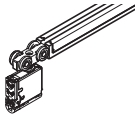


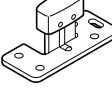


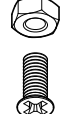

- Do not use this product for any other purpose, or with doors that are outside the specifications of this manual.
- Do not disassemble or modify any parts other than those described in this document.

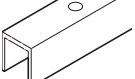


Caution: If not followed, injury or damage may result.





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

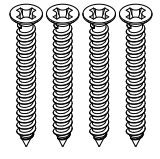
COMPONENT PARTS

| No. | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ |
|--|---|--|---|--|--|--|---|--|
| Name | Upper track | Soft Closer (two-way) | Trigger, Jig | Upper roller | Floor guide | Door stopper (for upper track) | Door stopper (floor) | Screw & nut for trigger |
| Item No. | FD50-TRA | FD50SP-WRH-DSC | FD50-TRG-SL, FD50-TRJ | FD50SP-WRH | FD50-BG18 | FD50-TRA-STP | FD35EV-FSTP | FD50-TRA-TRG-N |
| Item | 2120 / 3020 mm Hole pitch : 300 mm Pitch end : 10 mm  |  Accessory screw: Flat head tapping screw 3.8 X 40 3 pcs |  Trigger 2 pcs Trigger jig 1 pc Accessory screw: Countersunk head tapping screw 4 X 30 (D6) 4 pcs |  Accessory screw: Flat head tapping screw 3.8 X 40 3 pcs |  Accessory screw: Bind head tapping screw 4 X 16 5 pcs |  Accessory screw: Pan head tapping screw 4 X 30 2 pcs Pan head screw M4 X 16 2 pcs Nut M4 2 pcs |  Accessory screw: Pan head tapping screw 4 X 30 3 pcs |  Accessory screw: Countersunk head screw 4 X 10 (D6) 2 pcs Nut M4 2 pcs |
| Single sliding  | 1 pc | 1 pc | 1 set | 1 pc | 1 pc | 2 pcs | 2 pcs | 2 sets |

| No. | ⑨ | ⑩ |
|--|---|---|
| Name | Embedded Lower Guide Rail | Side cover |
| Item No. | FD30-HBRT | FD50-HASC |
| Item | 1000 - 1500mm  Hole pitch : 250 mm Pitch end : 30 mm Accessory screw: Countersunk head tapping screw 4 X 20 |  Accessory: Stopper plate Screw |
| Single sliding  | 1 pc | L/R 1 ea |

| No. | ⑪ | ⑫ |
|----------------|---|--|
| Name | Cover cap | Spanner |
| Item No. | FDSP-WRH-CP | FDSP-SP |
| Item |  |  |
| OPTIONAL PARTS | | |

