

# LAMP® FD30EX SLIDING DOOR SYSTEM Installation Manual (One-Way Soft Close, Recessed Mount Roller)

Part No.FD30EXHCP

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

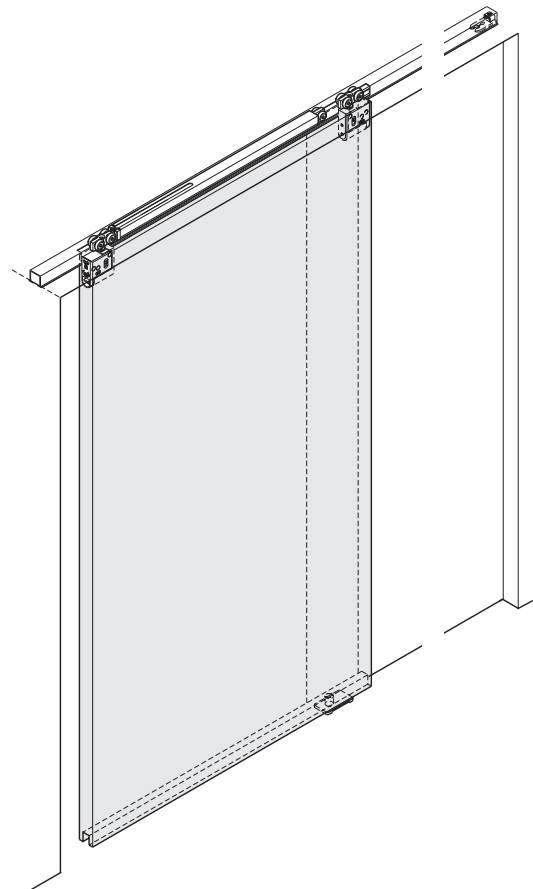
- This product is a parts set for an indoor use sliding door system.
- The door closes in 2 step sequential soft motion.
- Easy door installation and adjustment.

## SPECIFICATIONS

|                               |                      |
|-------------------------------|----------------------|
| Max. Door height              | 2400 mm              |
| Max. Door width               | 510 - 1000 mm        |
| Min. Door thickness           | 24 mm                |
| Max. Door weight              | 30 kg ※ <sup>1</sup> |
| Height adjustment range       | ± 4 mm               |
| 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.

※<sup>1</sup>If 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

|   |   |   |
|---|---|---|
|  <b>Warning</b><br>Caution |  <b>Prohibited</b> |  <b>Required</b> |
|---|---|---|

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


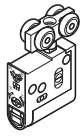
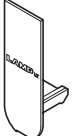
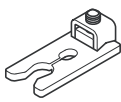
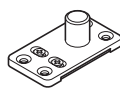
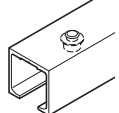
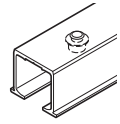
- ❗ This (sliding door system) should be installed by a qualified person. If the system is not installed correctly, the door will not operate smoothly, and may cause injury.
- ❗ It is necessary to manufacture the frame with sufficient strength so that it endures the weight of the door and any impact 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 try to use this product for anything other than its original purpose. Do not use any part for applications outside of its specification.
- ⊘ Do not disassemble nor modify any parts other than those described in this document.

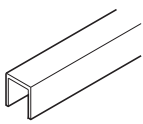
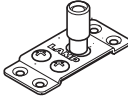
### **Caution: If not followed injury or damage may result.**


- ❗ 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 well-functioning and safe. Please inform the end user about general precautions and safety to prevent improper use.
- ❗ 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

