

# LAMP® FD80-H HEAVY DUTY SLIDING DOOR SYSTEM Installation Manual (Ceiling Mount Type for Pocket Door, with Two-way Soft Close)

Part No.FD80DHCHP-PD

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 heavy duty sliding door system for residential & commercial use.
- Built in soft closer, enables two-way soft closing movement in both direction.
- Two sections of track for easy maintenance after installing.

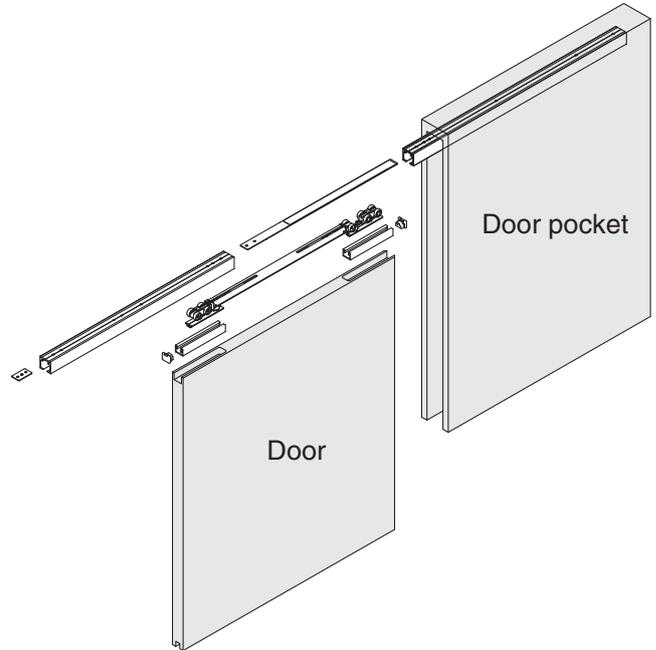
## SPECIFICATIONS

Door height	Max. 2500 mm	2501 – 2700 mm
Door width	784 – 1500 mm	850 – 1500 mm
Min. Door thickness	34 mm	
Max. Door weight	80 kg/door	
Vertical adjustmernt	1 mm upward, 4 mm downward	

· 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 .

※ <sup>1</sup> 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

 <b>Warning Caution</b>	 <b>Prohibited</b>	 <b>Required</b>
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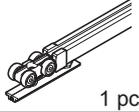
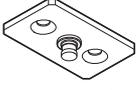
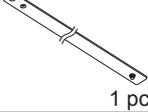
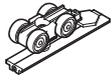
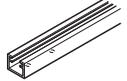
### **Warning : If not followed, it may result in death or serious injury.**

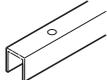
- ❗ This product should be installed by a qualified person in accordance with this manual. If it is not installed correctly, the door may fall and cause injury.
- ❗ Provide a frame that can withstand the weight and impact of opening and closing the door. Be sure to use the specified screws and tighten 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.

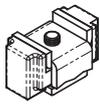
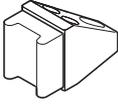
### **Caution : If not followed, it may result in injury or damage.**

- ❗ 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.
- ❗ When installing the “pocket door” specification, make an “easy-maintenance” structure. For example, use a removable panel.
- ❗ We recommend that the installation is carried out by two people, in order to ensure proper installation and avoid unnecessary stress on the parts.
- ❗ 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).

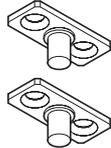
## COMPONENT PARTS

No.	①	②	③	④	⑤	⑥	⑦
Name	Upper track	Soft closer (two-way)	Trigger Jig	Front trigger	Pocket trigger	Upper roller	Hanging bracket
Order code	Available with various length and finishe	250-022-239	250-036-530	250-029-709	250-025-460	250-022-241	250-120-608
Part No.	FD80-TRP Series	FD80-WRH-DSC	FD80-TRG	FD80-TRGPF	FD80-TRGPB-HB	FD80-WRH	FD70B-HB160
Parts		 1 pc	 1ヶ	 1 pc	 1 pc	 1 pc	 2 pcs
Accessories	Countersunk head tapping screws 5 × 40 (Q'ty depends on the hole location)	Hex key 3 mm	Included in ②	Countersunk head tapping screws 4 × 40 2 pcs	Countersunk head tapping screws 4 × 40 2 pcs	Hex key 3 mm	Pan head tapping screws 5 × 40 4pcs

⑧	⑨	⑩	⑪
End cap	Floor guide	Door guide track	Spanner wrench
250-121-142	250-029-718	250-019-971	250-022-252
FD70B-EC-BL	FD50-BGR18	FD30-HBRT1500SIL	FD80-HHSP
Black  2 pcs	 1 pc	 1 pc	 1 pc
部品セットはブラックです。別売でホワイトもあります。	Countersunk head tapping screw 4 × 20 4pcs	Recommended screw : Countersunk head tapping screws 4 × 20	Nominal designation 13 mm, 22 mm

Options	No.	⑫	⑬
	Name	Stopper block	Door stopper (floor)
	Part No.	FD80-HSB	FD30-HTKY
Parts			