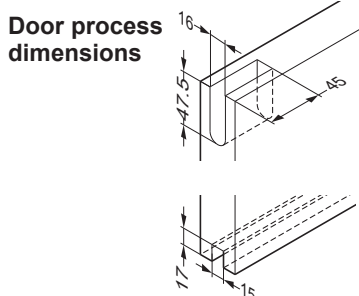
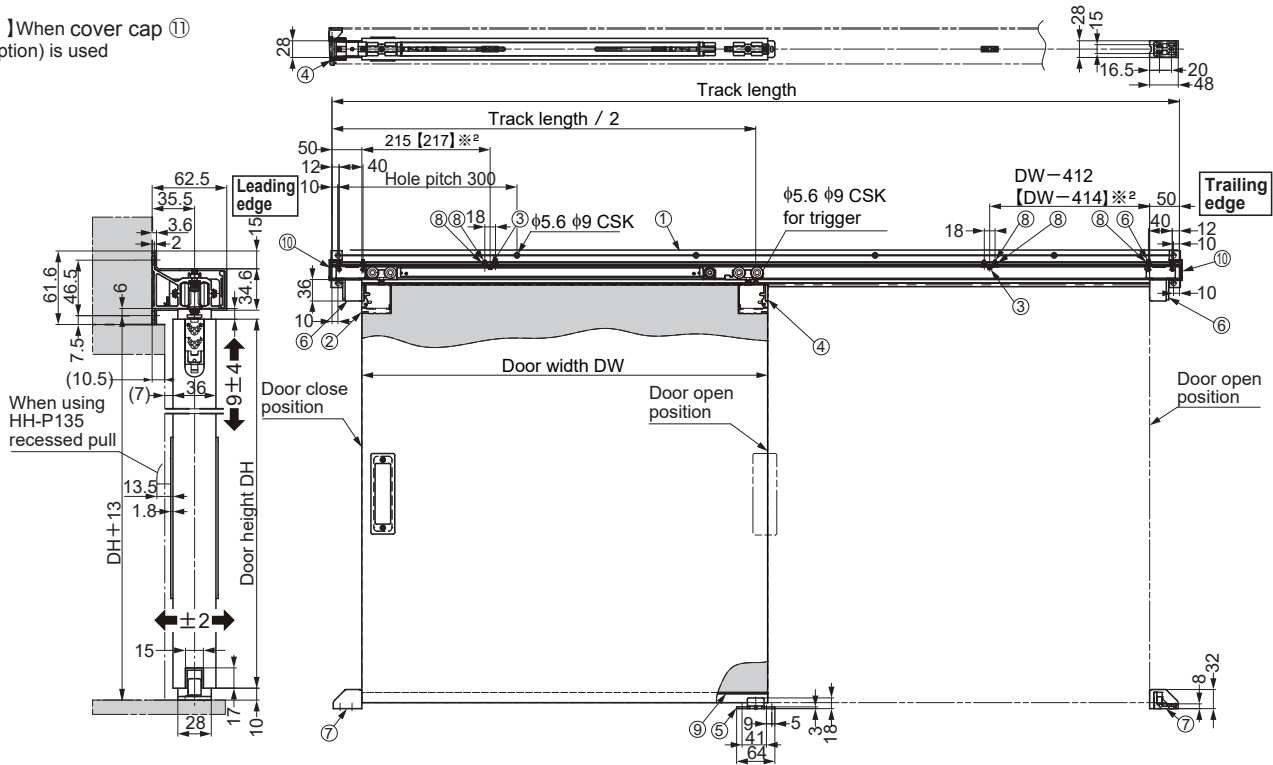
X The parts below which are packed with soft closer ① are not needed for this application.



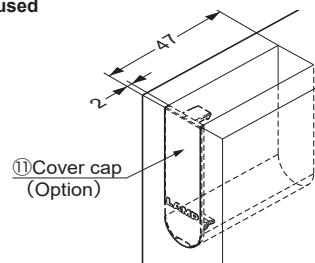
Countersunk head tapping screws 4 x 30 D6 : 4 pcs

INSTALLATION DRAWING (EXAMPLE)