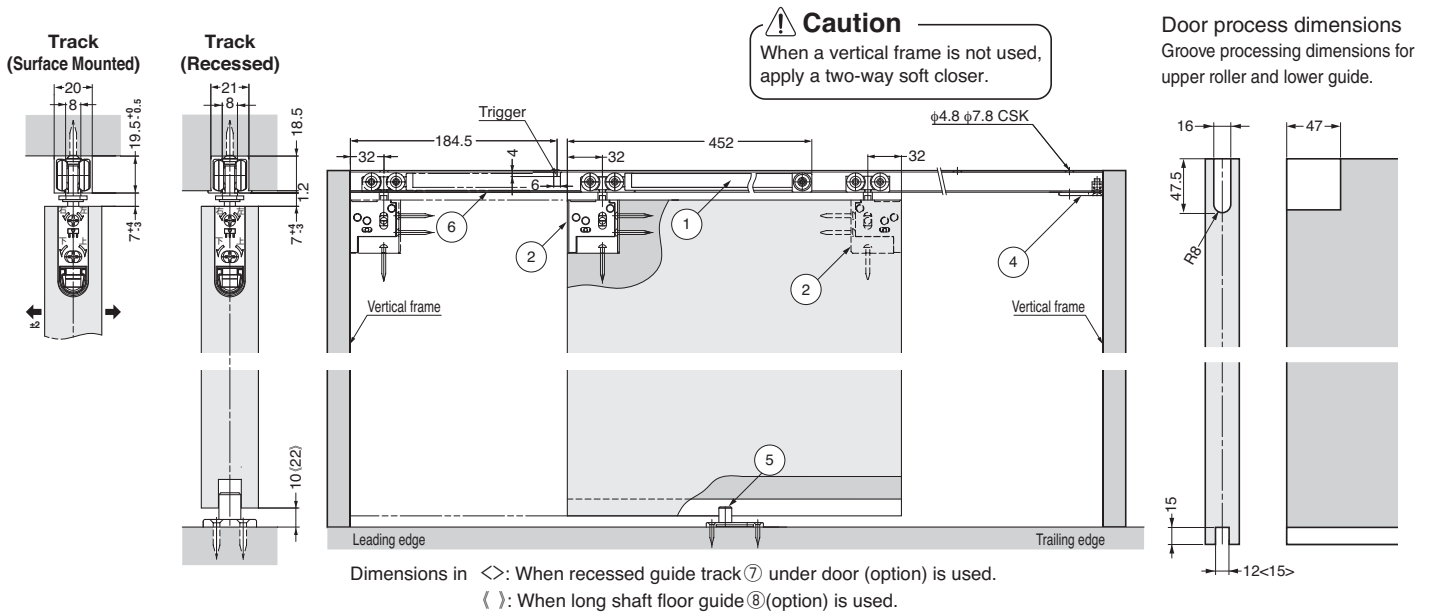
(This describes installation of a single sliding door.)

| No.         | ①   | ②   | ③   | ④   | ⑤  | ⑥   |   |
|-------------|---|---|---|---|--|---|---|
| Name        | Recessed roller soft closer<br>one-way soft close                                 | Recessed roller   | Cover cap   | Door catcher  | Floor guide<br>(with roller)   | Upper track<br>(surface mount)  | Upper track<br>(Recessed mount)   |
| Item No.    | FD30EX-WRH-SC   | FD30-WRH  | FD30-WRH-CP   | FD30-HTST-GR  | FD30-HBG   | FD30-TRM  | FD30-TRH  |
| Item        |  |  |  |  |  | <br>Hole pitch : 300 mm<br>Pitch end : 30 mm | <br>Hole pitch : 300 mm<br>Pitch end : 30 mm |
| Accessories | Pan head tapping screw<br>3.5x30 ..... 3 pcs                                      | Pan head tapping screw<br>3.5x30 ..... 4 pcs                                      | —   | —   | Countersunk head tapping<br>screw 3.5x30 ... 5 pcs                                 | —   | —   |
| Remarks     | —   | —   | —   | —   | —  | Recommended screw :<br>Countersunk head tapping screw 3.5x20  |   |

| OPTIONAL PARTS | No.   | ⑦   | ⑧                                      |
|----------------|---|---|--|
|                | Name  | Door bottom<br>guide track  | Floor guide with<br>roller(long shaft) |
|                | Item No.  | FD30-HBRT1500SIL  | FD30-HBGH                              |
| Item           | <br>Hole pitch : 250 mm<br>Pitch end : 30 mm | <br>Countersunk head tapping<br>screw 3.5x30 ... 4 pcs |  |

|           |   |
|-----------|---|
| Accessory | Spanner   |
|           | FD30-FSP<br> |

