

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

Part No.FD80DHCMP-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.

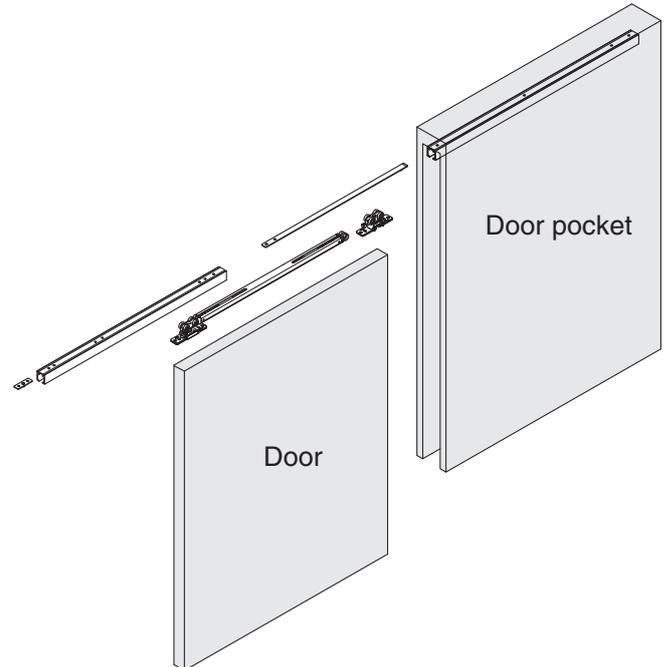
## SPECIFICATIONS

|                      |               |                |
|----------------------|---------------|----------------|
| Door height          | Max. 2500 mm  | 2501 – 2700 mm |
| Door width           | 784 – 1500 mm | 850 – 1500 mm  |
| Min. Door thickness  | 30 mm         |                |
| Max. Door weight     | 80 kg/door    |                |
| Vertical adjustmernt | ± 4 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 .

※ <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



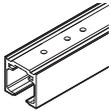
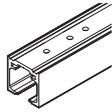
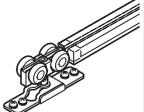
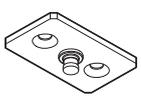
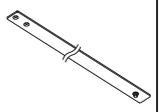
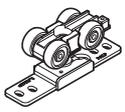
### **Warning** : If not followed, it may result in death or serious injury.

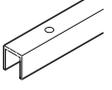
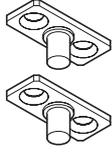
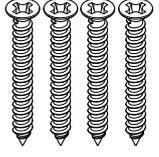
- ❗ This product should be installed by a qualified person. If the system is not installed correctly, the door will not operate smoothly, and may cause injury.
- ❗ It is necessary to manufacture the frame with sufficient strength so that it endures the weight of the door and any impact upon opening/closing 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 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.

- ❗ Make sure to follow the designated dimensions, specifications, and horizontal/vertical angles. Make sure that the frame and door are 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 functioning and safe. 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” 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.

## COMPONENT PARTS

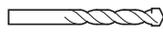
| No.         | ①   | ②   | ③   | ④   | ⑤  | ⑥   | ⑦   |   |
|-------------|---|---|---|---|--|---|---|---|
| Name        | Upper track   | Soft Closer (two - way)   | Trigger Jig   | Front trigger   | Pocket trigger   | Upper roller  | Floor guide   |   |
| Order code  | Available with various length and finishes  | 250-022-240   | 250-036-530   | 250-029-709   | 250-029-708  | 250-022-242   | 250-029-718   |   |
| Part No.    | FD80-TRP  | FD80-WRM-DSC  | FD80-TRG  | FD80-TRGPF  | FD80-TRGPB-MB  | FD80-WRM  | FD50-BGR18  |   |
| Parts       | <br>1 pc | <br>1 pc | <br>1 pc | <br>1 pc | <br>1 pc | <br>1 pc | <br>1 pc | <br>1 pc |
| Accessories | Countersunk head tapping screws 5 x 40 (Q'ty depends on the hole location)                | Pan head tapping screws 4 x 45 4 pcs  | Included in ②   | Countersunk head tapping screws 4 x 40 2 pcs  | Countersunk head tapping screws 4 x 40 2 pcs   | Pan head tapping screws 4 x 45 4 pcs  | Countersunk head tapping screws 4 x 20 4 pcs  |   |

| No.         | ⑧   | ⑨  | ⑩   | ⑪   |  <b>FD80 Below parts which are packed with soft closer ① are not needed for this application.</b> |
|-------------|---|--|---|---|--|
| Name        | Door guide track  | Spanner wrench   | Stopper block   | Door stopper (floor)  |  |
| Order code  | 250-019-971   | 250-017-168  | 250-022-251   | 250-018-497   |  |
| Part No.    | FD30-HBRT1500SIL  | FD30-FSP   | FD80-HSB  | FD30-HTKY   |  |
| Parts       | <br>1 pc | <br>Nominal designation 10 mm, 12 mm  |  |  |  |
| Accessories | Recommended screw : Countersunk head tapping screws 4 x 20                                | <br>Trigger : 2 pcs<br><br>Countersunk head tapping screws 4 x 30 D6 : 4 pcs |   |   |  |