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

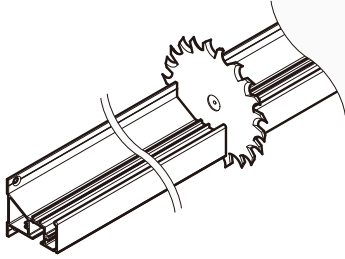


※² When cover cap ⑪ (Option) is used

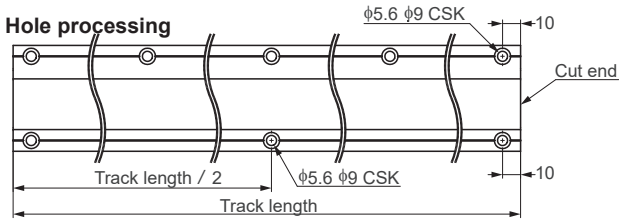


1 Cutting and Hole Drilling on Upper Track

Cutting



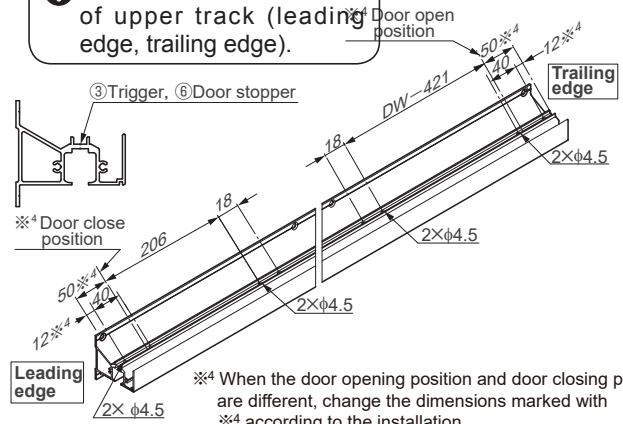
Hole processing



Processing holes for trigger

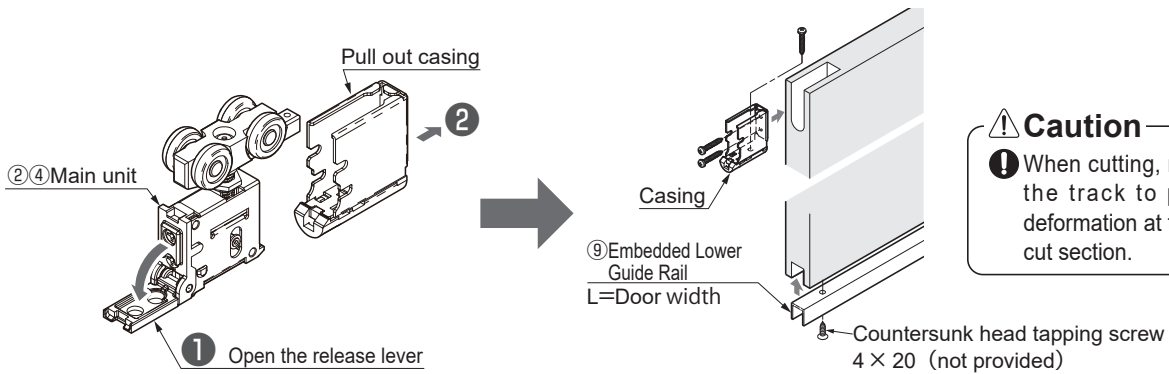
Caution

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



2 Mounting Parts on Door

Recessed roller: Separate main unit from casing.



Caution

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

3 Verification Before Installing Soft Closer

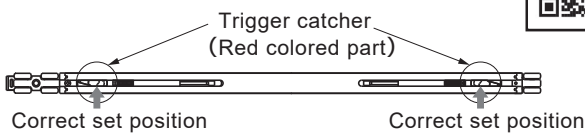
Caution

Without verification the self closing feature may fail.

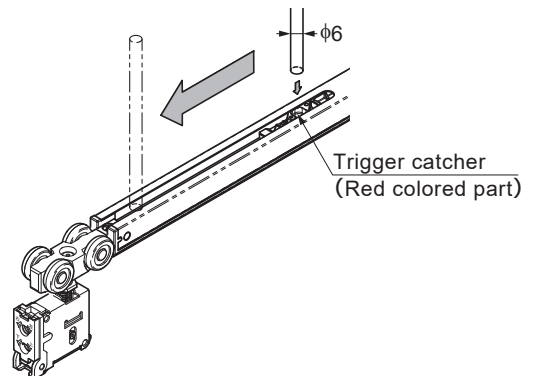
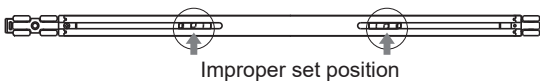


If the position is wrong, pull back the trigger catcher to the correct position using a 6 mm diameter round bar.

