

Thank you for using our product. Before installation, please read this manual thoroughly to ensure correct installation.
Please keep this manual at hand for future reference.

ABOUT THE PRODUCT

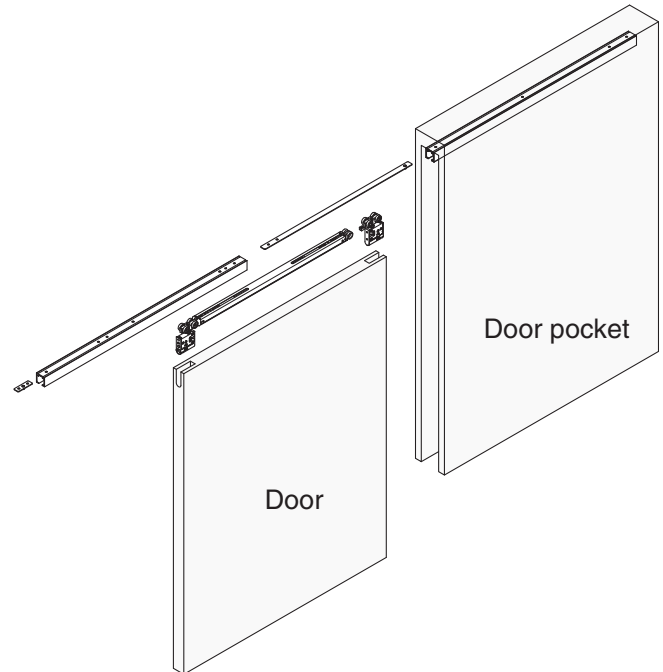
- This is a parts set for a sliding door system for indoor use.
- The door closes in 2 soft motion steps; first slow, then fast, and opens with a 1 step soft motion.
- Two sections of track for easy maintenance after installing.

SPECIFICATIONS

| | |
|---------------------|------------------------------|
| Max. Door height | 2400 mm |
| Door width | 590 - 1000 mm |
| Min. Door thickness | 30 mm |
| Max. Door weight | 30 kg/door ※ ¹ |
| Vertical adjustment | 4 mm upward 3 mm downward |
| Depth 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 degrees centigrade.

※¹ When using a light weight door, you may feel the resistance of the soft closer when opening the door.



FOR YOUR SAFETY 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).
- ❗ When installing the "pocket door", make an "easy-maintenance" structure. For example, use a removable panel.
- ❗ Install the product with two people (in the case of one person, there is a risk of damaging components).

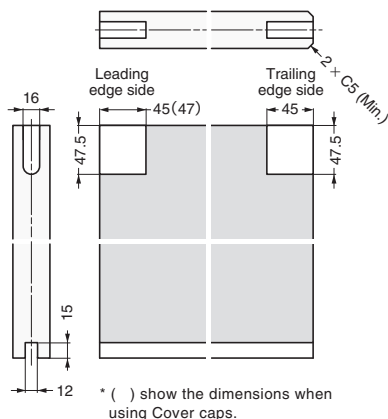
COMPONENT PARTS

| No. | ① | | ② | ③ | ④ | ⑤ | ⑥ |
|-------------|--|-------------------------------------|--|--|--|--|--|
| Name | Open area track (Surface mounted) | Open area track (recessed mount) | Soft closer (two-way) | Upper roller | Front trigger | Pocket trigger | Floor guide |
| Cord No. | Available with various length and finishe | | 250-043-910 | 250-020-837 | 250-029-705 | 250-029-704 | 250-017-151 |
| Part No. | FD30-35EV-TRMP 型 | FD30-35EV-TRHP 型 | FD30EX-WRH-DSC-A | FD30-WRH-N | FD30-TRGPF | FD30-TRGPB | FD30-HBG |
| Parts | | | 1 ea | 1 ea | 1 ea | 1 ea | 1 ea |
| Accessories | Countersunk head tapping screws 3.5 × 25 (Q'ty depends on the hole location) | | Pan head tapping screws 3.5 × 30 3 ea. | Pan head tapping screws 3.5 × 30 3 ea. | Countersunk head tapping screws 4.0 × 30 2 ea. | Countersunk head tapping screws 4.0 × 30 2 ea. | Countersunk head tapping screws 3.5 × 30 4 ea. |

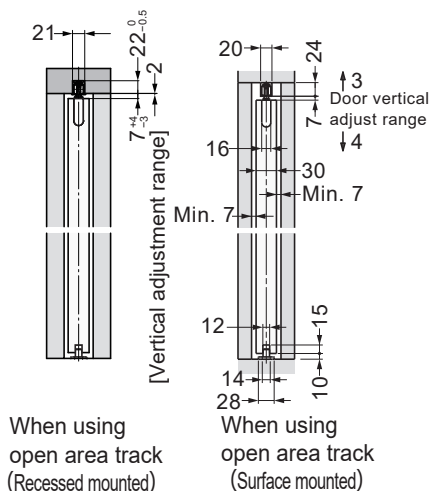
| No. | ⑦ | ⑧ |
|----------|---|---------------------|
| Name | Door guide track | Cover cap |
| Part No. | FD30-HBRT1500SIL | FD30-WRH-CP |
| Parts | Recommended screw: Countersunk head tapping screws 4 × 20 | Thickness: 2 mm |

INSTALLATION DRAWING (EXAMPLE)

The example shows the sliding door when the leading edge (at the fully opened position) is aligned with the connecting position of the upper tracks. To shift the connecting position towards the trailing edge, see page 9.

