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 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

- ● 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.

Door pocket

Door

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	
Height adjustable range	± 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 ℃ .
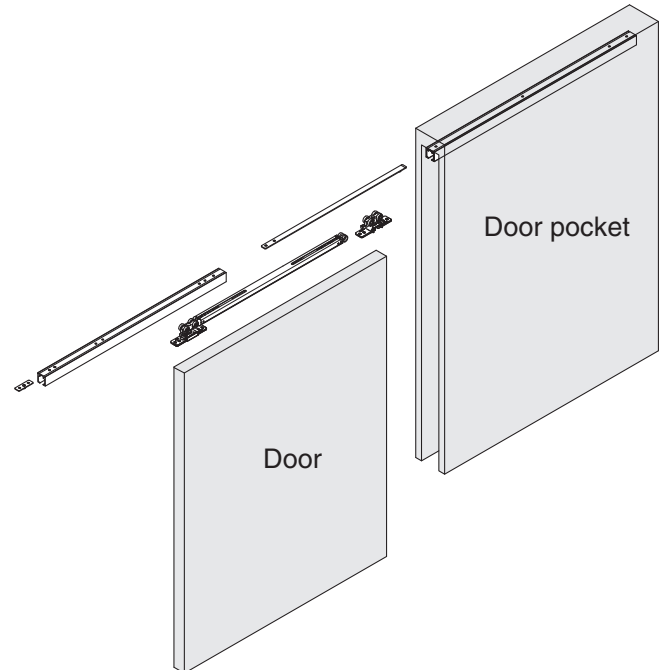
FOR YOUR SAFE WORK AND CORRECT INSTALLATION
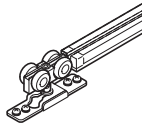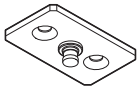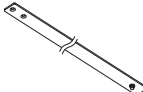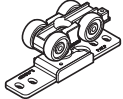
Meaning of symbols

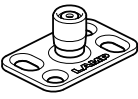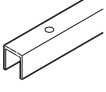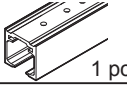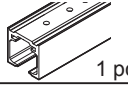| ⚠ **Warning Caution**	🚫 **Prohibited**	❗ **Required**

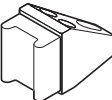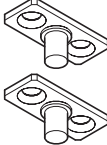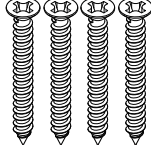⚠ **Warning : If not followed, it may result in death or serious injury.**

❗ 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	⑧
Name	Soft Closer	Front trigger	Pocket trigger	Upper roller	Floor guide	Door guide track	Open area track	Door pocket track
Order code	250-022-240	250-029-709	250-029-708	250-022-242	250-029-718	250-019-971	Available with various length and finishes	
Part No.	FD80-WRM-DSC	FD80-TRGPF	FD80-TRGPB-MB	FD80-WRM	FD50-BGR18	FD30-HBRT1500SIL	FD80-TRP	
Parts	1 pc	1 pc	1 pc	1 pc	1 pc	1 pc	The profile of ⑦ and ⑧ are the same, but the cut length and hole location are different. See installation procedure **1** for the detail.) 1 pc	1 pc
Accessories	Pan head tapping screws 4 x 45 4 pcs	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 × 20 4 pcs	Recommended screw : Countersunk head tapping screws 4 × 20	Countersunk head tapping screws 5 x 40 (Q'ty depends on the hole location)	

	No.	⑨	⑩	⑪	⑫
Options	Name	Cleaner for upper track	Spanner	Stopper block	Door stopper (floor)
	Part No.	FD50-TRC	FD30-FSP	FD80-HSB	FD80-HTK
	Parts		Nominal designation 10 mm, 12 mm		

✖ **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
(for φ11.4 countersunk hole)