## TOOLS REQUIRED FOR INSTALLATION



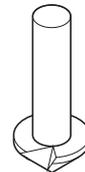
• Philips head driver #2



• Drill bit for metal:  $\phi 5$



• Machine or tool for cutting aluminum alloy



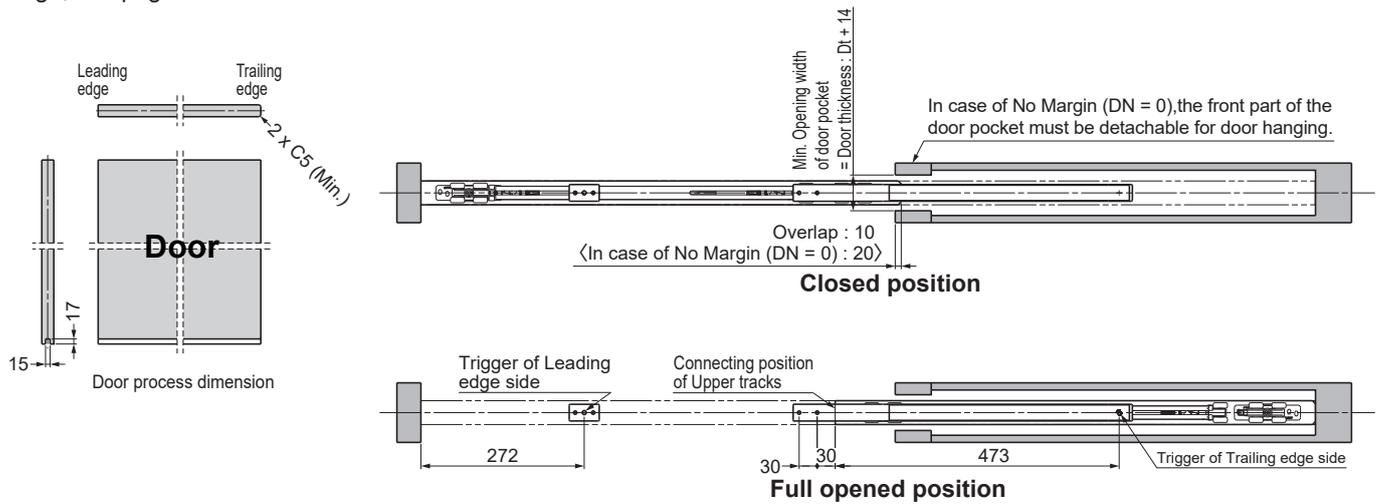
• Drill bit for metal (for  $\phi 11.4$  countersunk hole)



• Spanner wrench (Nominal designation 10 mm, max. 6 mm thickness)

# 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.

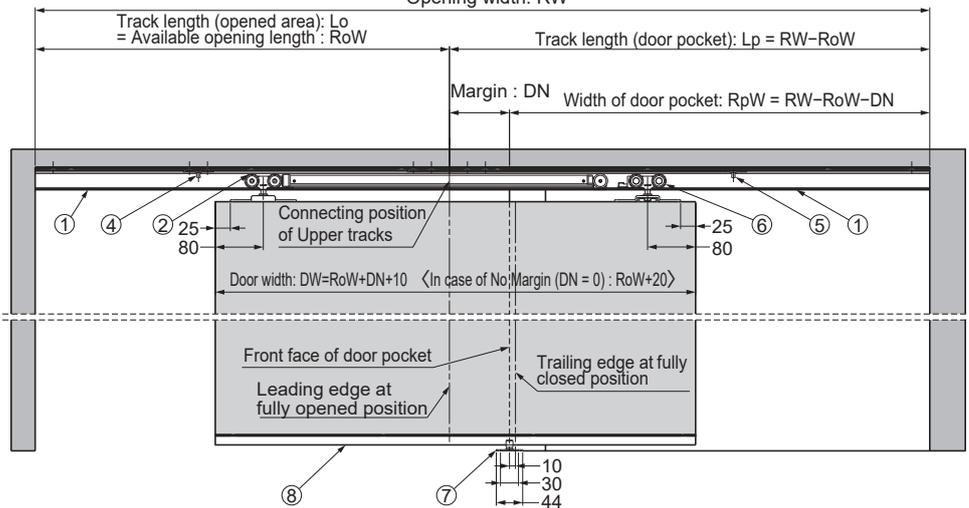
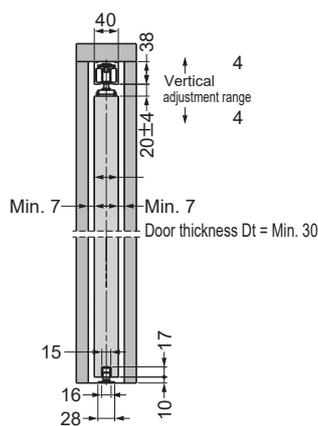


## [Recommended]

Door pocket track length (Lp) = Door width (DW)

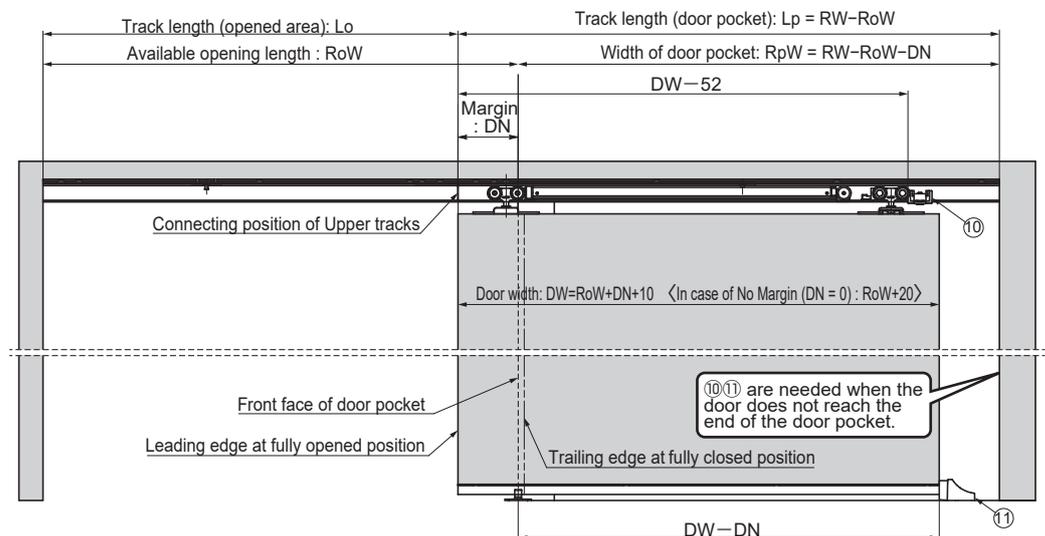
(The end of door pocket stops the door.)

Opening width: RW



## When the door pocket track is longer than the door width. (Lp > DW)

(Door stoppers are needed to stop the door.)