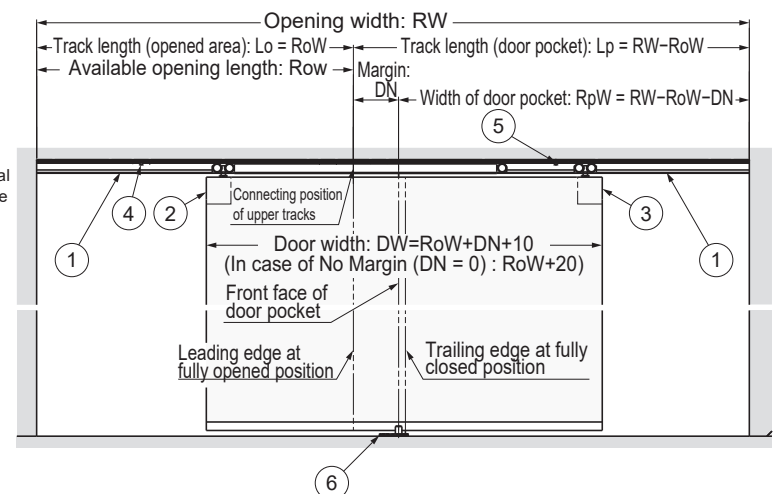
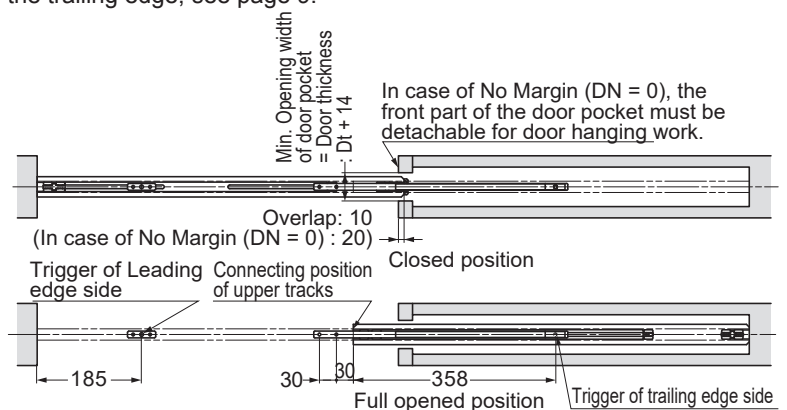


* () show the dimensions when using Cover caps.



When using open area track (Recessed mounted)

When using open area track (Surface mounted)



TOOLS REQUIRED FOR INSTALLATION

• Philips head driver #2

• Machine or tool for cutting aluminum alloy

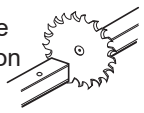
• Drill bit for metal: $\phi 4.5$

• Drill bit for metal (for $\phi 7.8$ countersunk hole)

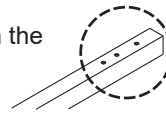
INSTALLATION PROCEDURE

1 Cutting track and Hole Drilling on Upper Track

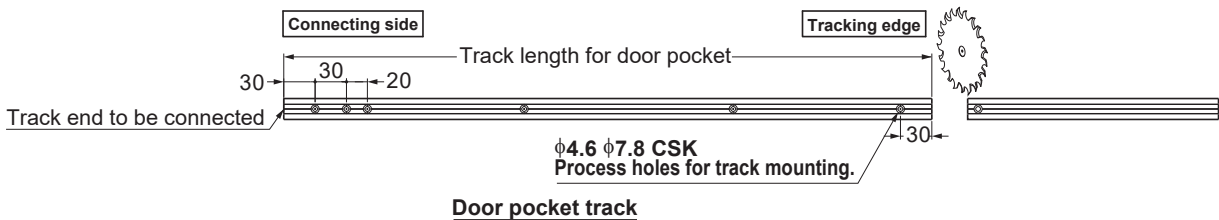
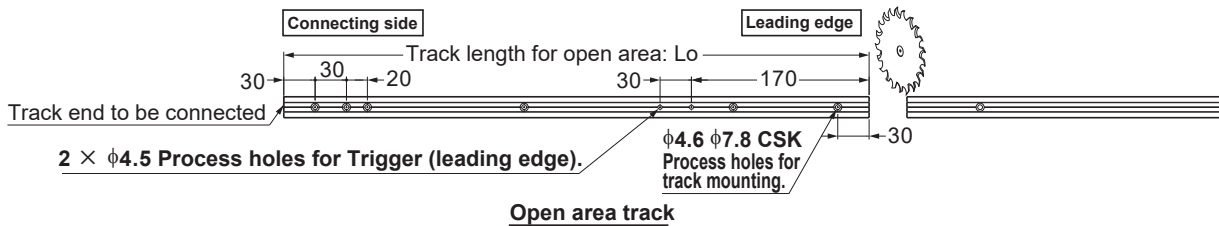
Caution
 When cutting, reinforce the track to prevent deformation at the cut section.



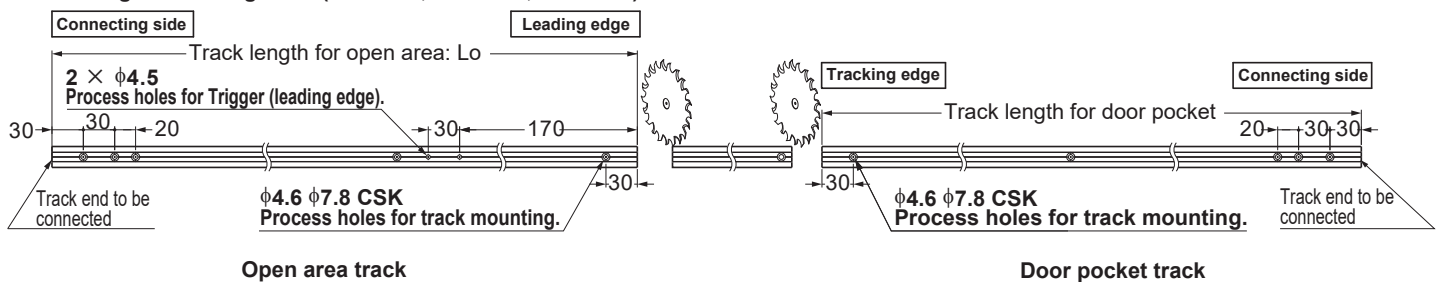
Caution
 Do not cut the track on the side with three holes.