**✗ FD80 Below parts which are packed with soft closer ① are not needed for this application.**



Trigger : 2 pcs



Countersunk head tapping screws 4 × 30 D6 : 4 pcs

## TOOLS REQUIRED FOR INSTALLATION



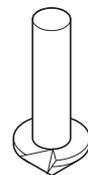
• Philips head driver #2



• Drill bit for metal: φ5



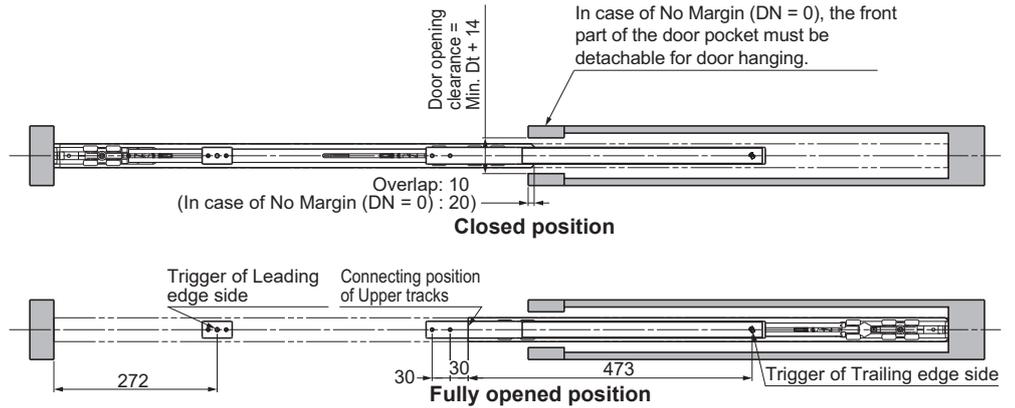
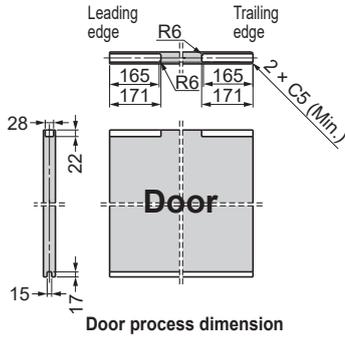
• Machine or tool for cutting aluminum alloy



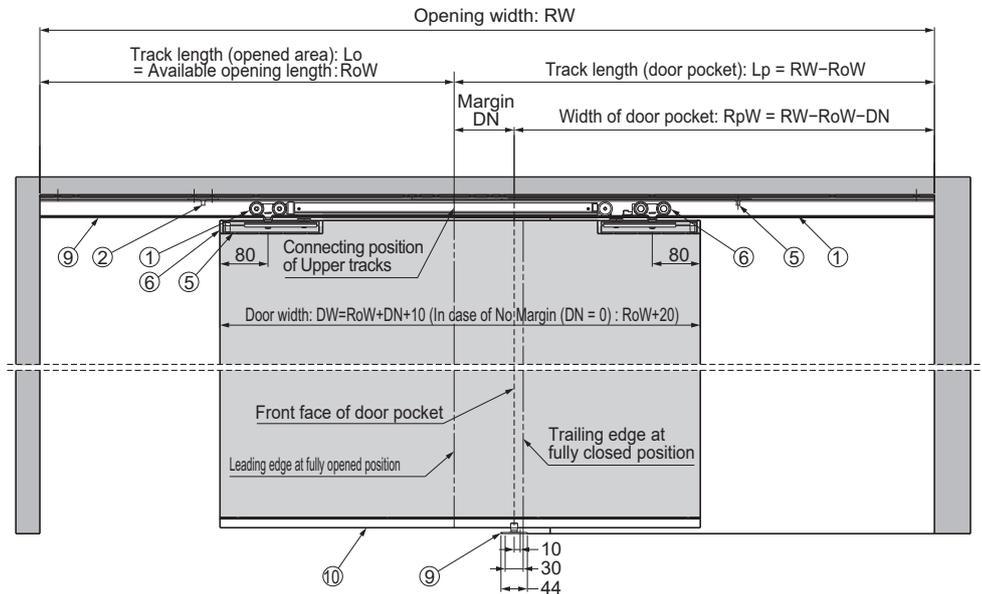
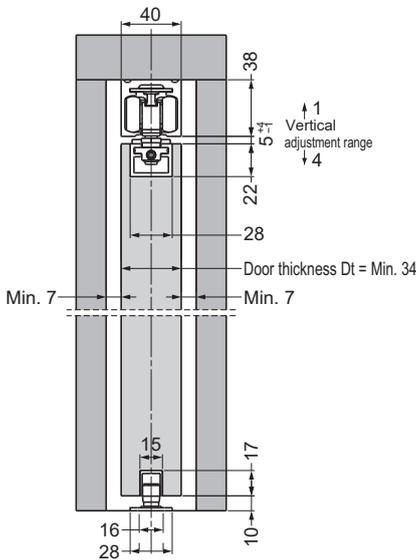
• Drill bit for metal (for φ11.4 countersunk hole)

# INSTALLATION DRAWING (EXAMPLE)

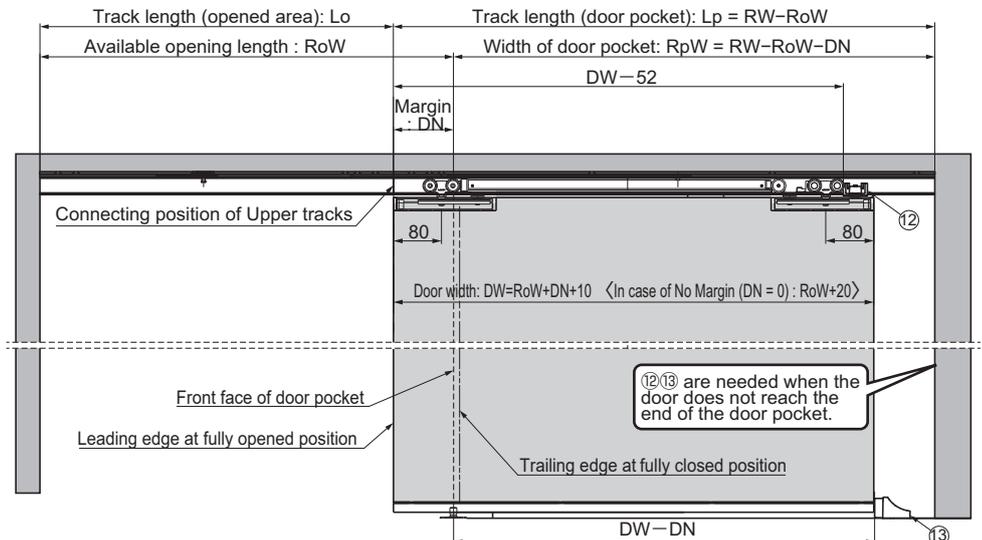
The example shows the sliding door when the leading edge (at the fully opened position) is aligned with the connecting position of the upper tracks. To shift the connecting position towards the trailing edge, see page 11.