OK

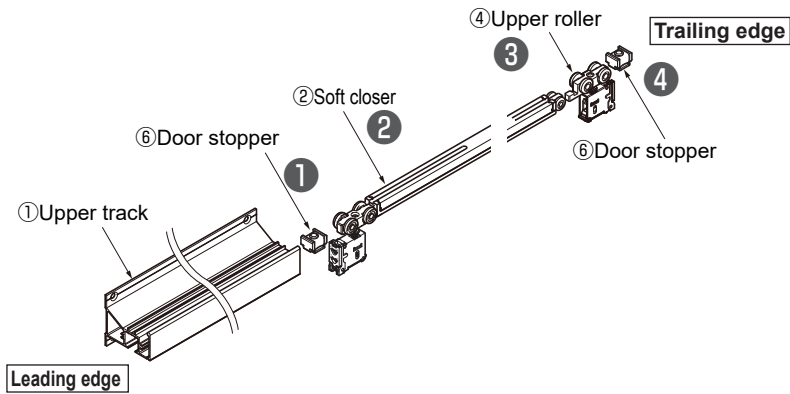


X



4 Inserting Parts into Upper Track

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



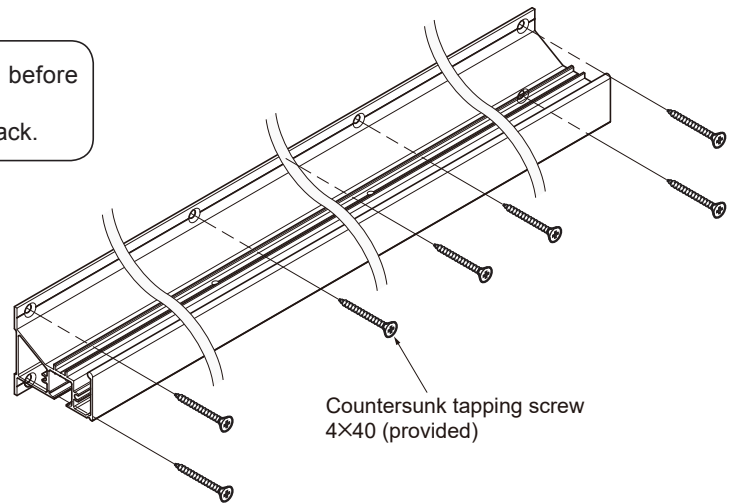
⚠ Caution

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

5 Mounting Upper Track

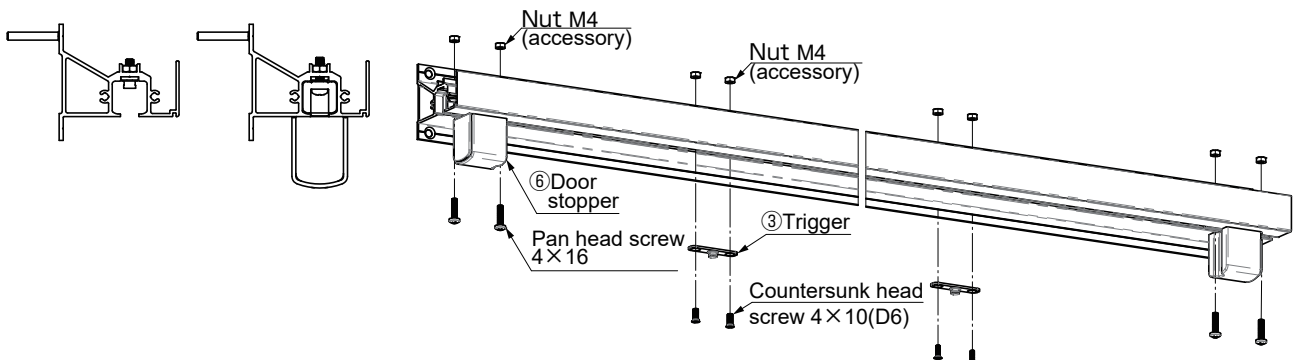
⚠ Caution

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

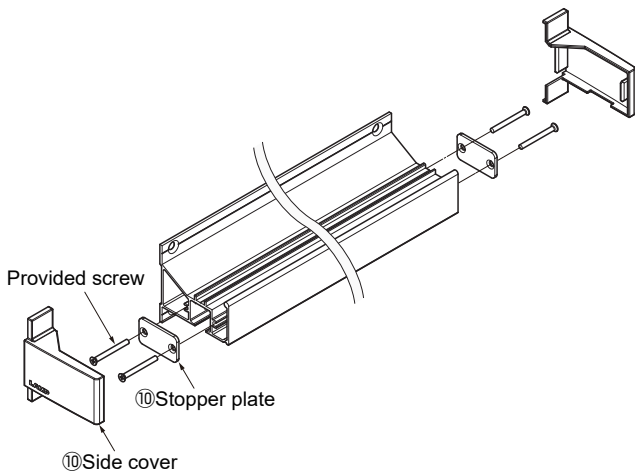


6 Fastening Trigger and Door Stopper

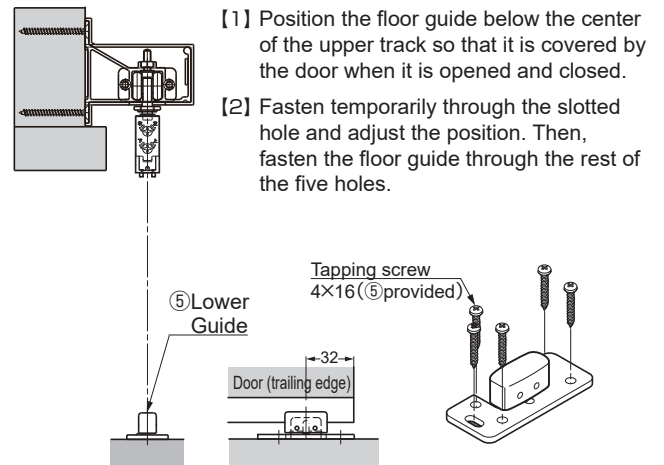
Fasten triggers and door stopper to the hole made during procedure ① with the provided nuts.