When using 860 mm track and 1260 mm track (1 ea.)



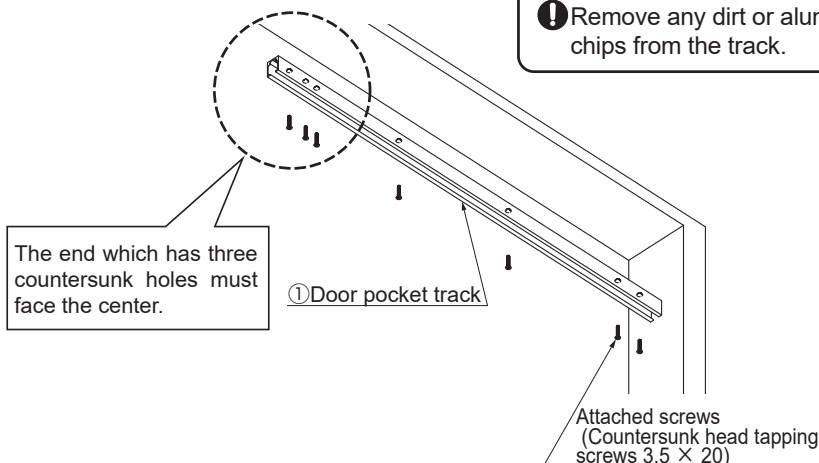
When cutting from a long track (1860 mm, 2760 mm, 3960 mm)



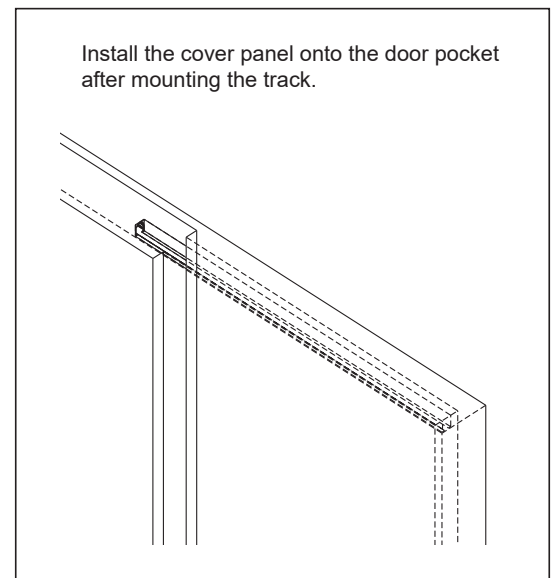
2 Installing Door Pocket Track

Mount Door pocket track to the upper frame.
 Fix it with attached screws.

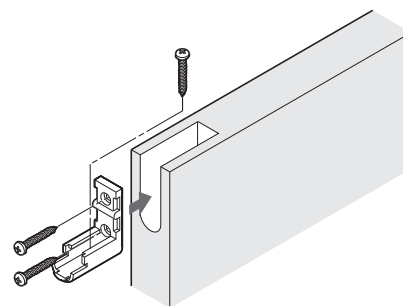
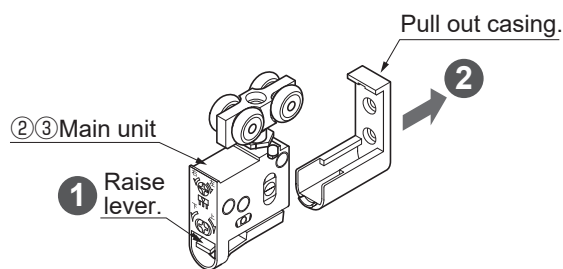
Caution
 Remove any dirt or aluminum chips from the track.



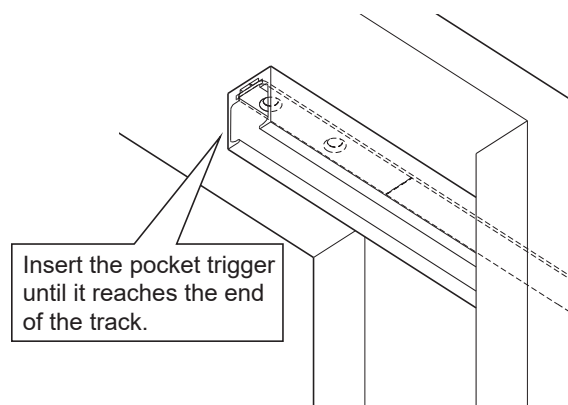
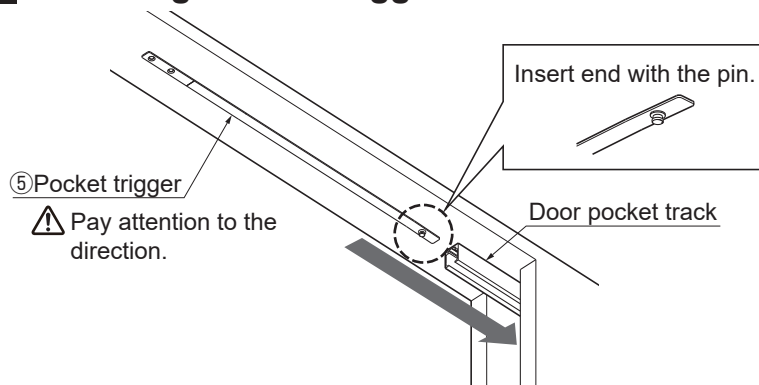
Install the cover panel onto the door pocket after mounting the track.