・Machine or tool for cutting aluminum alloy

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

・Drill bit for metal: φ5

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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.
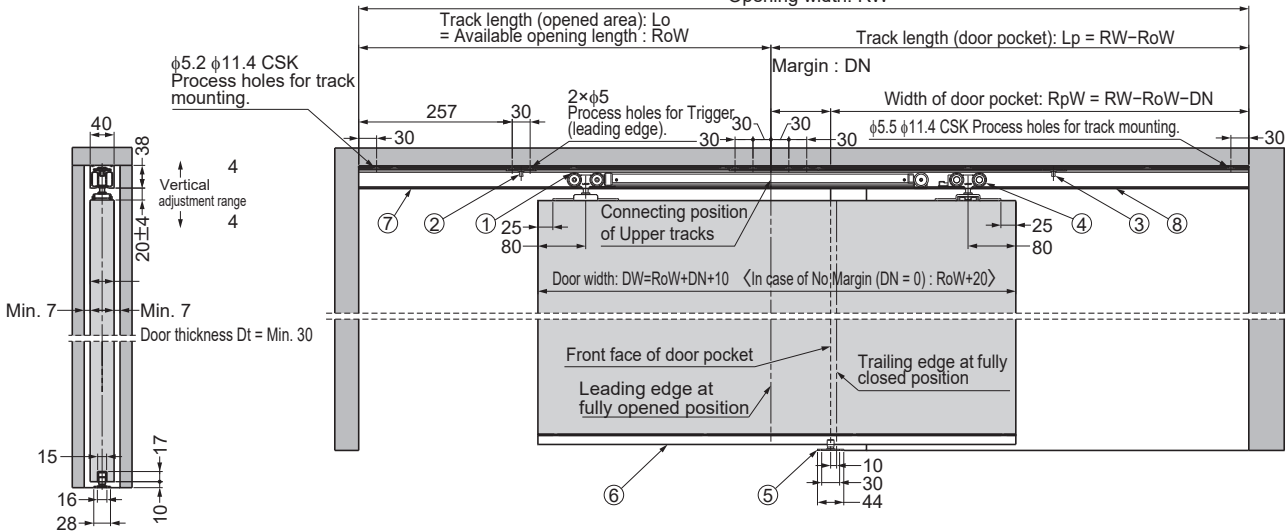
Door process dimension

Leading edge

Trailing edge

2 x C5 (Min.)

Door

17

15

Min. Opening width of door pocket = Door thickness : Dt + 14

In case of No Margin (DN = 0),the front part of the door pocket must be detachable for door hanging.

Overlap : 10
⟨In case of No Margin (DN = 0) : 20⟩

Closed position

Trigger of Leading edge side

Connecting position of Upper tracks

272

30

30

473

Trigger of Trailing edge side

Full opened position

【Recommended】
Door pocket track length (Lp) = Door width (DW)
(The end of door pocket stops the door.)

Opening width: RW

Track length (opened area): Lo = Available opening length : RoW

Track length (door pocket): Lp = RW−RoW

ϕ5.2 ϕ11.4 CSK Process holes for track mounting.

Margin : DN

Width of door pocket: RpW = RW−RoW−DN

257

30

2×ϕ5 Process holes for Trigger (leading edge).

30

30

30

30

ϕ5.5 ϕ11.4 CSK Process holes for track mounting.

30

30

40

38

4

Vertical adjustment range

20±4

4

⑦ ② ① 25

80

Connecting position of Upper tracks

25

80

④ ③ ⑧

Door width: DW=RoW+DN+10 ⟨In case of No Margin (DN = 0) : RoW+20⟩

Min. 7

Min. 7

Door thickness Dt = Min. 30

Front face of door pocket

Leading edge at fully opened position

Trailing edge at fully closed position

15

17

16

10

28

⑥

⑤

10

30

44

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

Track length (opened area): Lo

Available opening length : RoW

Track length (door pocket): Lp = RW−RoW

Width of door pocket: RpW = RW−RoW−DN

DW−52

Margin : DN

Connecting position of Upper tracks

⑪

Door width: DW=RoW+DN+10 ⟨In case of No Margin (DN = 0) : RoW+20⟩

⑪⑫ are needed when the door does not reach the end of the door pocket.