# INSTALLATION DRAWING (EXAMPLE)



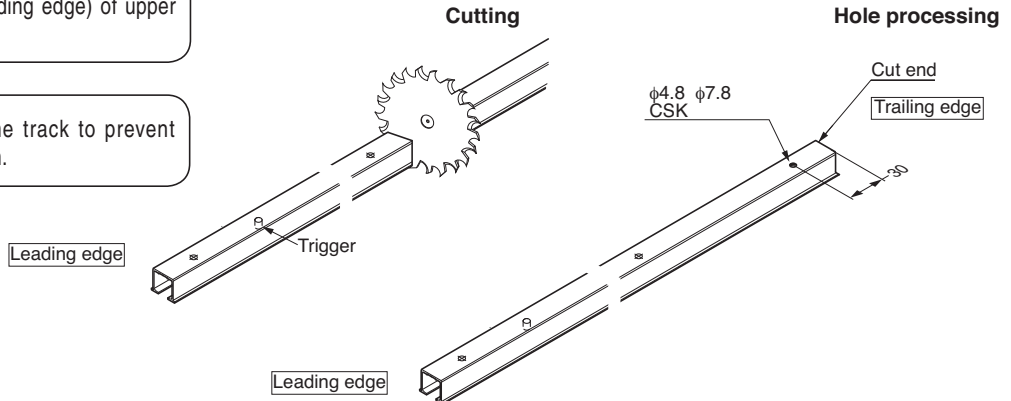
## 1 Cutting and Providing Hole on Upper Track

### ⚠ Caution

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

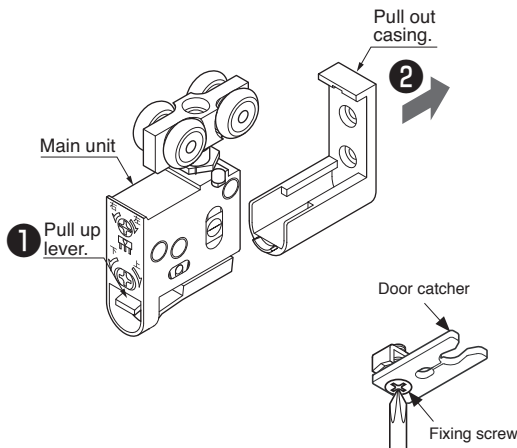
### ⚠ Caution

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



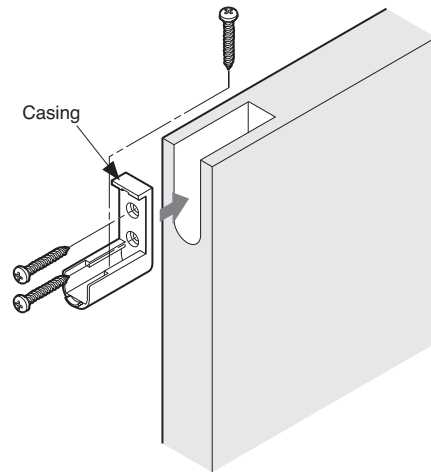
## 2 Preparation for parts assembly

Recessed roller: Separate main unit from casing.  
Loosen fixing screw on door catcher.

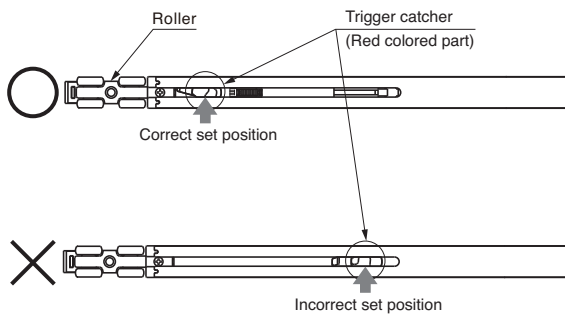


## 3 Installing Casing

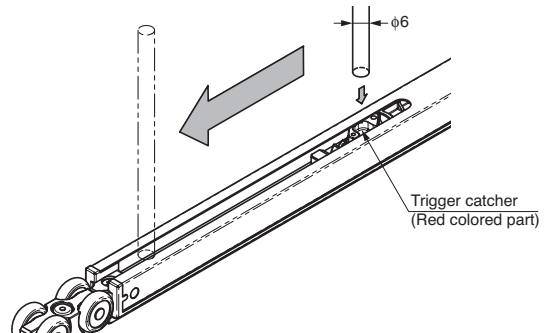
Fasten the casing firmly with attached screws.