3 Mounting Parts on Door



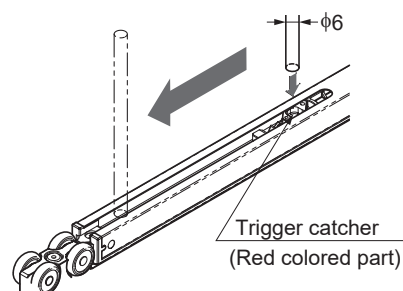
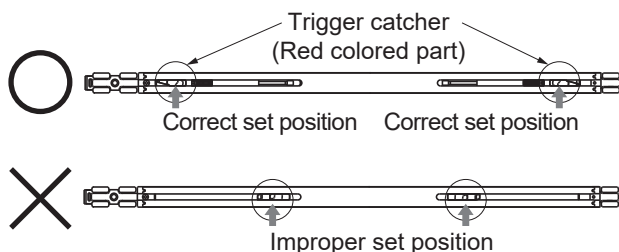
4 Installing Pocket Trigger



5 Verification Before Installing Soft Closer

Caution

Without verification the self closing feature may fail.



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

6 Inserting Parts into Open Area Track

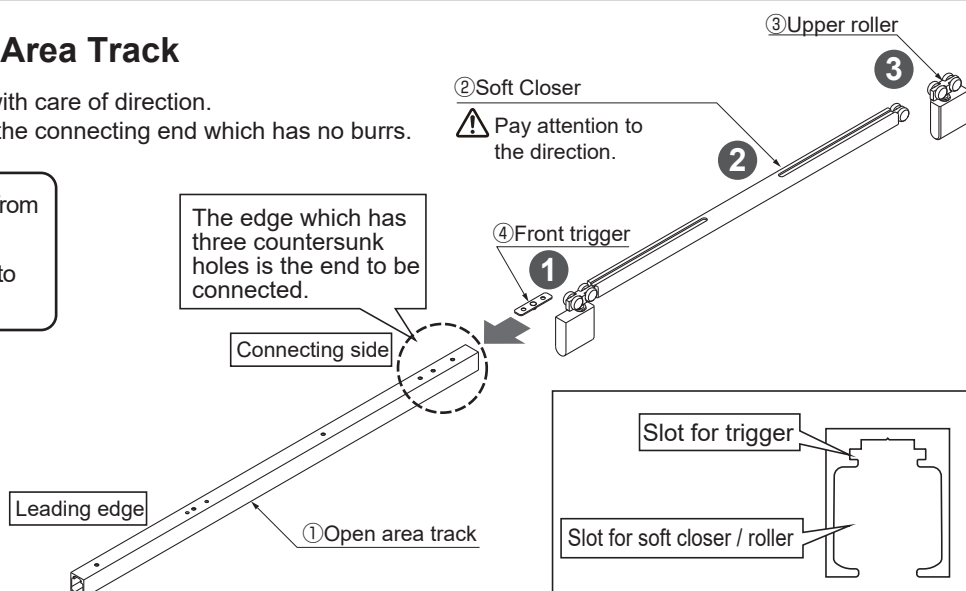
Insert the parts in order from ① to ③ with care of direction.

You can insert the parts smoothly from the connecting end which has no burrs.

Caution

Remove any dirt or aluminum chips from the track.

Tape around rollers and upper track to prevent inserted parts from falling.



7 Mounting of Open Area Track

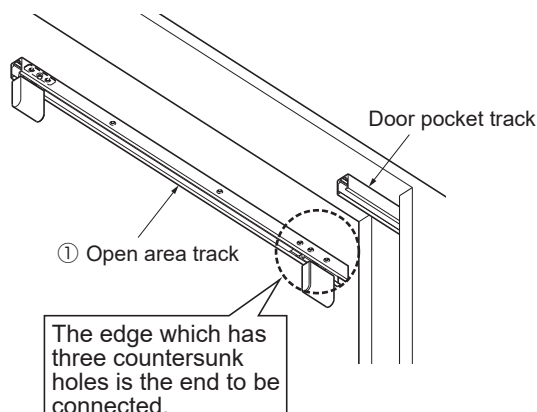
[1] Connecting to door pocket track.

Align the track end to the end of the door pocket track.

Pull out the pocket trigger from the door pocket track, and insert it into the open area track.

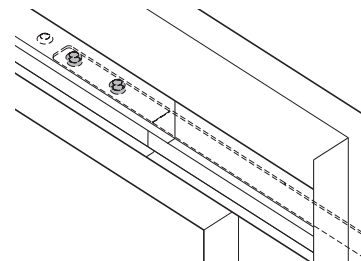
⚠ Caution

❗ Remove any dirt or aluminum chips from the track.



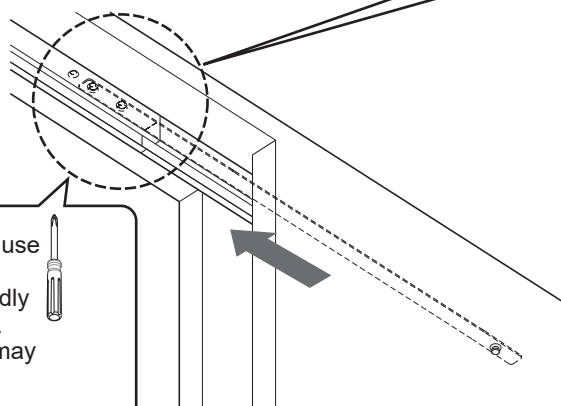
⚠ Caution

❗ Overlap the two countersunk holes on the pocket trigger and the two holes on the open area track. Deviation of the joint position makes insertion of the trigger difficult.



⚠ Caution

❗ When sliding the pocket trigger, use a screwdriver. The screwdriver may unexpectedly come out and damage the track. Scratches on the running track may cause a noise of rollers during operation.