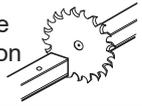


# INSTALLATION PROCEDURE

## 1 Cutting Track and Hole Drilling on Upper Track

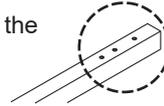
### Caution

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

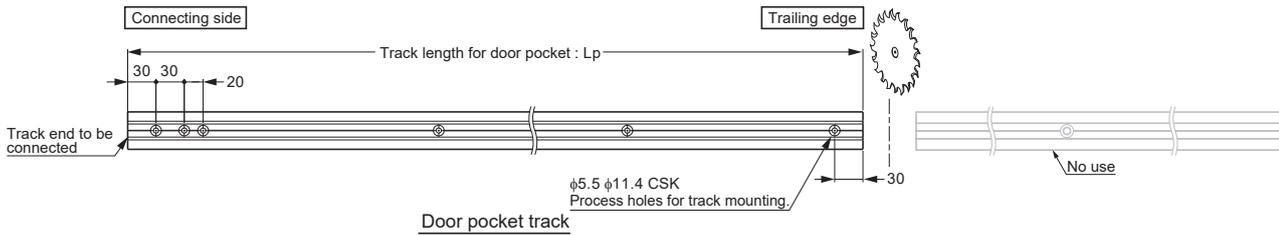
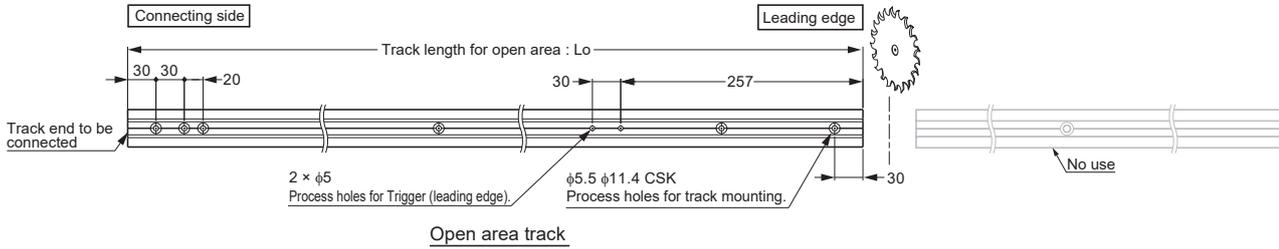


### Caution

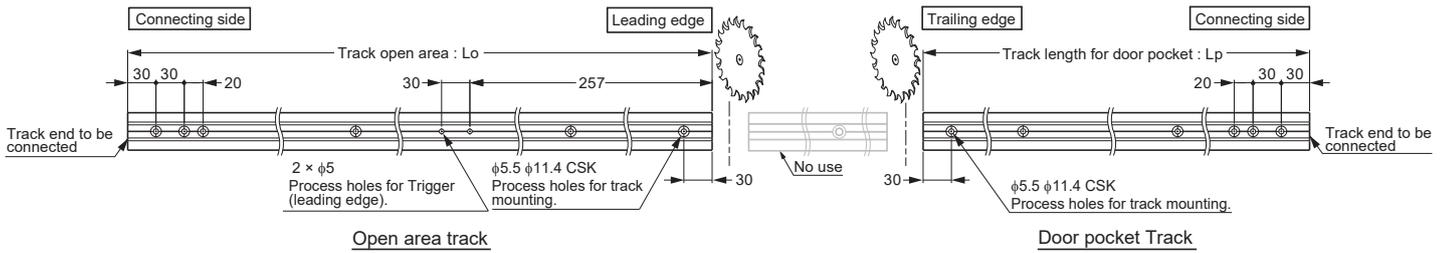
Do not cut the track on the side with three holes.