## 4 Verification Before Installing Soft Closer



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



### ⚠ Caution

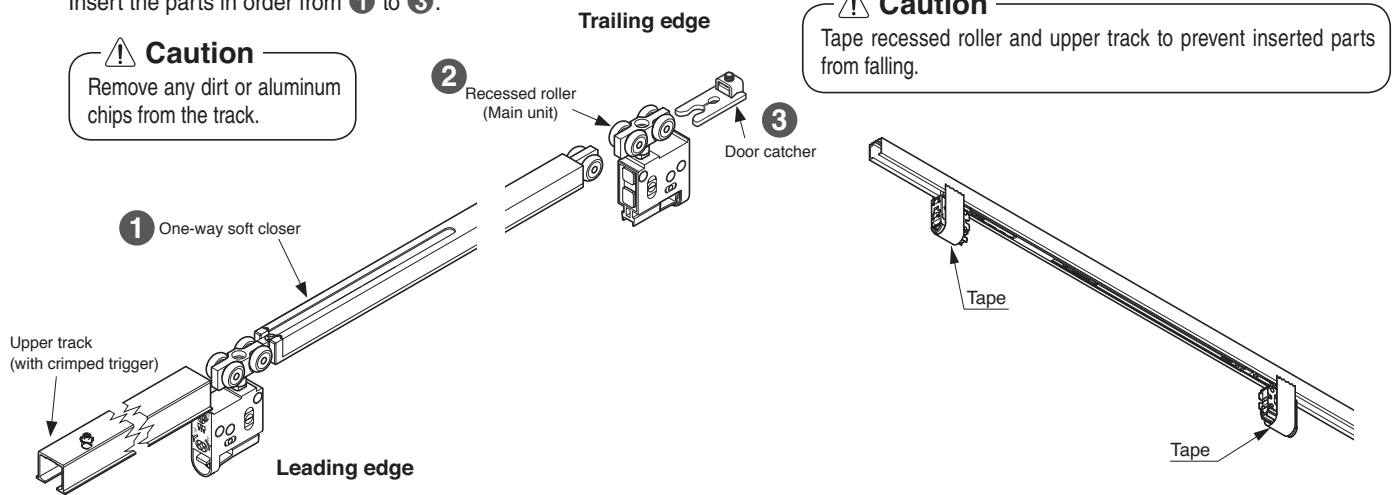
Without verification the self closing feature may fail.

## 5 Inserting Parts into Upper Track

Insert the parts in order from ① to ③.

### Caution

Remove any dirt or aluminum chips from the track.

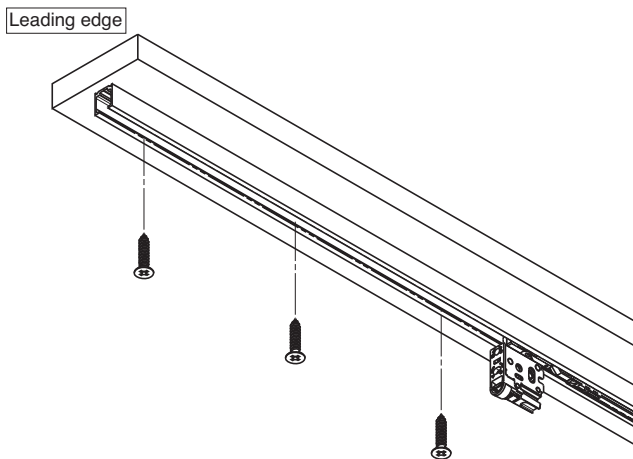


### Caution

Tape recessed roller and upper track to prevent inserted parts from falling.