**[Recommended]**  
Door pocket track length (Lp) = Door width (DW)  
(The end of door pocket stops the door.)



**When the door pocket track is longer than the door width. (Lp > DW)**  
(Door stoppers are needed to stop the door.)

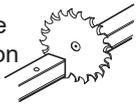


# INSTALLATION PROCEDURE

## 1 Cutting and Hole Drilling on Upper Track

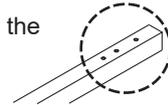
### ⚠ Caution

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

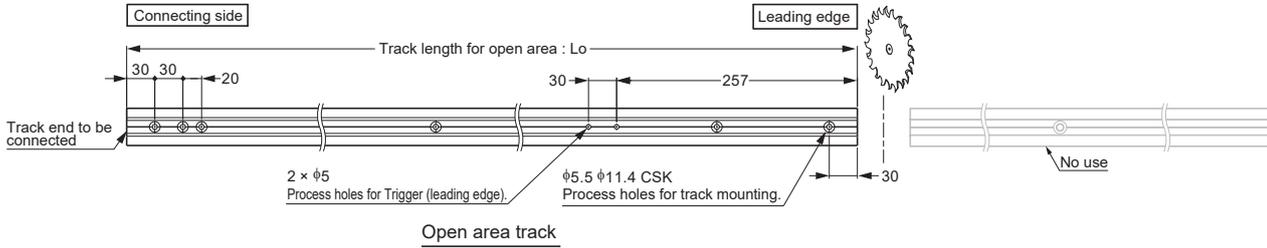


### ⚠ Caution

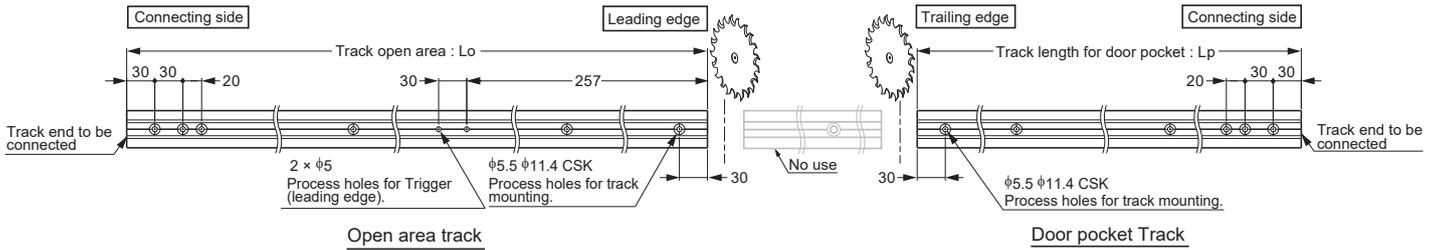
⊘ Do not cut the track on the side with three holes.



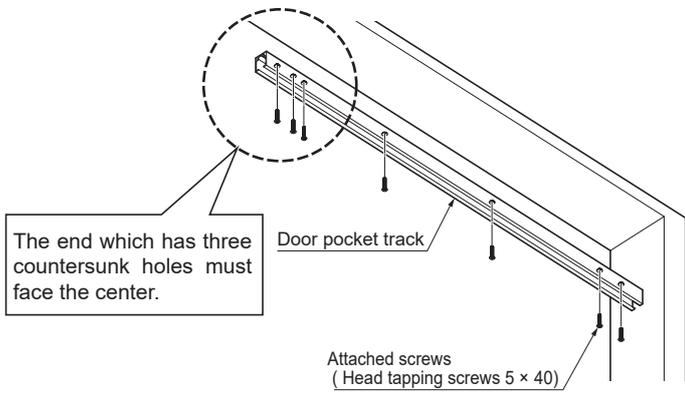
When using 1260 mm track



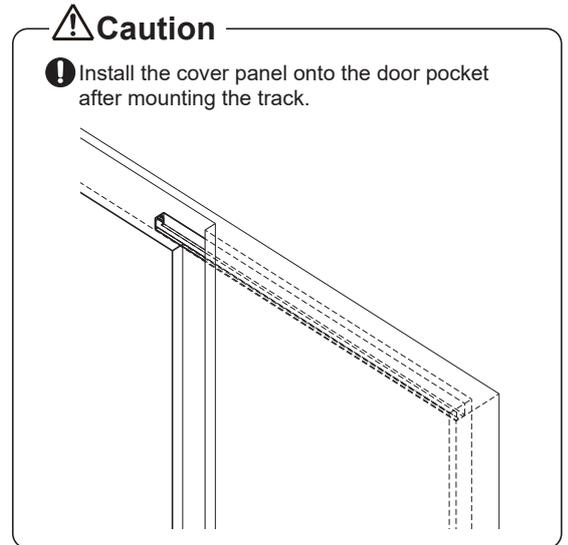
When cutting from a long track (2160 mm, 2760 mm, 3960 mm)



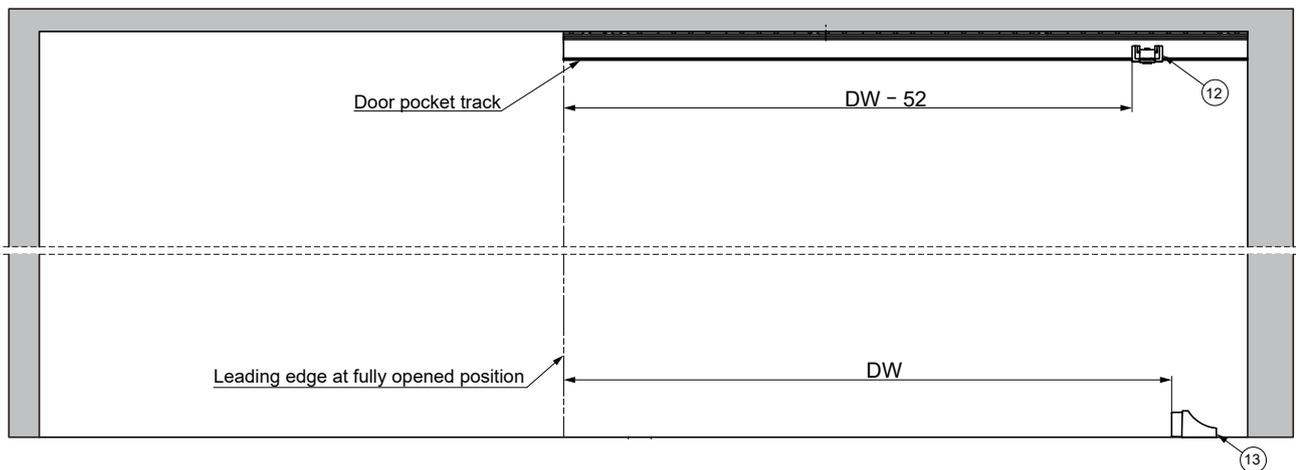
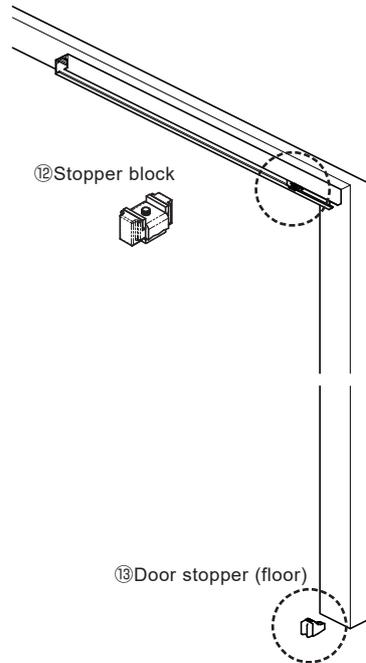
## 2 Mounting of Door Pocket Track