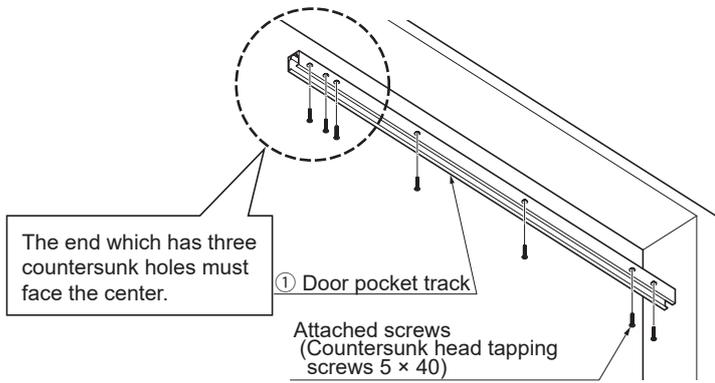
When using 1260 mm track



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

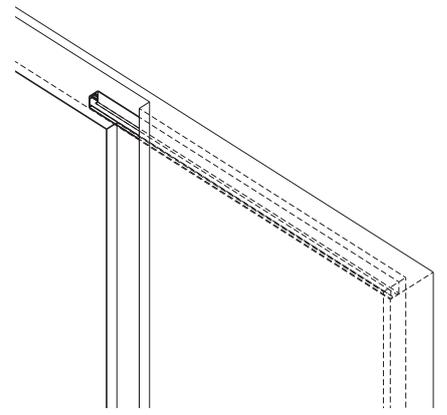


## 2 Mounting of Door Pocket Track

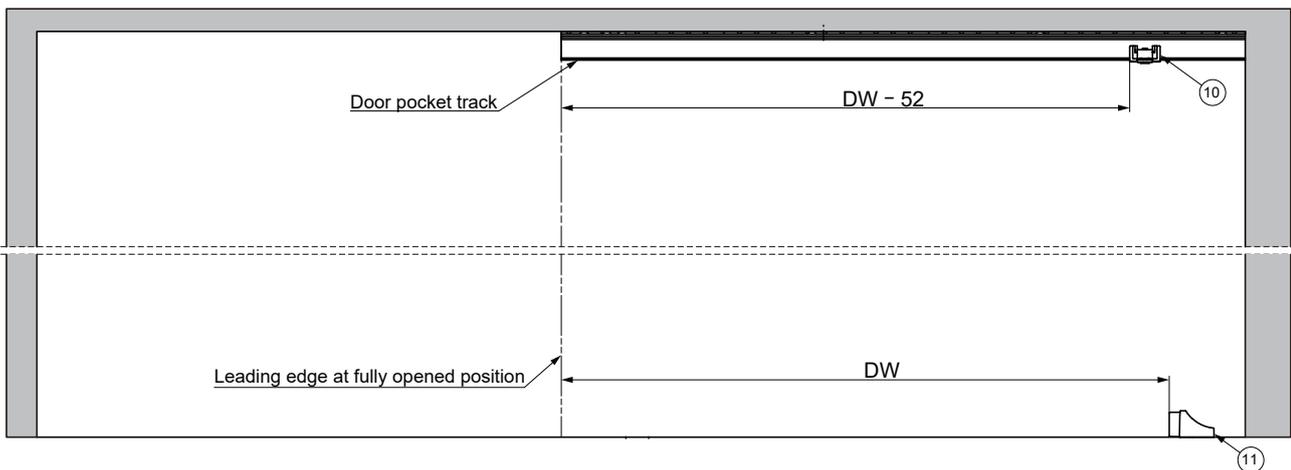
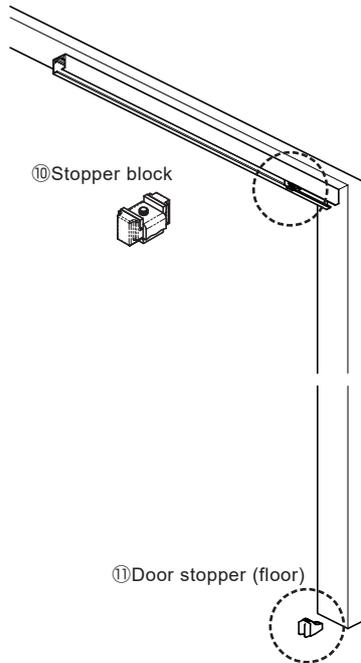


**Caution**  
 Remove any dirt or aluminum chips from the track

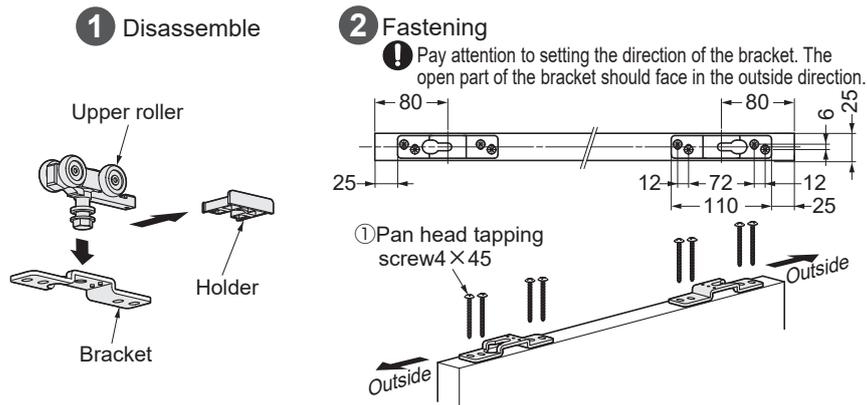
**Caution**  
 Install the cover panel onto the door pocket after mounting the track.



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



### 3 Installing Bracket

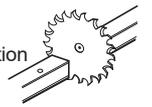


### 4 Installation of Door Guide Track

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

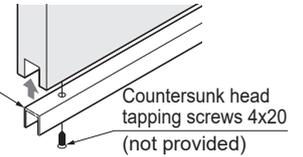
#### Caution

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

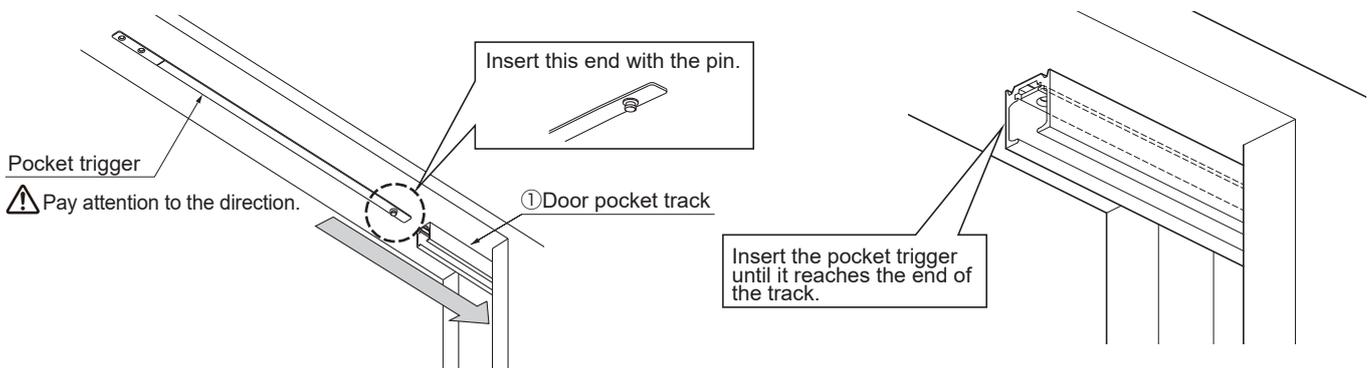


[2] Fasten the track with countersunk head tapping screws 4x20 (not provided).

⑧ Door guide track



### 5 Installing Pocket Trigger

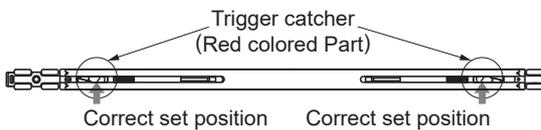


### 6 Verification Before Installing Soft Closer

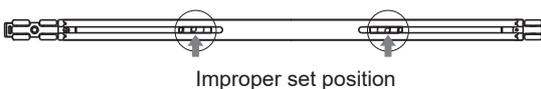
#### Caution

Without verification the self closing feature may fail.

OK



X



VIDEO LINK



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

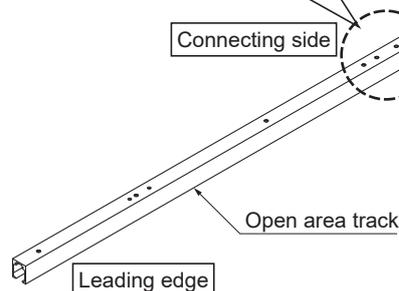
### 7 Inserting Parts into Open Area Track.