7 Assembly of Side Cover

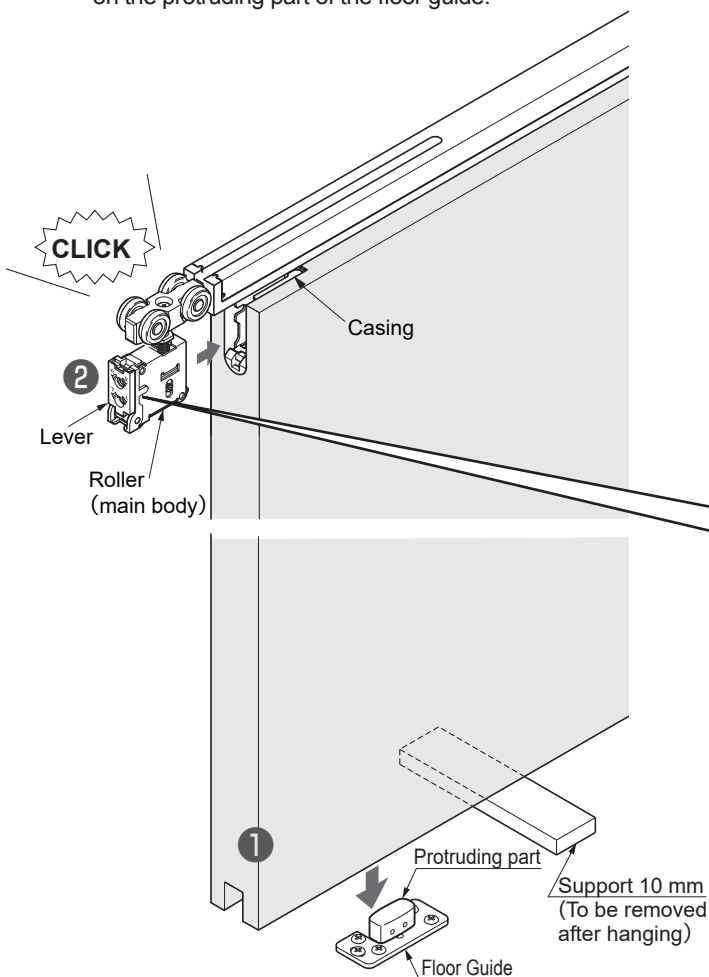


8 Mounting Floor Guide Temporarily



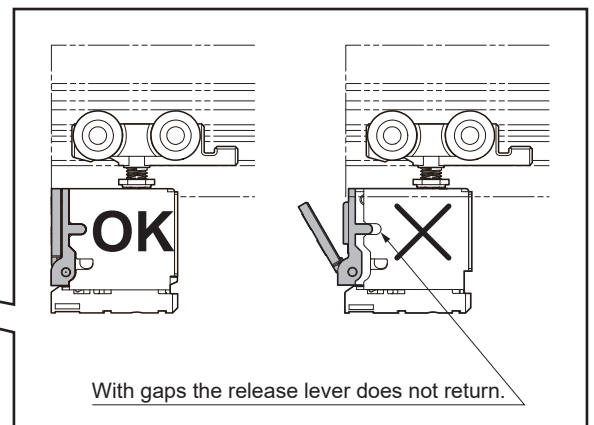
9 Hanging Door

- 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-motion: approx. 115 mm before the stop position..

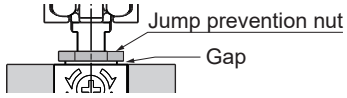
10 Adjusting Door Position

Adjust the door parallel to the upper track with 6-14 mm of clearance between the door and floor.