Front face of door pocket

Leading edge at fully opened position

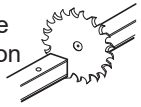Trailing edge at fully closed position

DW−DN

⑫

INSTALLATION PROCEDURE

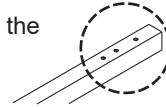## 1 Cutting Track and Hole Drilling on Upper Track

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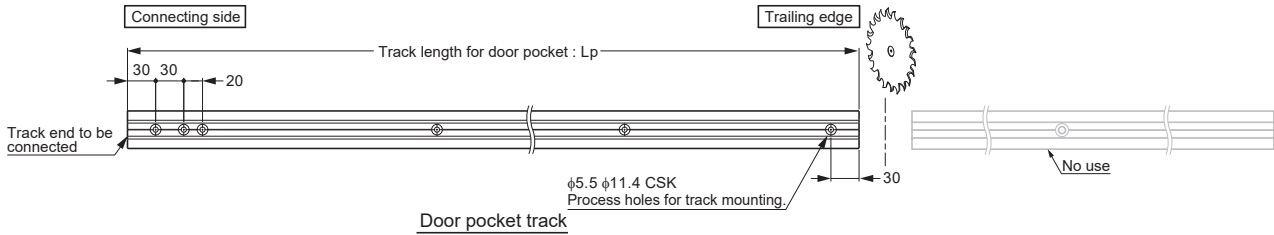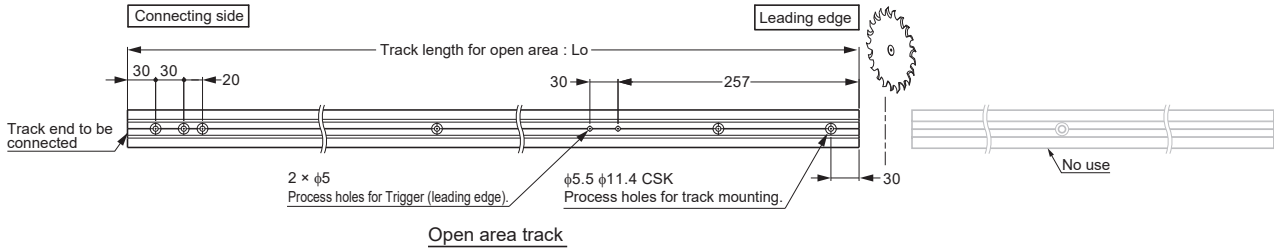🔴 When cutting, reinforce the track to prevent deformation at the cut section.

⚠ **Caution**
🚫 Do not cut the track on the side with three holes.
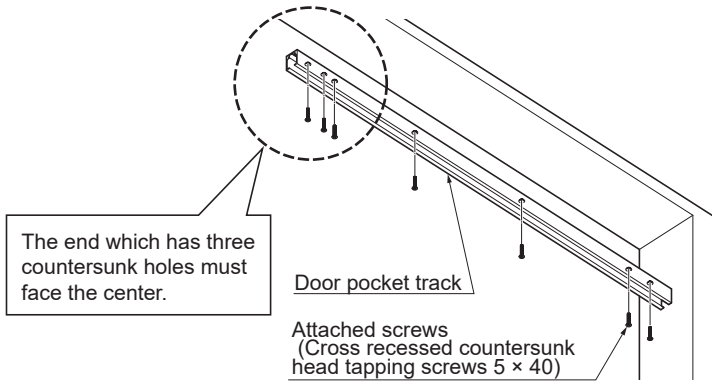
When using 1260 mm track

Connecting side | Leading edge

Track length for open area : Lo

30　30　20　　　　　　30　　257

Track end to be connected

2 × ⌀5
Process holes for Trigger (leading edge).

⌀5.5 ⌀11.4 CSK
Process holes for track mounting.

30

No use

Open area track

Connecting side | Trailing edge

Track length for door pocket : Lp

30　30　20

Track end to be connected

⌀5.5 ⌀11.4 CSK
Process holes for track mounting.

30

No use

Door pocket track

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

Connecting side | Leading edge

Track open area : Lo

30　30　20　　　　30　　257

Track end to be connected

2 × ⌀5
Process holes for Trigger (leading edge).

⌀5.5 ⌀11.4 CSK
Process holes for track mounting.

30

No use

Open area track

Trailing edge | Connecting side

Track length for door pocket : Lp

20　30　30

30

⌀5.5 ⌀11.4 CSK
Process holes for track mounting.

Track end to be connected

Door pocket Track

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2 Installing Door Pocket Track

The end which has three countersunk holes must face the center.