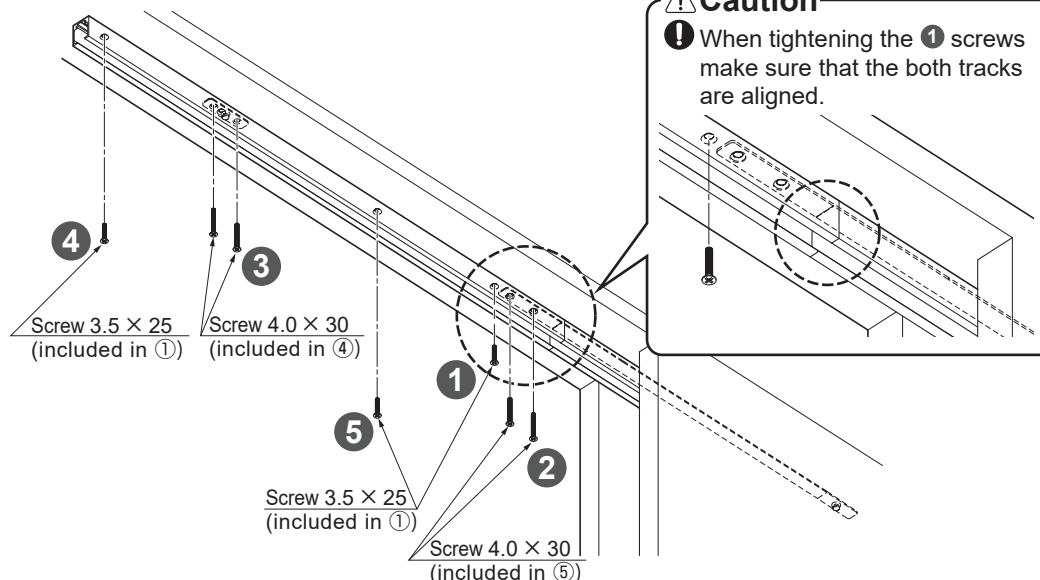


[2] Fastening trigger and track

Fasten the open area track and pocket trigger with provided screws in order of ① to ⑤. Move rollers if they cover the fastening holes on the track.

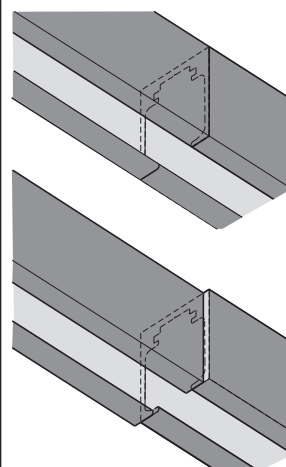
⚠ Caution

❗ When tightening the ① screws make sure that the both tracks are aligned.



⚠ Caution

❗ Be careful not to misalign the tracks. Tighten the screws firmly.

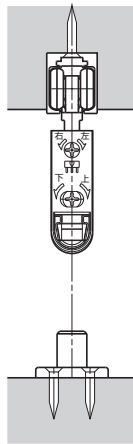


⚠ Caution

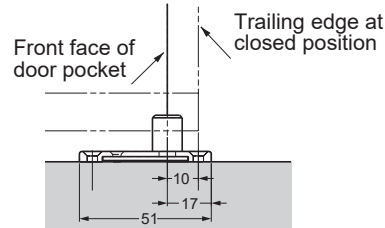
❗ After fixing the track, move rollers and check if there is any misalignment or gap between the tracks.

8 Mounting of Floor Guide

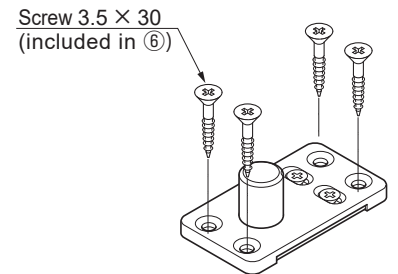
Position the floor guide below the center of the upper track, so that it is covered by the door when it is opened and closed.



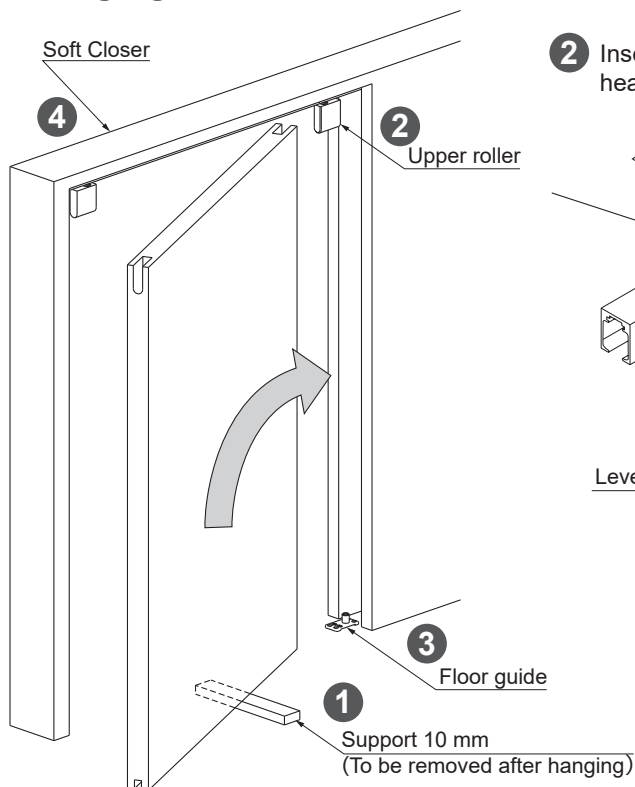
Caution
 The position of the model where the margin occurs is shown in the figure.



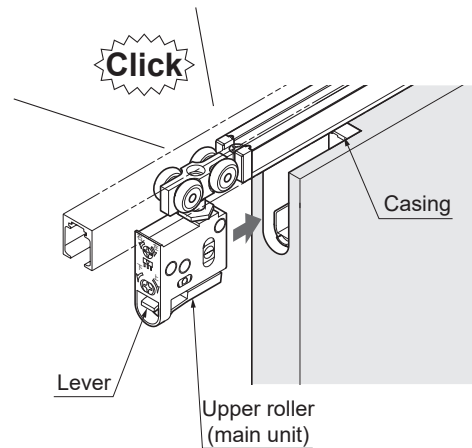
Fasten the four countersunk holes with provided screws.