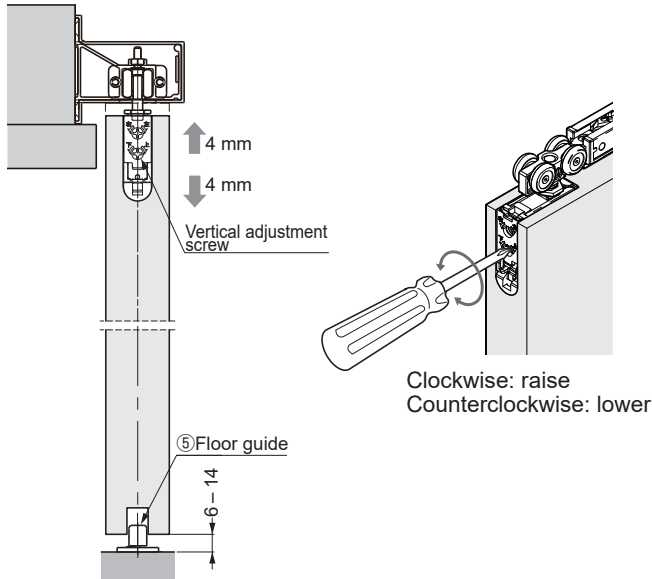
Caution

- Do not turn the adjustment screw beyond adjustment range.

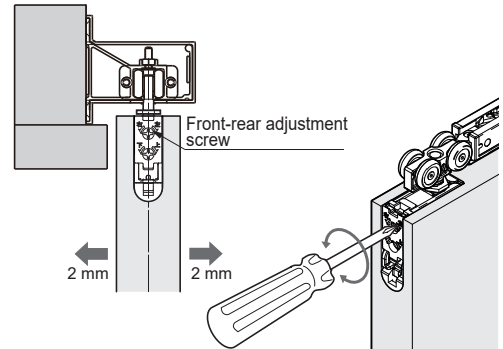
- Do not turn adjustment screw beyond adjustment range.
- Do not use electric screw driver.