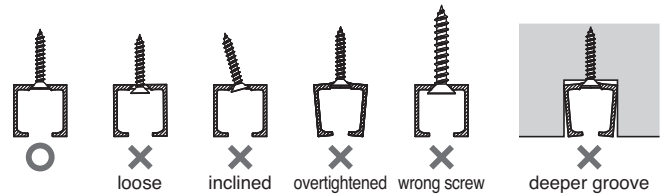
## 6 Fixing Upper Track

(Recommended screw: Countersunk head tapping screw 3.5x20)



### 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.

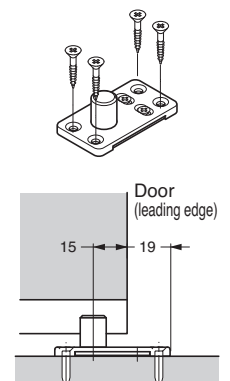
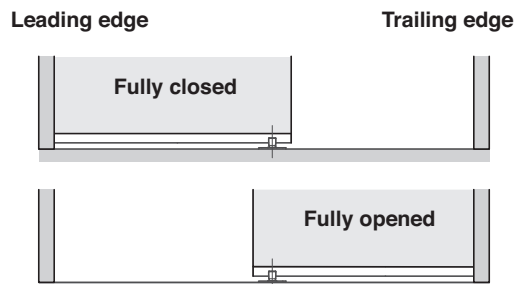
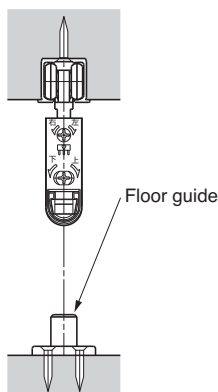


## 7 Fixing Floor Guide Temporarily

Position floor guide just below the center of upper track.

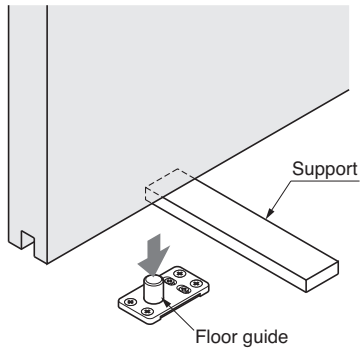
Position the floor guide so that its roller part stays under the door when it is opened or closed.

Fasten the four countersunk holes with provided screws.

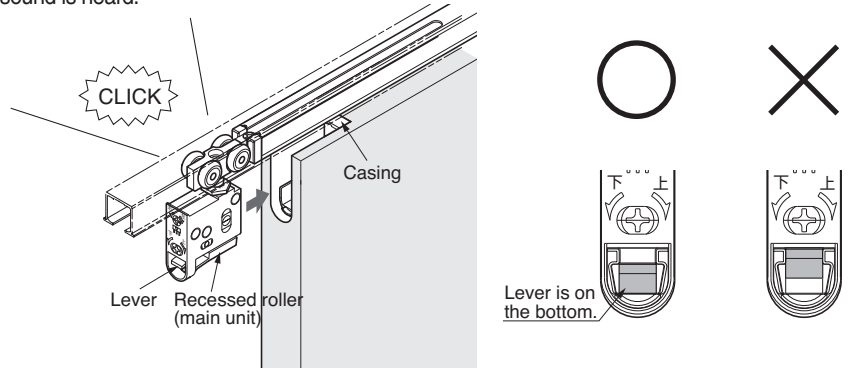


## 8 Hanging Door

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.