Insert the parts in order from ① to ③.  
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.

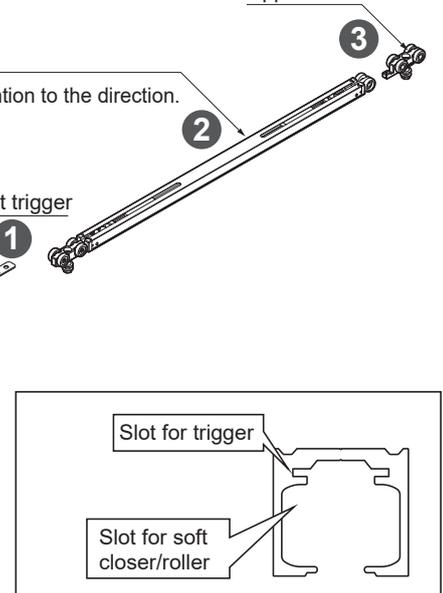


Soft Closer

Pay attention to the direction.

Front trigger

Upper roller



## 8 Mounting of Open Area Track.

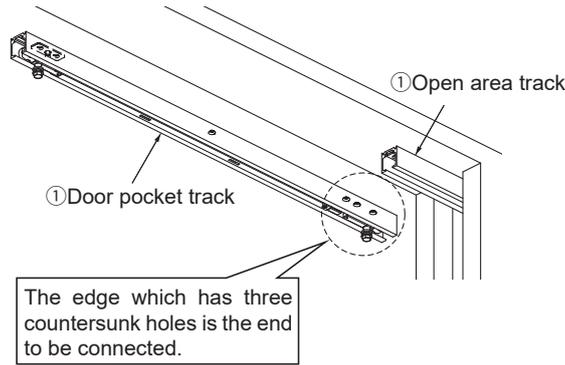
### [1] Connecting to door pocket track.

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.

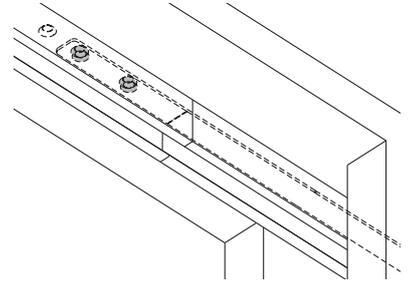
#### ⚠ Caution

❗ Remove any dirt or aluminum chips from the track.



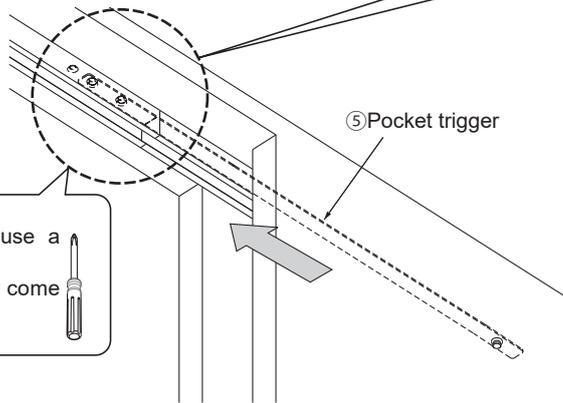
#### ⚠ Caution

❗ 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

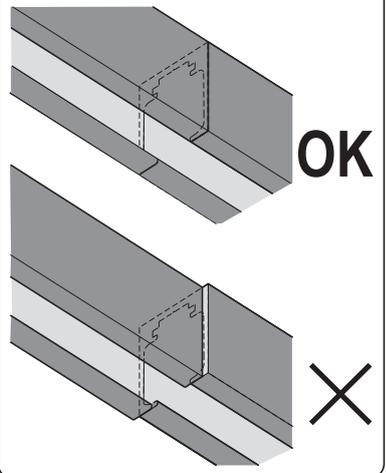
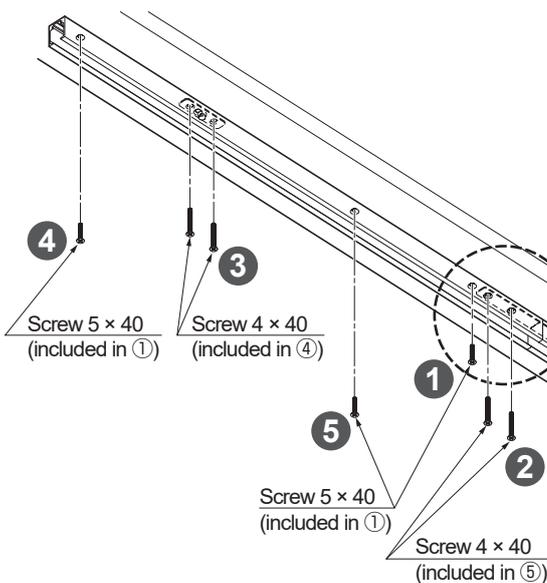
Fasten the Open area track and Pocket trigger with provided screws in order of ① to ⑤. Move rollers if they cover the fastening holes on the track.

#### ⚠ Caution

❗ 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.

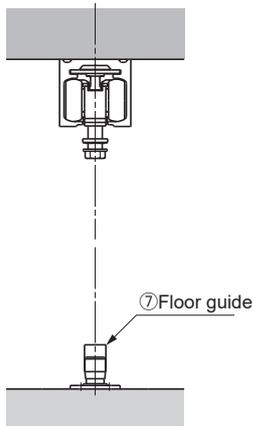


#### ⚠ Caution

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

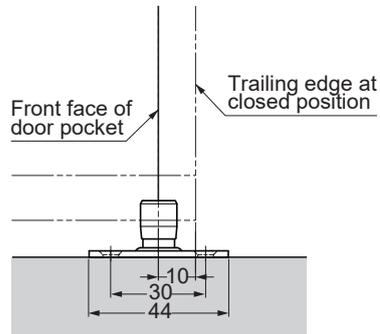
## 9 Mounting of Floor Guide Temporarily

Position floor guide just below the center of upper track.