**Caution**  
Remove any dirt or aluminum chips from the track

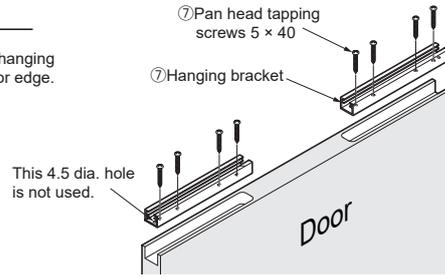
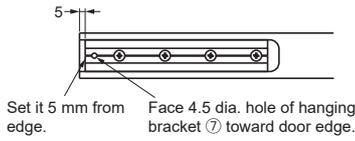


When the door pocket track is longer than the door width. ( $L_p > DW$ )



### 3 Installing Hanging Bracket

Fixing position

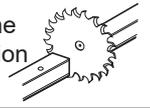


### 4 Installation of Guide Track

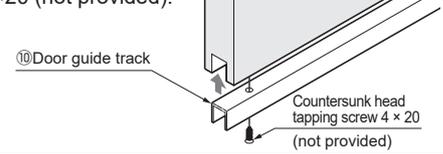
[1] Cut the track to the same length as the door width.

#### ⚠ Caution

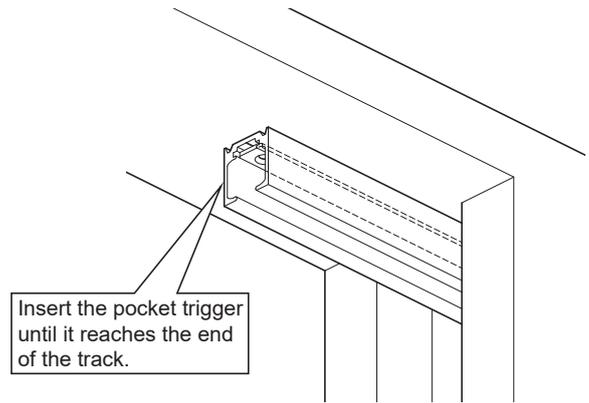
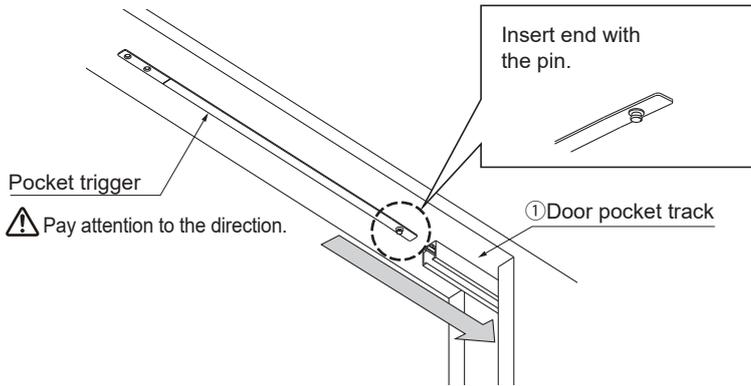
❗ When cutting, reinforce the track to prevent deformation at the cut section.



[2] Fasten the track with countersunk head tapping screw 4x20 (not provided).



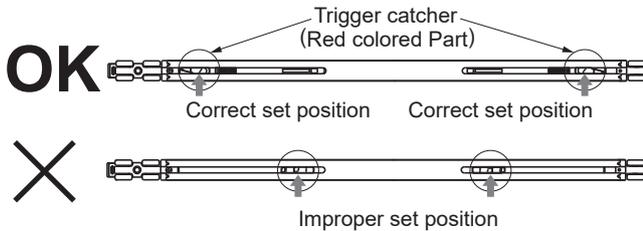
### 5 Installing Pocket Trigger



### 6 Verification Before Installing the 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.

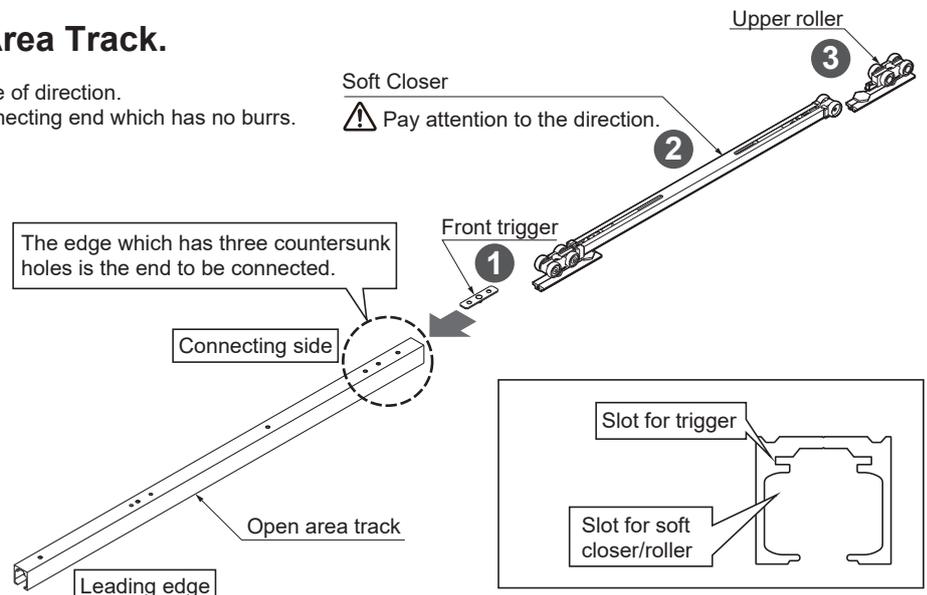
### 7 Inserting Parts into Open Area Track.