### Caution

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

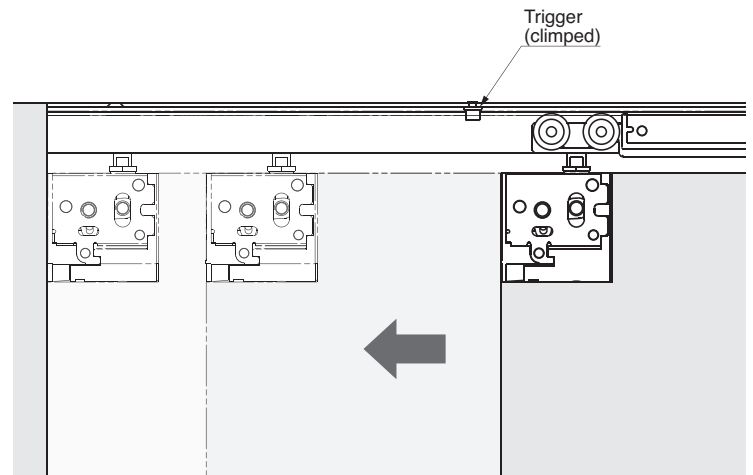
## 9 Confirmation of Soft Closer Operation

Remove the 10 mm support from under the door. Close the door slowly and check that the soft closer works correctly. The soft closer is engaged approximately 100 mm before the door reaches its final closed position.

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

### Caution

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



## 10 Adjusting Door Position

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

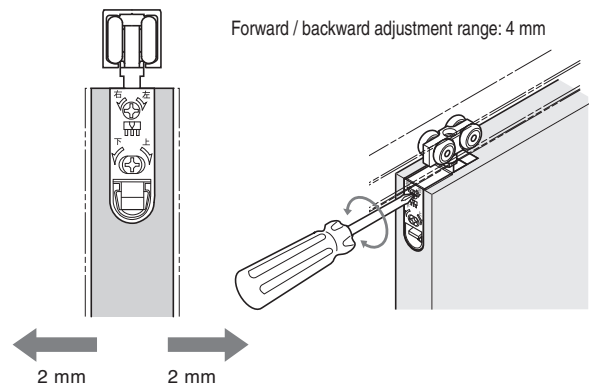
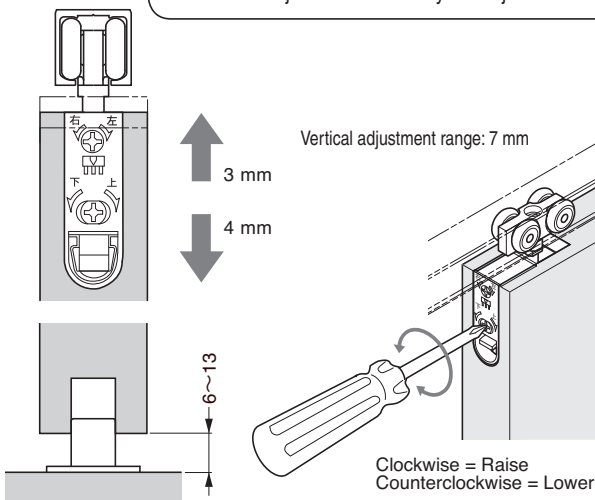
### Caution

Do not turn adjustment screw beyond adjustment range.



### Caution

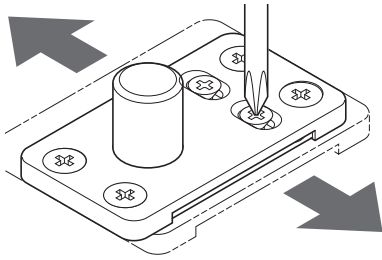
Do not use electric screwdriver.



## 11 Adjusting the floor guide: adjustment range is 4 mm.

Slowly close and open the door.

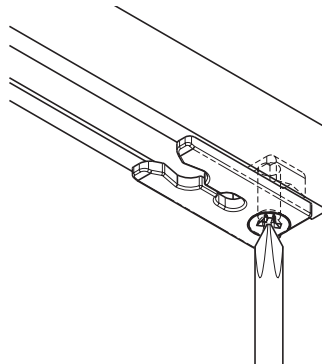
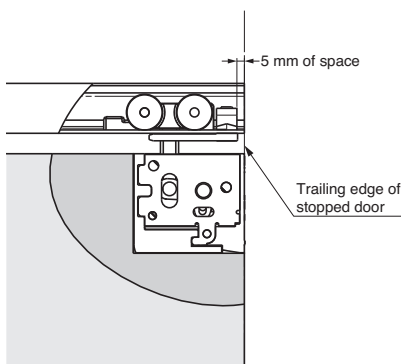
If the door does not move smoothly, it is necessary to make a forward / backward adjustment for floor guide and door.