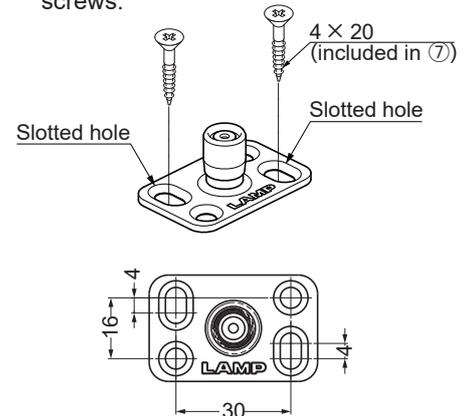


### ⚠ Caution

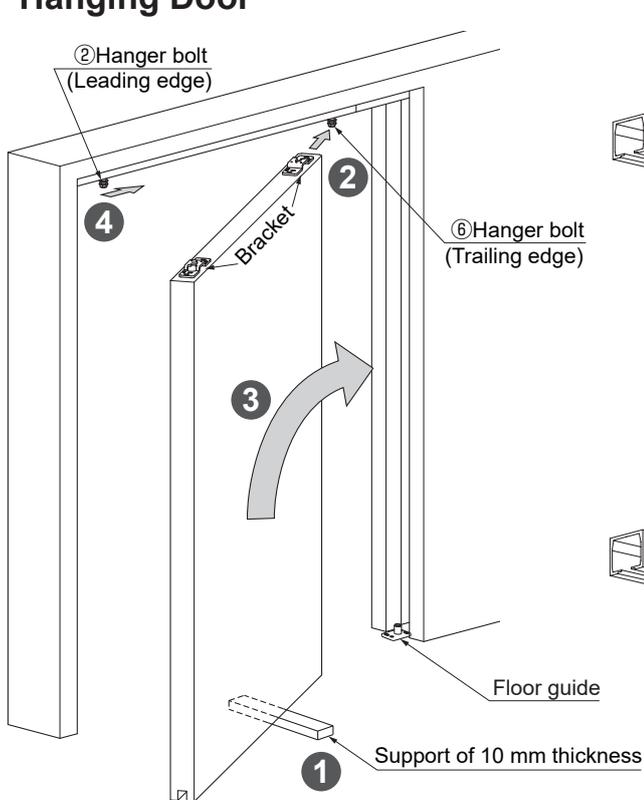
⚠ The position of the model where the margin occurs is shown in the figure.



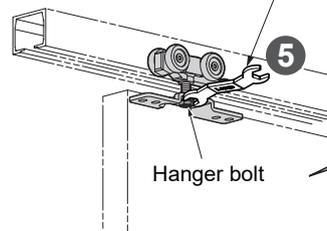
Temporarily fasten through the slotted holes with the provided screws.



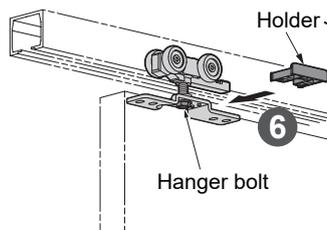
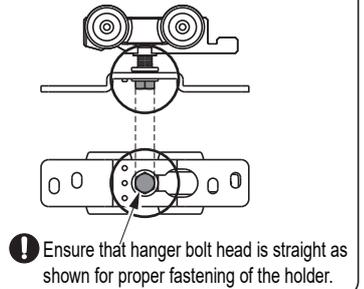
## 10 Hanging Door



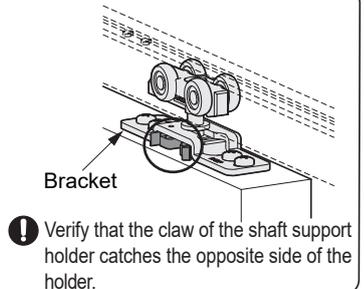
9 Spanner wrench  
Nominal designation 10 mm,  
max. 6 mm thickness



### ⚠ Caution



### ⚠ Caution

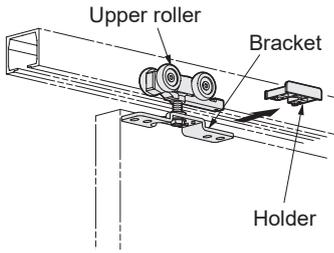


## 7 Verification of Soft Closer Operation

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

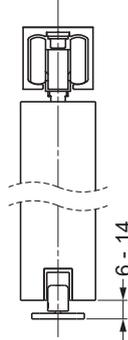
## 11 Adjusting the Door Position

1 Pull out the holder



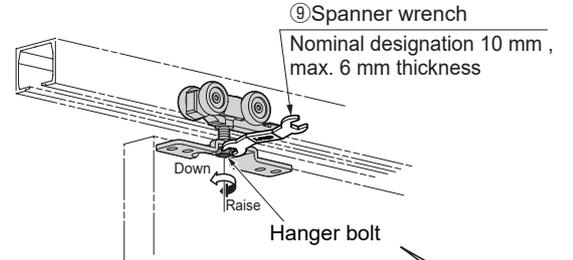
2 Adjust door such that door is parallel to upper track with 6-14 mm clearance between door and floor.

Vertical adjustment range: 8 mm

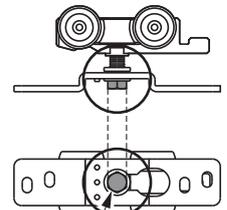


**Caution**

Do not turn adjustment screw beyond adjustment range.

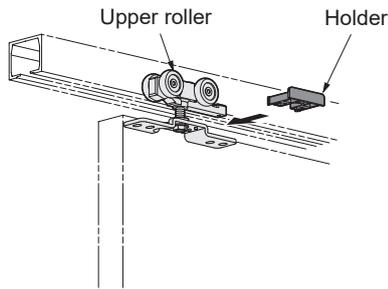


**Caution**

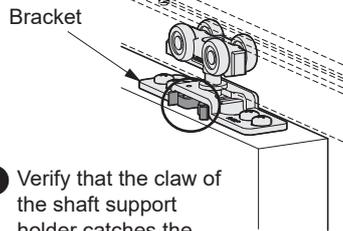


Ensure that hanger bolt head is straight as shown for proper fastening of the holder.