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.

The edge which has three countersunk holes is the end to be connected.



## 8 Mounting of Open Area Track.

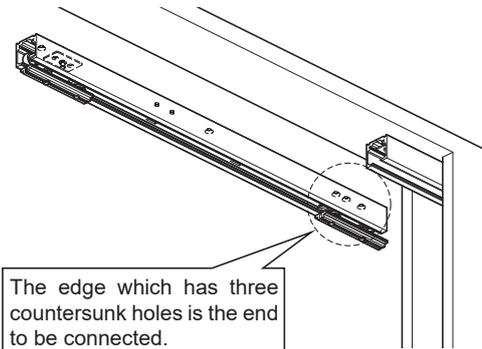
### [1] Connecting to door pocket track.

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.

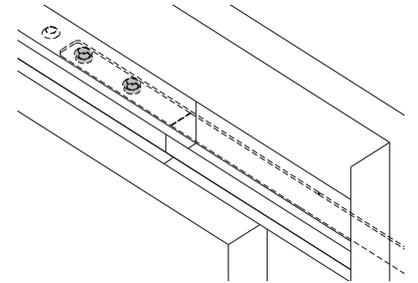
#### ⚠ Caution

- ❗ Remove any dirt or aluminum chips from the track.



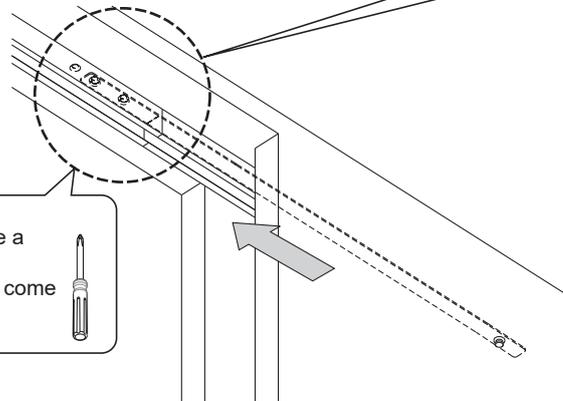
#### ⚠ Caution

- ❗ 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.



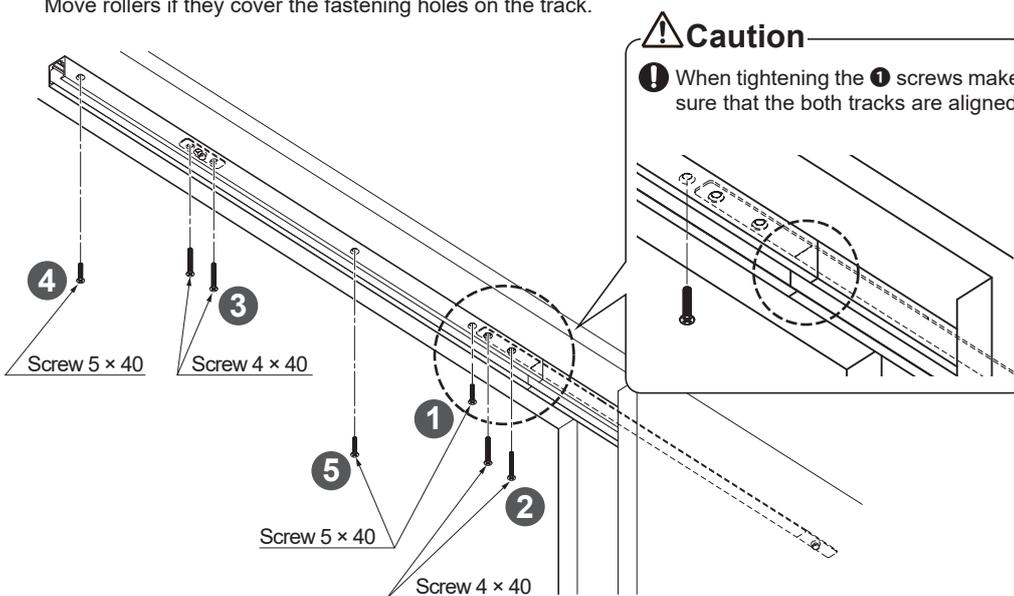
#### ⚠ Caution

- ❗ When sliding the pocket trigger, use a screwdriver. The screwdriver may unexpectedly come out and damage the track.



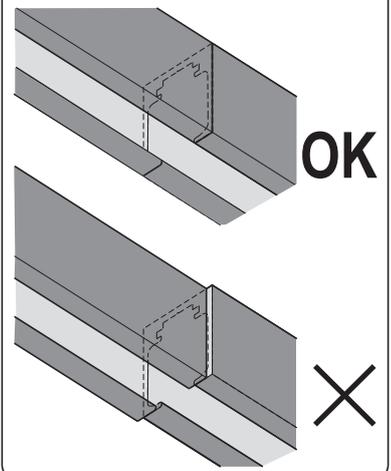
### [2] Fastening trigger and track

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

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

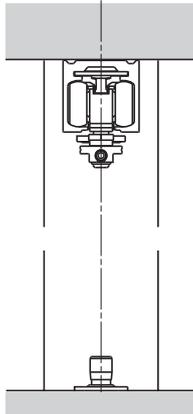


#### ⚠ Caution

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

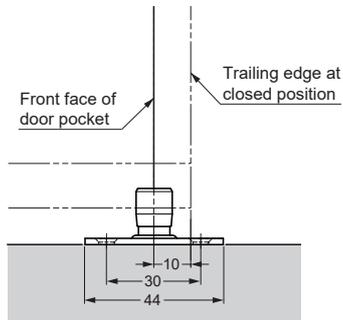
## 9 Mounting of Floor Guide Temporarily

Position floor guide just below the center of the upper track.