## 12 Fixing End Catch Position (Trailing edge)

Fix the end catch 5 mm from the position where the door stops.

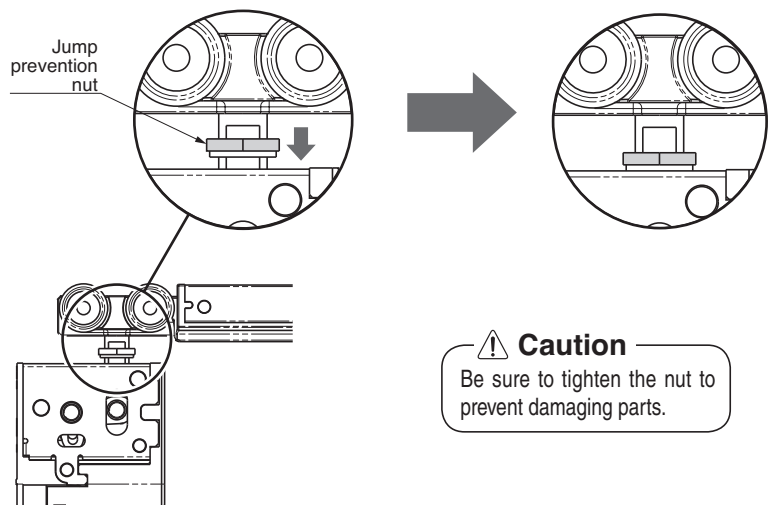
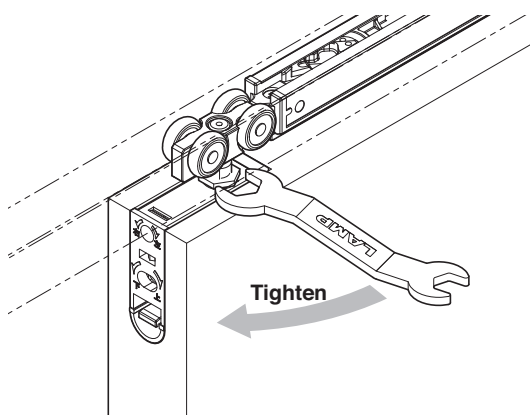
Adjust the position of the end catch where it catches the hanger bolt of the roller when the door is stopped by the frame or door stopper.



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

## 13 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.




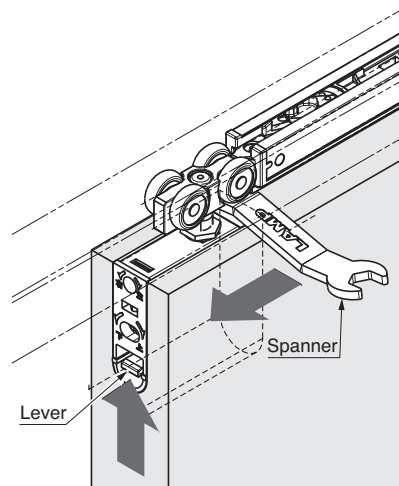
**Caution**  
Be sure to tighten the nut to  
prevent damaging parts.

## 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.

 **Caution**  
Pay attention not to fall the door.



**Final verification** Confirm that all screws are securely tightened. And, confirm that all screws have been used.

**PERIODICAL INSPECTION** · Clean inside of track.  
· Check the 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.                                   | Confirm that track fixing screws are not loosened. Then, adjust 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 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 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 with other objects. Adjust position of floor guide or stopper.  |
|                                   | Check if door is warped.  | Replace door with one that is not warped.  |
| Door does not move.               | Check the track retaining screws for looseness.                             | 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 (FD30-WRH-N) is installed by mistake, jump prevention nut on the roller interferes with the end catch. Replace it with correct roller.                               |

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