Door pocket track

Attached screws
(Cross recessed countersunk head tapping screws 5 × 40)
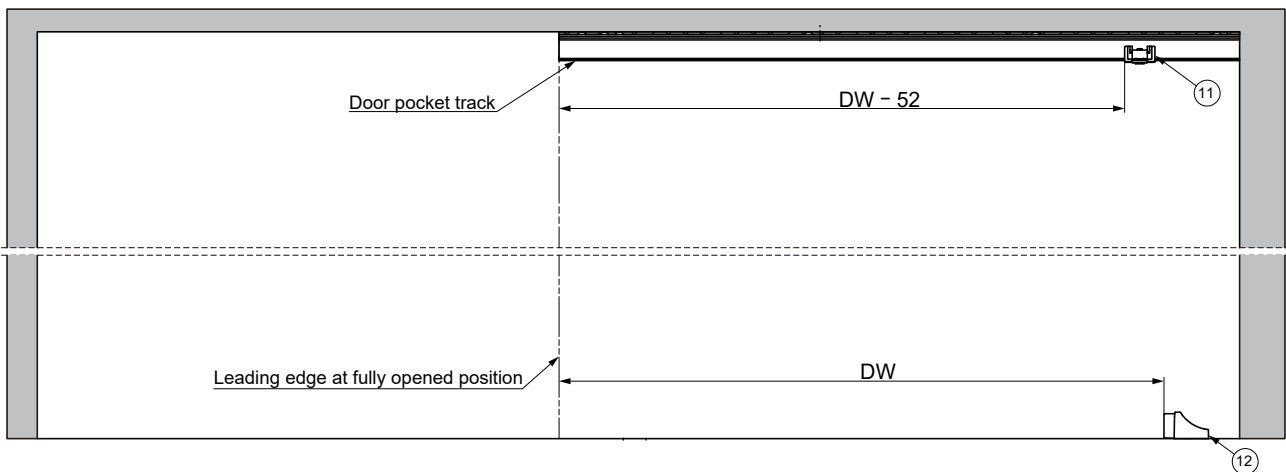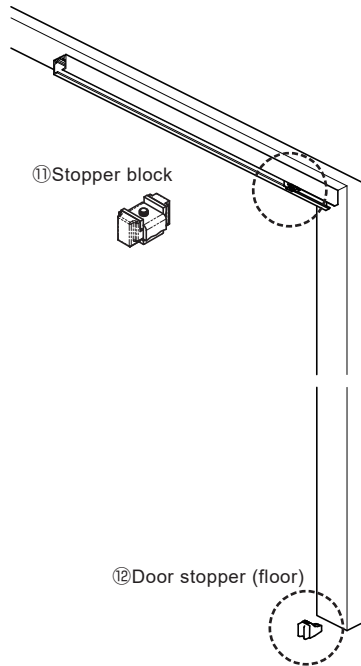
⚠ Caution

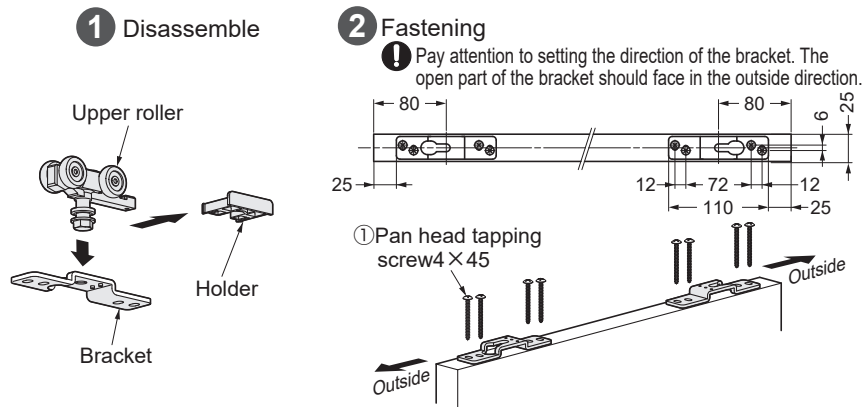❗ Remove any dirt or aluminum chips from the track

⚠ Caution

❗ Install the cover panel onto the door pocket after mounting the track.
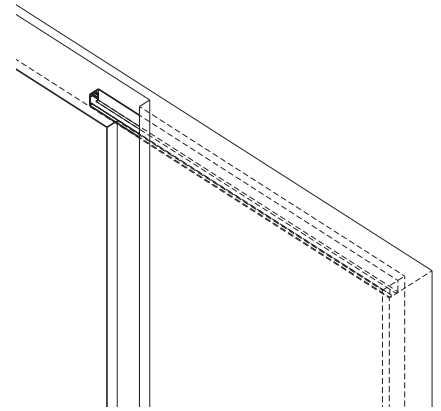
When the door pocket track is longer than the door width. (Lp > DW)

⑪Stopper block

⑫Door stopper (floor)

Door pocket track

DW − 52

⑪

Leading edge at fully opened position

DW

⑫

3 Installing Bracket

❶ Disassemble

Upper roller

Holder

Bracket

❷ Fastening

❗ Pay attention to setting the direction of the bracket. The open part of the bracket should face in the outside direction.