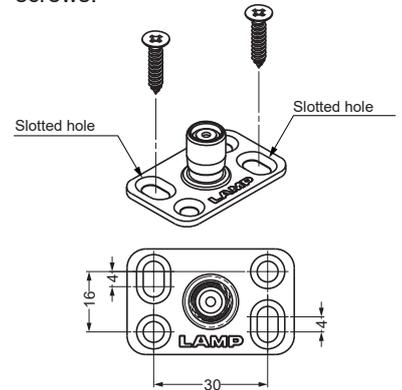


### Caution

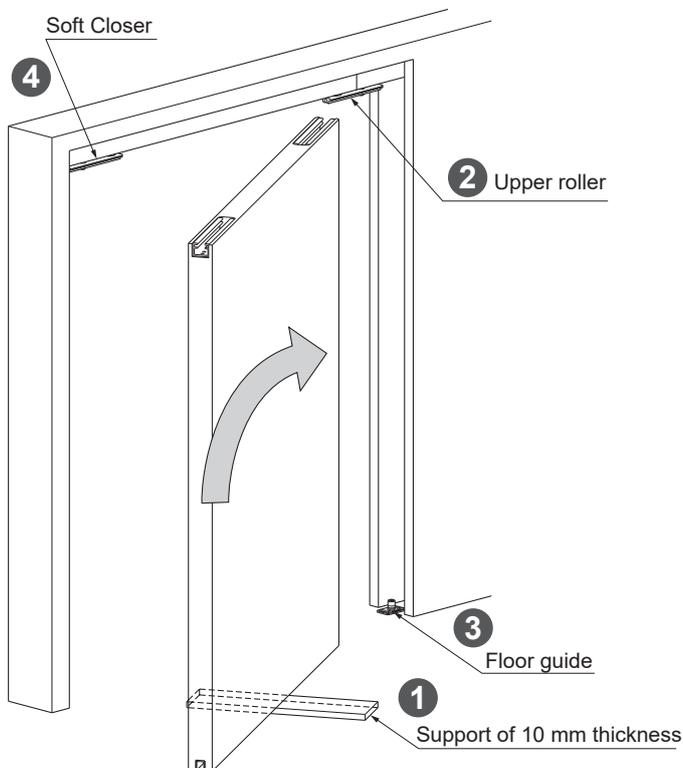
The position of the model where the margin occurs is shown in the figure.



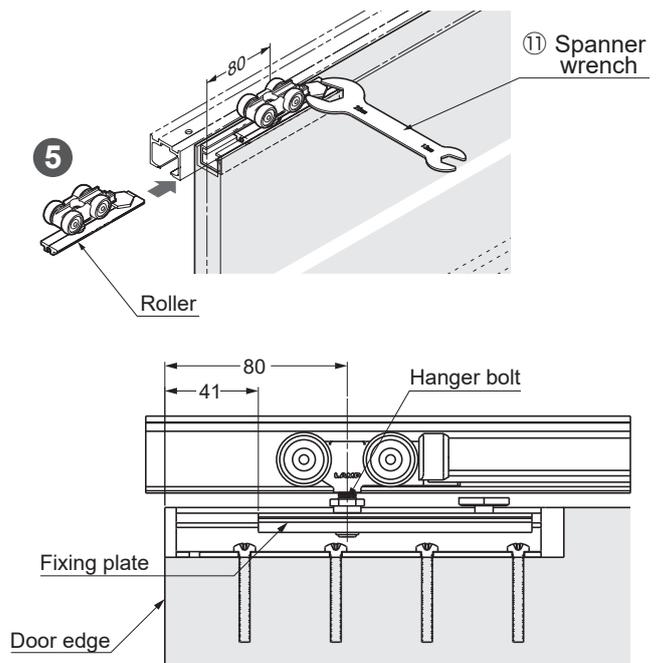
Temporarily fasten through the slotted holes with the provided screws.



## 10 Hanging Door



Insert the roller into the hanging bracket in the door. Position roller hanger bolt to 80 mm from door edge (41 mm to fix plate edge). Tighten fix bolt with spanner ⑪.

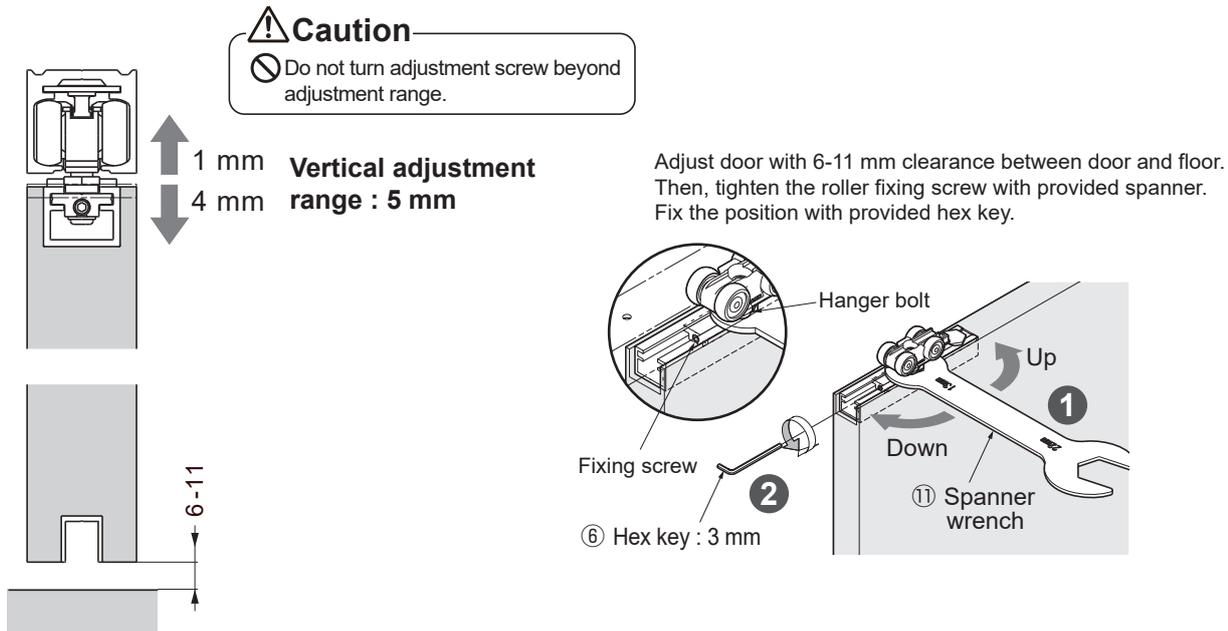


## 6 Verification of Soft Closer Operation

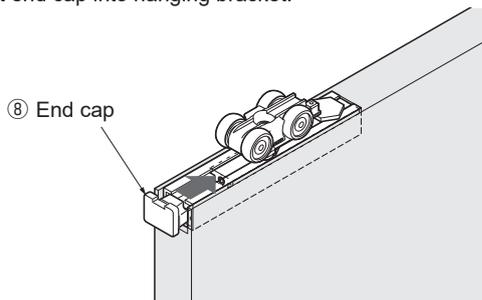
- Starting point of soft - close : approx. 115 mm before the stop position.