9 Hanging Door

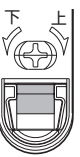
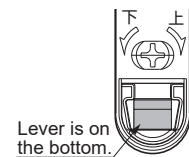


2 Insert the roller until a click sound is heard.



OK

X



Caution
 Verify that the main unit is not dislocated from the casing, for either of the door ends.

5 Verification of Soft Closer Operation

Starting point of soft - close.

Leading edge: approx. 100 mm before the stop position.

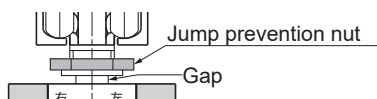
Trailing edge: approx. 50 mm before the stop position.

10 Adjusting The Door Position

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

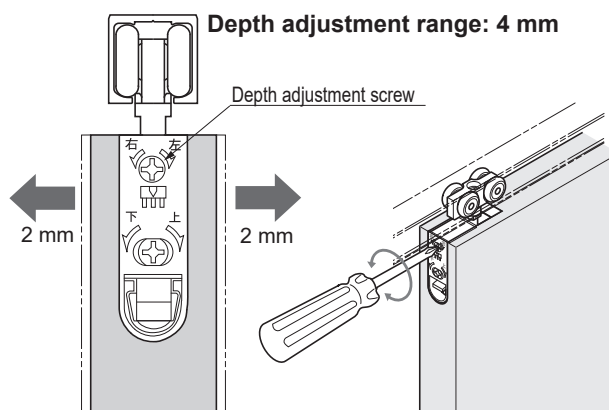
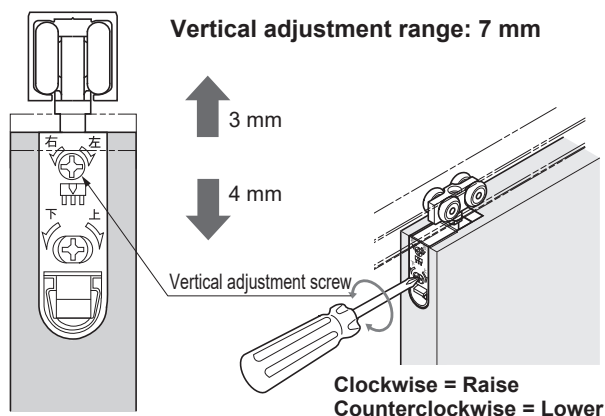
Caution

- The adjustment of the door should be done with the jump prevention nut loosened.



- Do not turn the adjustment screw beyond adjustment range.

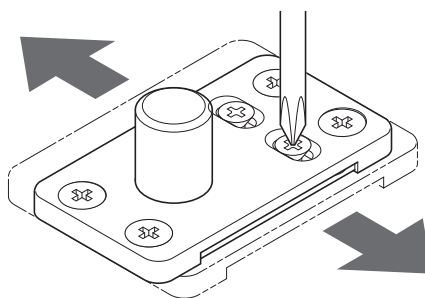
- Do not use electric screw driver.



11 Adjusting, Fastening Floor Guide

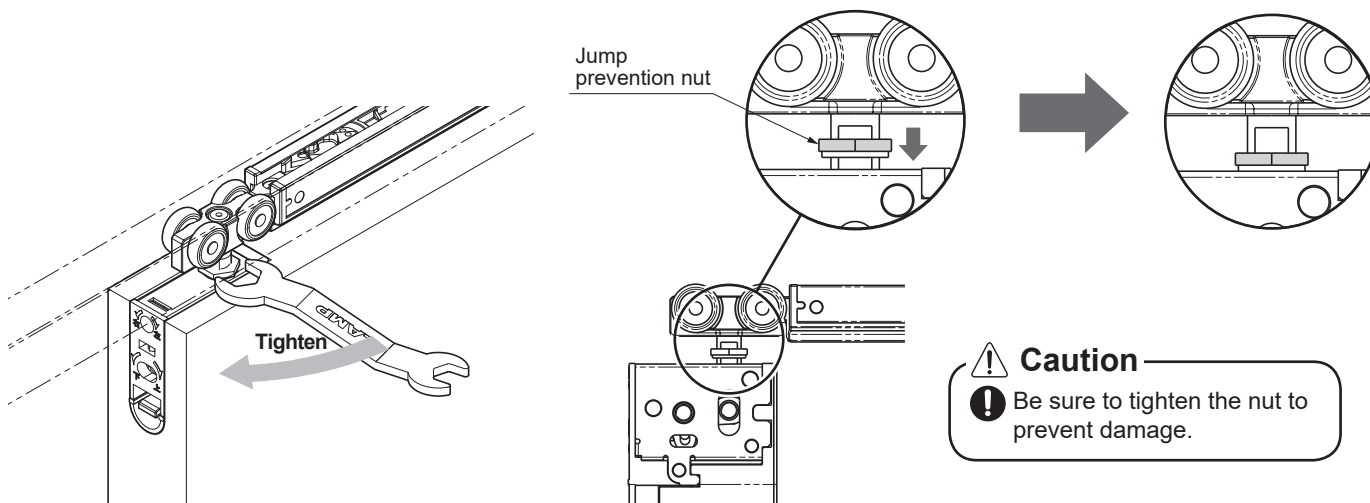
If the door movement is not smooth, remove the door, then adjust the floor guide forwards or backwards.

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.

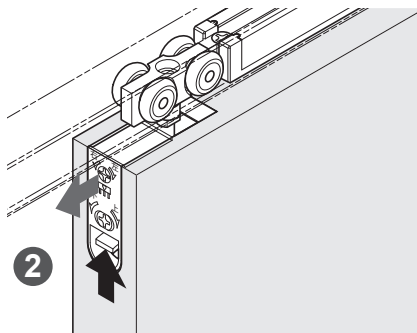


- Caution**
- Be sure to tighten the nut to prevent damage.