3 Insert the holder



**Caution**

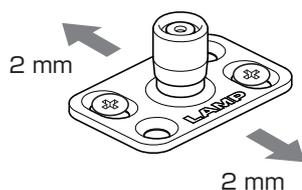


Verify that the claw of the shaft support holder catches the opposite side of the holder.

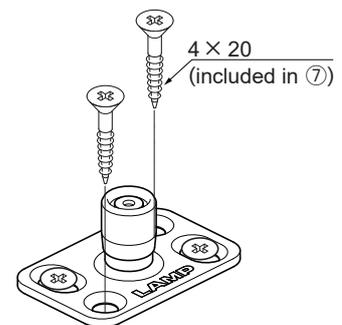
## 12 Adjusting, Fastening Floor Guide

If the door movement is not smooth, remove the door, then make a forward/backward adjustment on floor guide.

Adjustment range:  $\pm 2$  mm



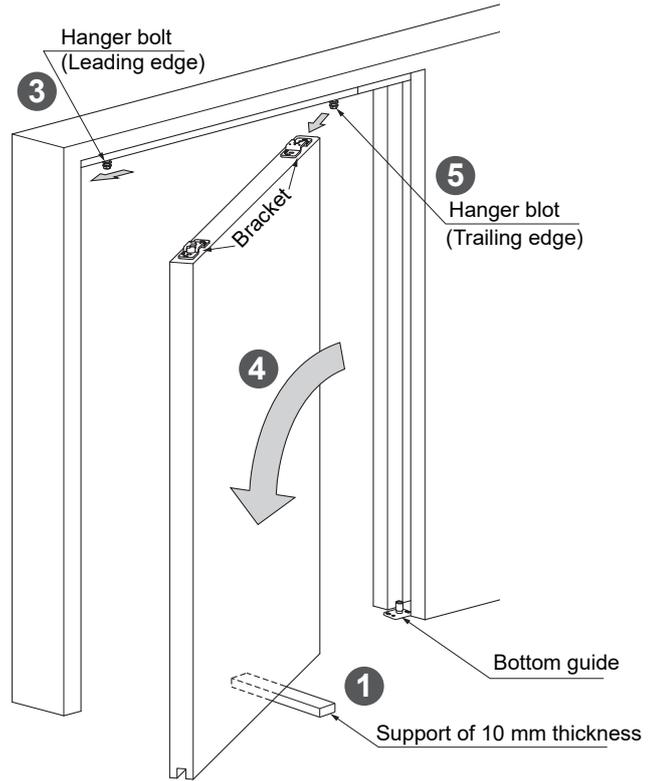
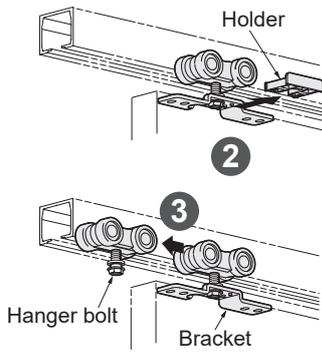
Tighten all 4 screws after the adjustment.



# Appendix 1 How to Remove Door, Track

## [1] How to remove door

- 1 Put a 10 mm support under the door on the leading edge.
- 2 Remove holder
- 3 Pull out the Hanger bolt at leading edge from the Bracket.
- 4 Pull out the door, while making sure not to let it scratch against the door pocket.
- 5 Pull out the Hanger bolt on the trailing edge from the bracket then pull out the door from the hanger bolt.



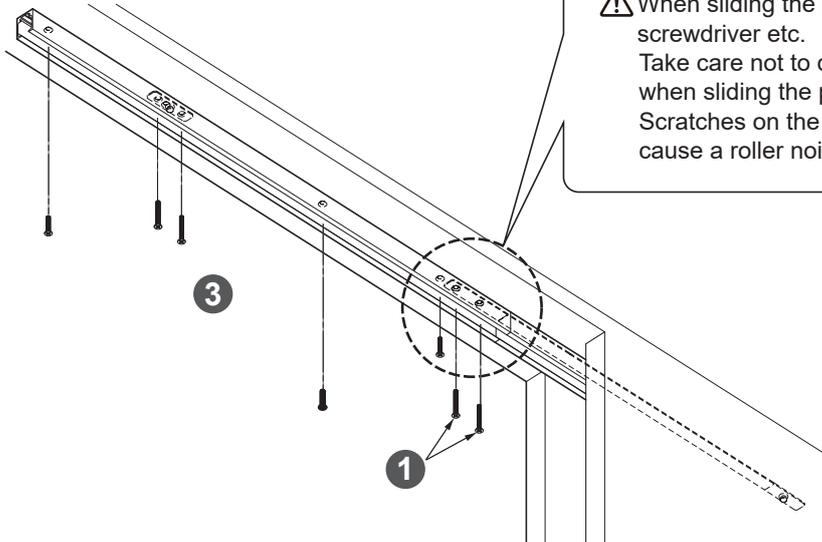
**Caution**  
Be careful not to let the door fall.