Vertical adjustment range: 8 mm

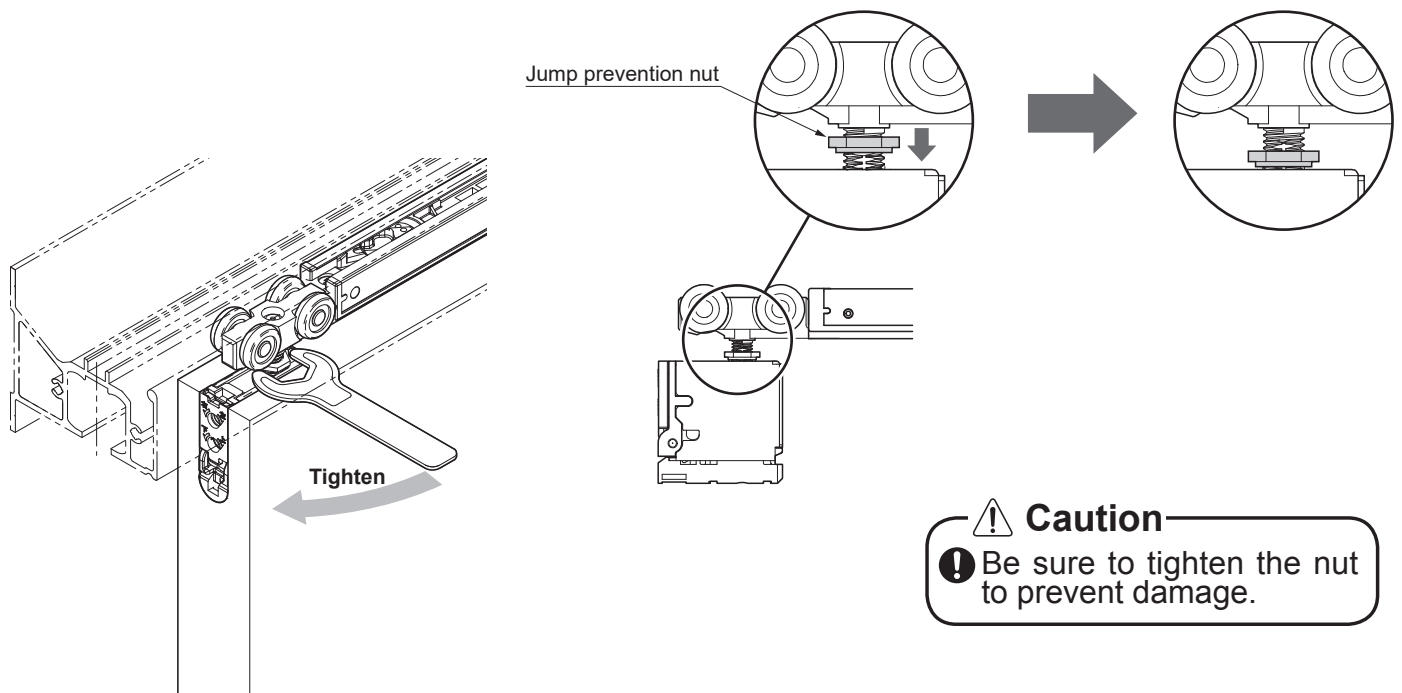


Front-rear adjustment range : 4 mm



11 Fastening the Jump Prevention Nut

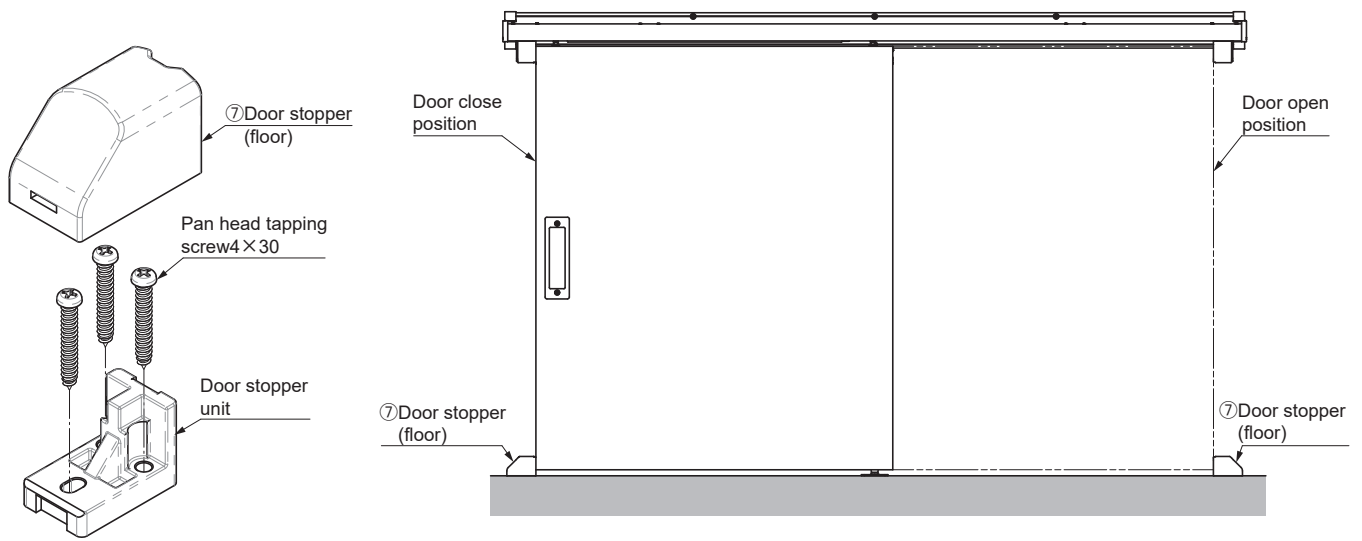
The jump prevention nut is on the hanger bolt of the upper roller.
Tighten the nut with the provided spanner until it contacts the soft closer.



Caution
Be sure to tighten the nut to prevent damage.

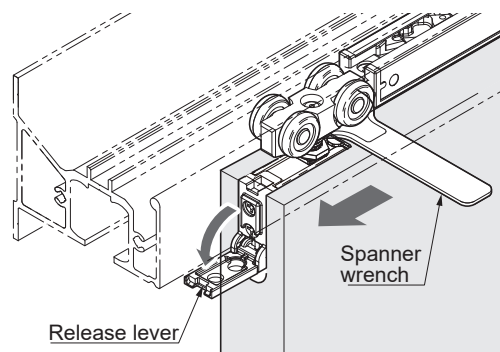
12 Mounting door stopper (floor)

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 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.

| | |
|------------------------------|---|
| PERIODICAL INSPECTION | <ul style="list-style-type: none"> • 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 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 - 14 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 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 6 - 14 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 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 - 14 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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