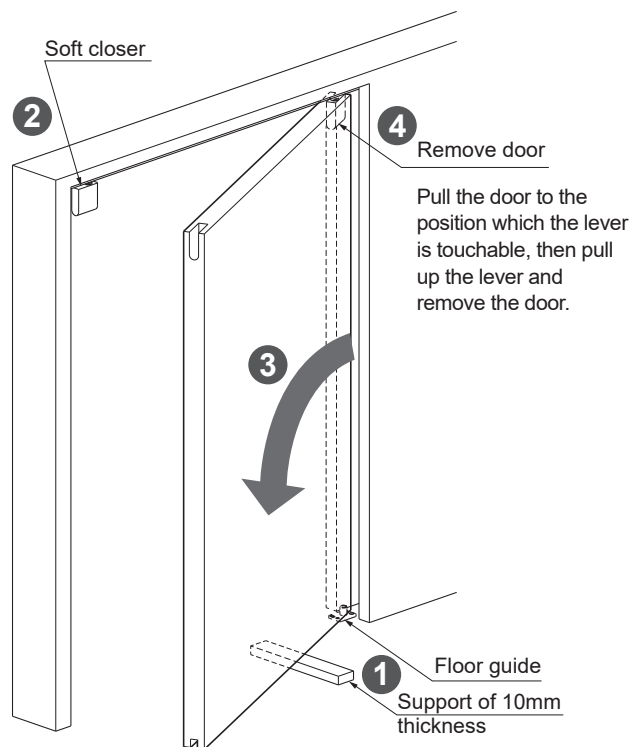
Appendix 1 How to Remove Door, Track

[1] How to remove door

- ① Put a support of 10 mm thickness under the door.
- ② Pull out the leading edge roller (main unit) from the casing, while pushing the lever on the roller.
- ③ Pull out the door, while making sure not to let it scratch against the door pocket.
- ④ Pull out the trailing edge roller from the casing.



Caution
 Be careful not to let the door fall.

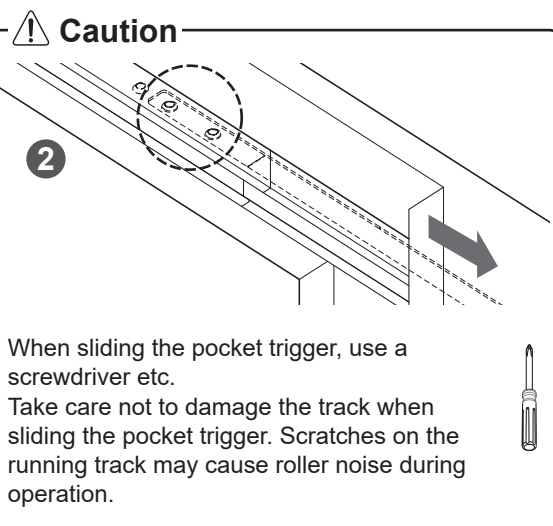
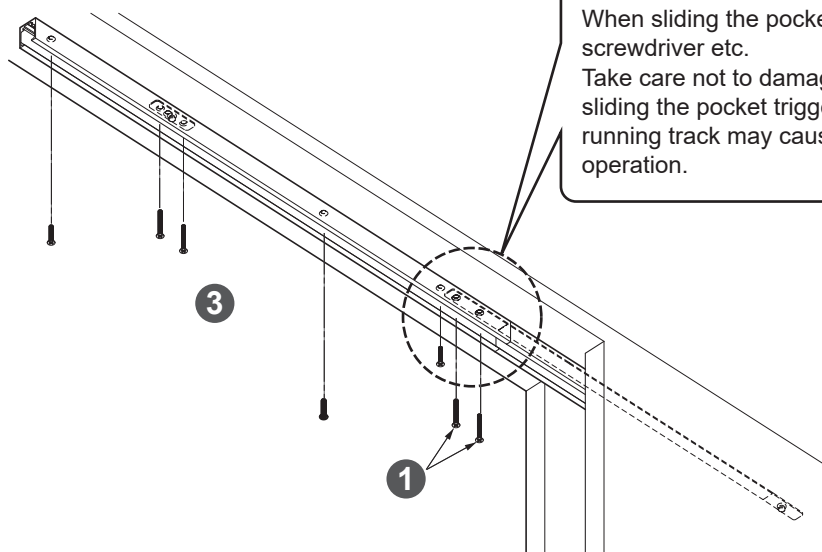


[2] How to remove Upper track

- ① Remove the pocket trigger screws.
- ② Slide the pocket trigger into the door pocket track.
- ③ Remove the open area track.

Caution
 The trigger can be deformed if the open area track is removed if the pocket trigger has not been moved into the pocket track.

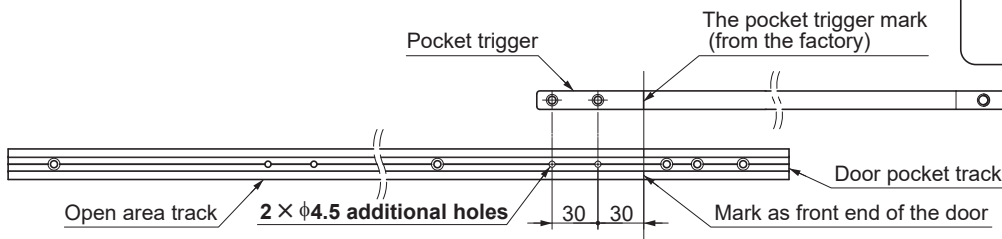
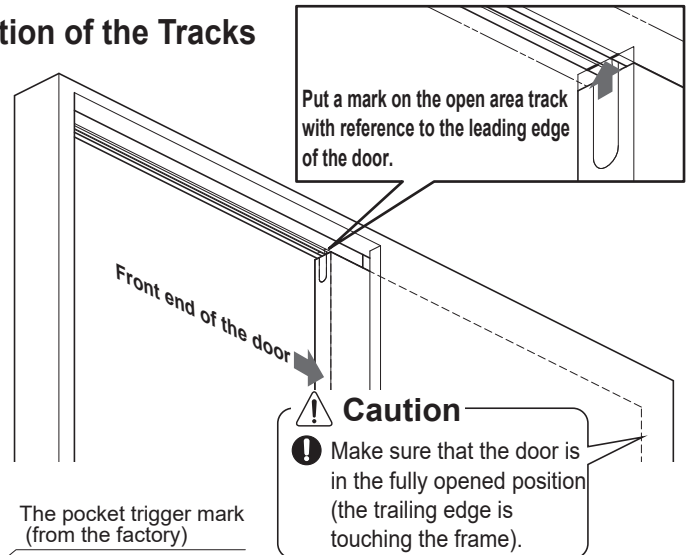
Hold the open area track when removing the last screw.