## 11 Adjusting The Door Position

Adjust the door so that it is parallel to the upper track with 6-11 mm of clearance between the door and floor.



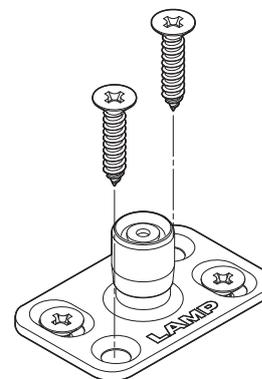
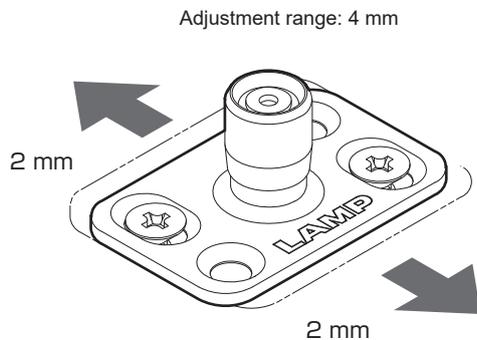
Insert end cap into hanging bracket.



## 12 Adjusting, Fastening Floor Guide

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

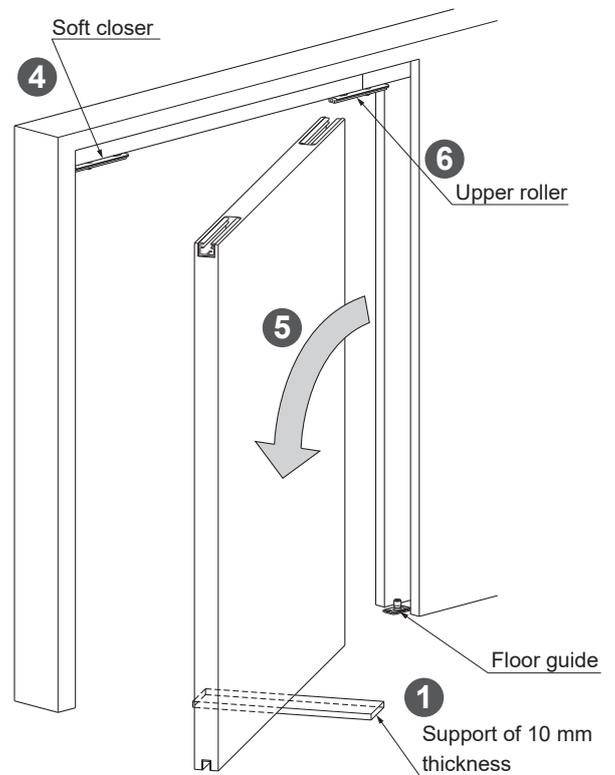
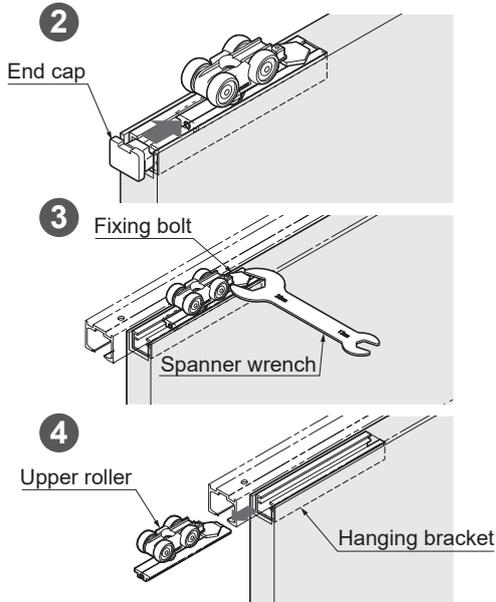
Tighten all 4 screws after the adjustment.



## Appendix 1 How to Remove the Door, Track

### [1] How to remove the door

- ① Put a support of 10 mm thickness under the door.
- ② Remove the end cap.
- ③ Loosen fixing bolt with spanner wrench ⑪.
- ④ Pull out roller.
- ⑤ Pull out the door, while making sure not to let it scratch against the door pocket.
- ⑥ Pull out the roller on the trailing edge.



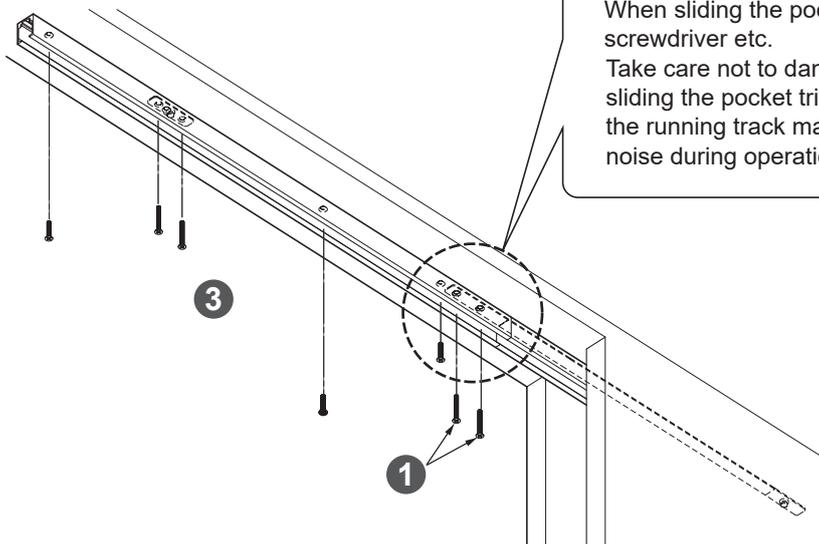
### [2] How to remove upper track

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

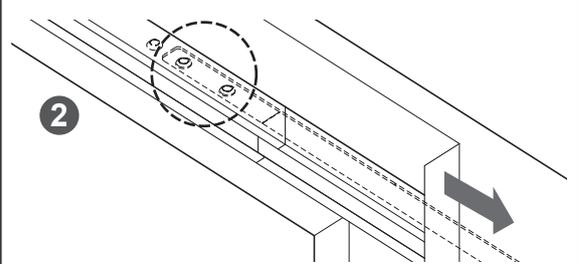
#### ⚠ Caution

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.