## [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.

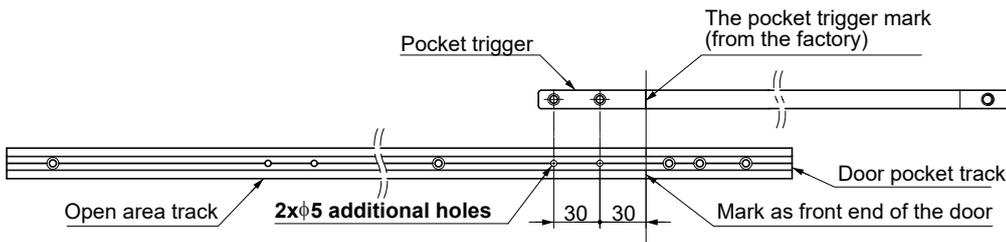
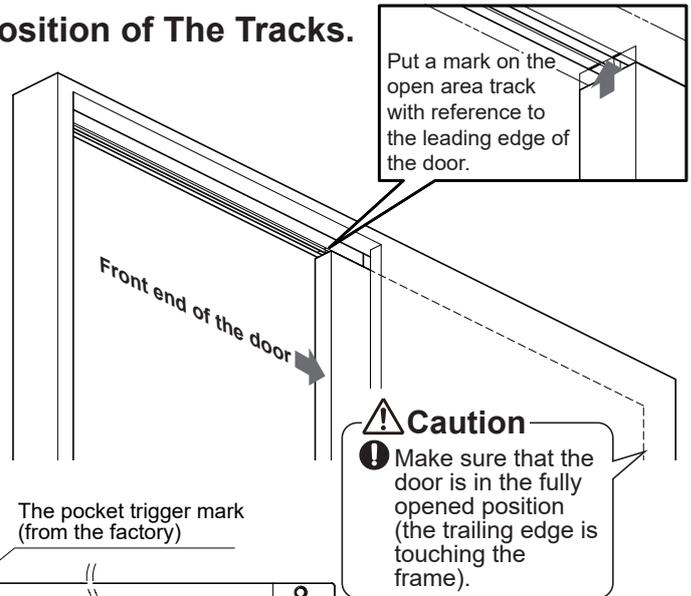


**Caution**  
When sliding the pocket trigger, use a screwdriver etc. Take care not to damage the track when sliding the pocket trigger. Scratches on the running track may cause a roller noise during operation.

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

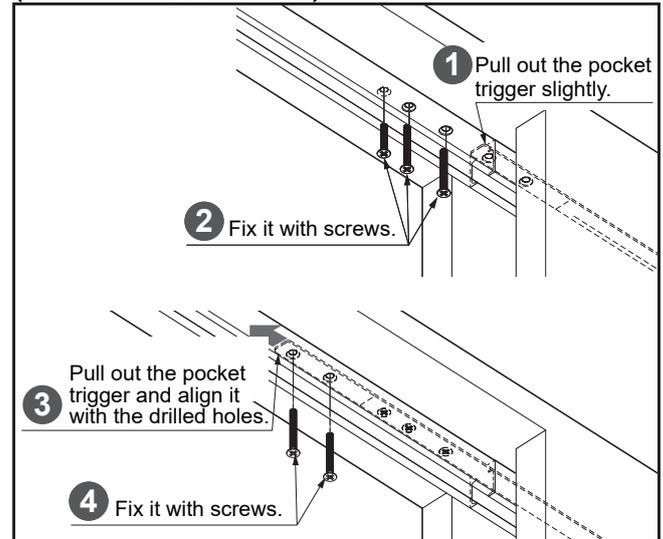
### [1] When determining the trigger position on site

- (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.
- (3) Drill additional holes for trigger on the open area track.  
(See the below drawing)



- (3) Mounting Open area track  
Follow the figure to the bottom right, since the working sequence is different from regular process.
- (4) Hanging the door  
Refer to the procedures **2** and following procedures on page 5.

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

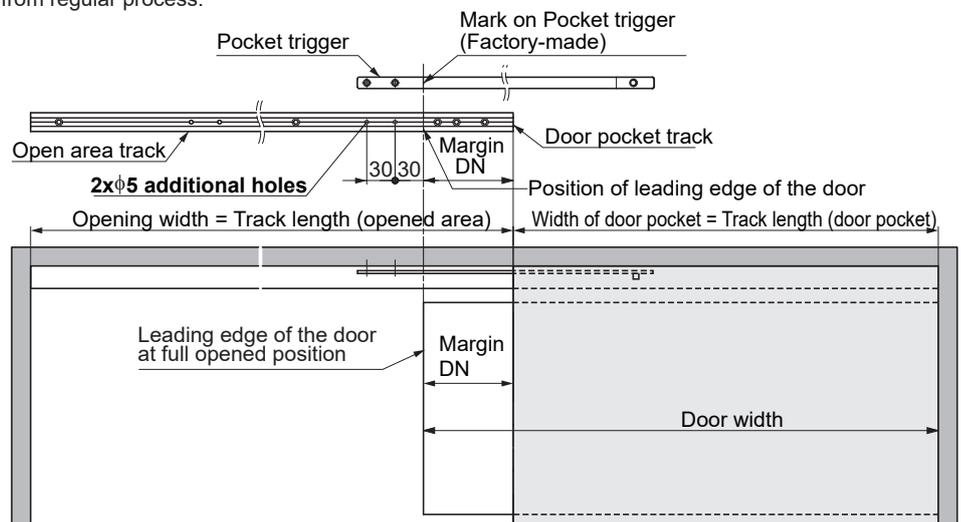


### [2] How to process the holes for Pocket trigger in advance

[Example]

Door pocket track with its length equal to the width of door pocket.

- (1) Drill holes for Pocket trigger according to drawing below.
- (2) Fix Open area track, while following the right above figure, since the working sequence is different from 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 - 14 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 6 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 - 14 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 - 14 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.   |

**SUGATSUNE KOGYO CO.,LTD**

Tokyo, JAPAN

Phone: +81 (0)3 3866 2260 E-mail:export@sugatsune.co.jp

**SUGATSUNE KOGYO (UK) LTD**

Reading, UK

Phone: +44 118 9272 955 E-mail:sales@sugatsune.co.uk

**SUGATSUNE EUROPE GmbH**

Düsseldorf, GERMANY

Phone: +49 211 53812900 E-mail:sales@sugatsune.eu

**SUGATSUNE SHANGHAI Co., LTD**

Shanghai, CHINA

Phone: +86 21 3632 1858 E-mail:lamp@sugatsune.com.cn

**Guangzhou, CHINA**

Phone: +86 20 6639 3552 E-mail:lamp@sugatsune.com.cn

**SUGATSUNE KOGYO INDIA PRIVATE LIMITED**

Mumbai, INDIA

Phone: +91 22 28314490/91 E-mail:sales@sugatsune.in

**SUGATSUNE AMERICA, INC**

California, USA

Phone: +1 310 329 6373 E-mail:sales@sugatsune.com

**Illinois, USA**

Phone: +1 630 317 7072 E-mail:sales@sugatsune.com

**SUGATSUNE CANADA, INC.**

Phone: +1 514 312 5267 E-mail:support@sugatsune.ca

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

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