Appendix 2 How to Shift the Connecting Position of the Tracks

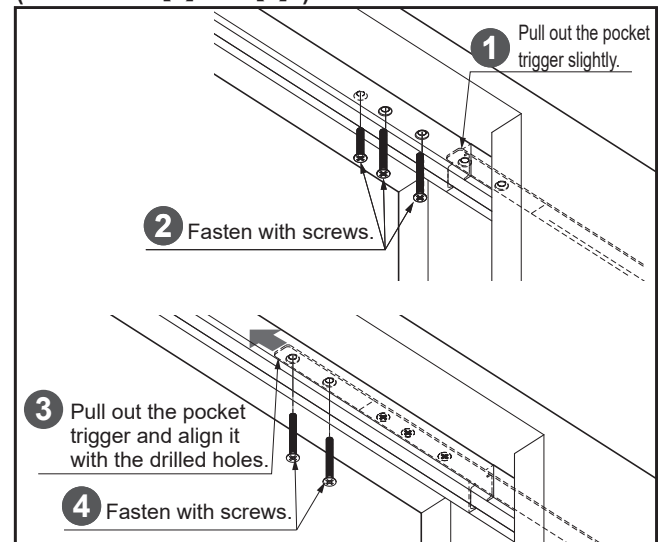
[1] When determining the trigger position on site

- (1) Put a mark on the open area track with reference to the front end of the door at the fully opened position.
(Use masking tape so that the track isn't marked)
- (2) Remove the open area track.
Remove the door according to the procedure - **Appendix 1**: How to remove the door, then remove the open area track.
 - Drill additional holes for trigger on the open area track.
(See the drawing below.)



- (3) Mounting open area track
Follow the figure to the bottom right, since the working sequence is different from the regular process.
- (4) Hanging the door
Refer to the procedure [2] and the following procedures on page 3.

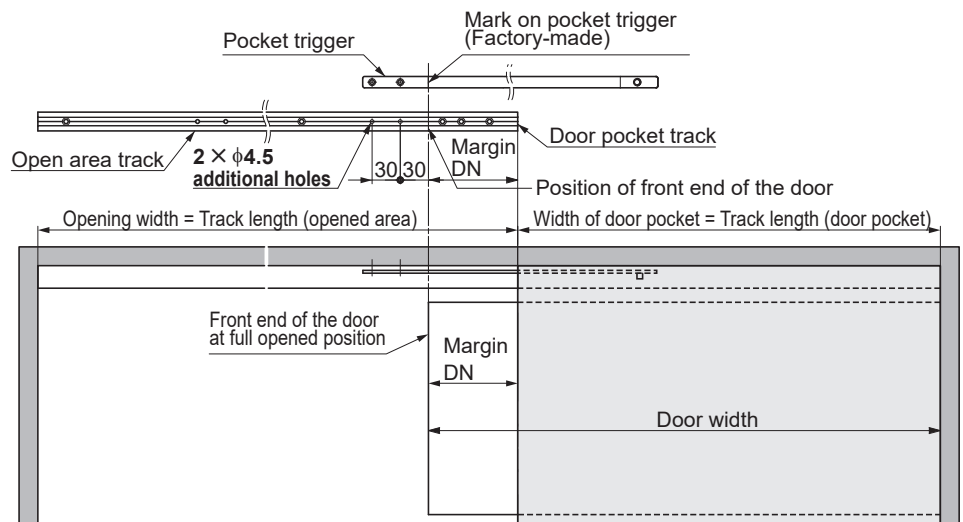
Working sequence for mounting the open area track (common to [1] and [2])



[2] How to process the holes for pocket trigger in advance

[Example] Door pocket track with length equal to the width of the door pocket.

- (1) Drill holes for the pocket trigger according to the drawing below.
- (2) Fix the open area track, while following the above right figure, since the working sequence is different from the regular process.



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 the 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 the upper track is set horizontally. | Using a level gauge, reset the upper track horizontally. |
| | Check if mohair seal is installed. | Reduce the friction between the mohair seal 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 the soft closer. |
| | The position of trigger catcher in page 4 section 5 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 in section 5. |
| Abnormal noise during operation | Check if door bottom contacts the 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 door touches adjacent parts. | Adjust position of the floor guide. |
| | Check track rollers for aluminum dust. | Remove the track, then pull out and clean the roller. |
| | Check the track mounting screws for looseness. | Retighten the screws to free the roller. |
| Heavy door operation | Check if door bottom contacts the 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 door touches adjacent parts. | Adjust position of the floor guide. |
| Door does not move. | Check the track retaining screws for looseness. | Retighten screws to free the roller. |
| Door starts to move. | Check if the upper track is set horizontally. | Using a level gauge, reset the upper track horizontally. |
| Door stops or caught during operation. | Check if there is any gap or misalignment between the tracks. | Correct the misalignment or gap. |

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ISO9001(Japan Offices and Sugatsune America) and ISO14001(Chiba Production division and Logistics center), certified.

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