#### ⚠ Caution



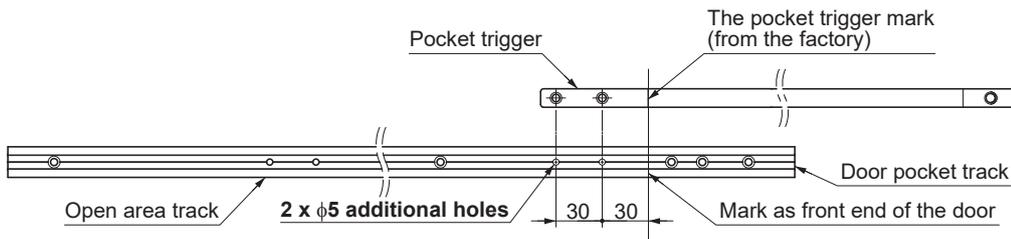
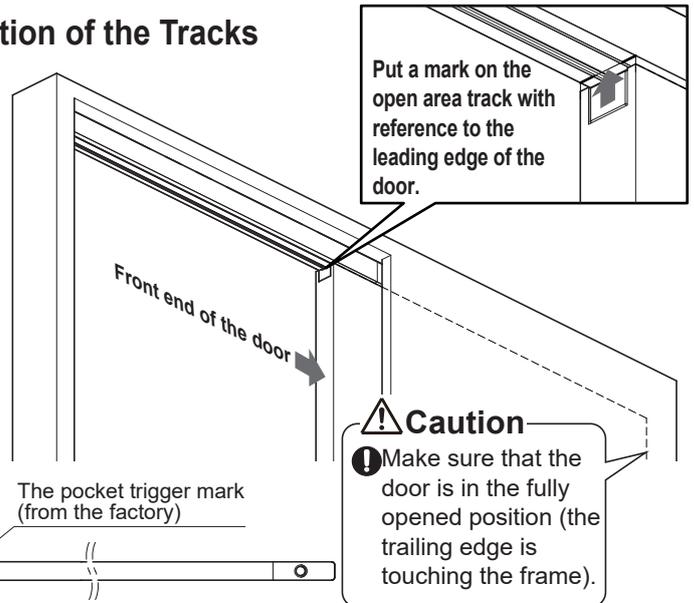
When sliding the pocket trigger, use a screwdriver etc.  
Take care not to damage the track when sliding the pocket trigger. Scratches on the running track may cause a roller noise during operation.



## Appendix 2 How to Shift the Connecting Position of the Tracks

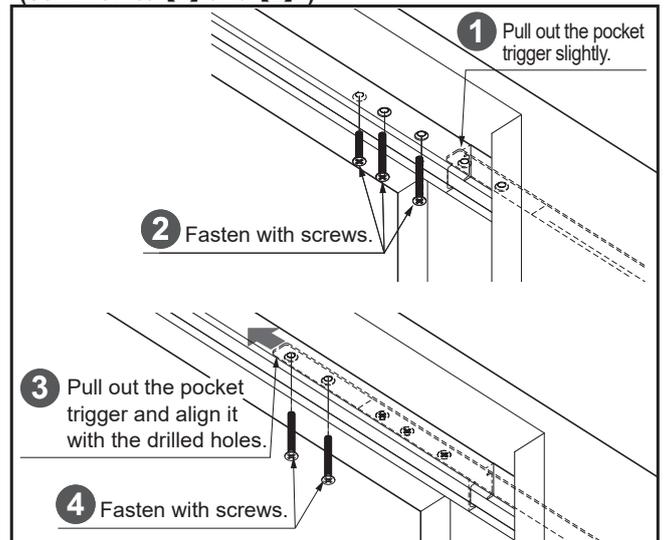
### [1] When determining the trigger position on site

- (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.

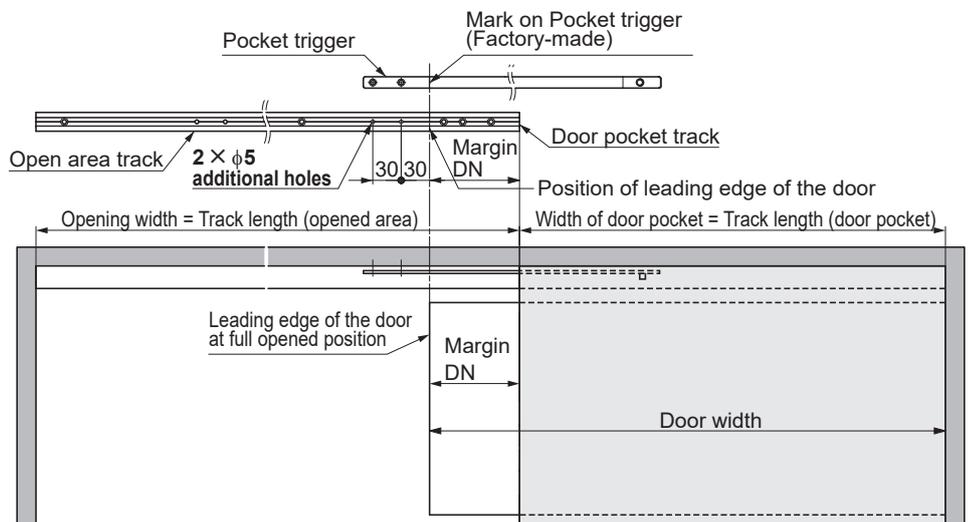
### Working sequence for mounting the open area track (common to [1] and [2])



### [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.



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

**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 - 11 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 6 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 6.
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 - 11 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 - 11 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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