80   80   25
6
25   12 → 72 → 12
110   25

①Pan head tapping screw4×45

Outside

Outside

4 Installation of Door Guide Track

(1) Cut the track to the same length as the door width.

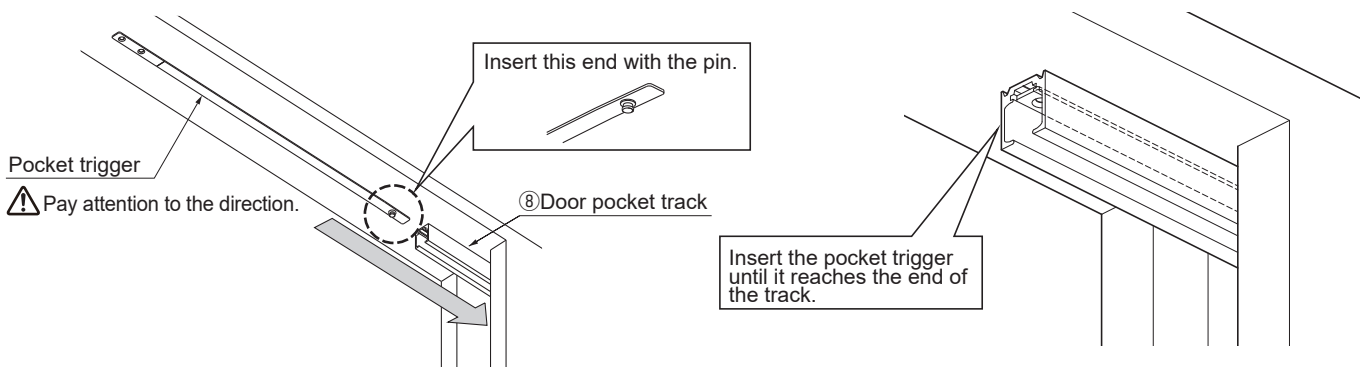⚠ **Caution**

❗ When cutting, reinforce the track to prevent deformation at the cut section.
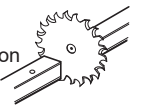
(2) Fasten the track with countersunk head tapping screws 4x20 (not provided).

⑥Door guide track

Countersunk head tapping screws 4x20 (not provided)
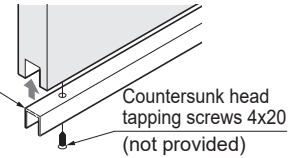
5 Installing Pocket Trigger

Pocket trigger

⚠ Pay attention to the direction.

Insert this end with the pin.

⑧Door pocket track

Insert the pocket trigger until it reaches the end of the track.

6 Verification Before Installing Soft Closer

⚠ **Caution**

⚠ Without verification the self closing feature may fail.

Trigger catcher (Red colored Part)

OK

Correct set position   Correct set position

✕

Improper set position

φ6
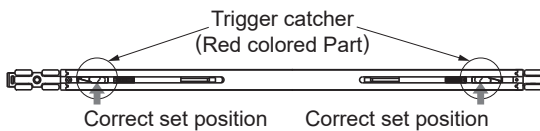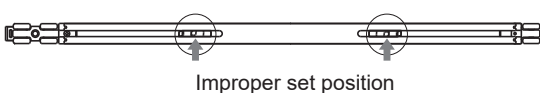
If the trigger position is wrong, pull back the trigger catcher to the correct position using a 6 mm diameter round bar.
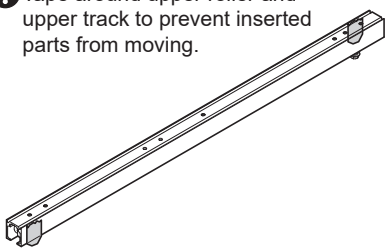
7 Inserting Parts into Open Area Track.

Insert the parts in order from ❶ to ❸.
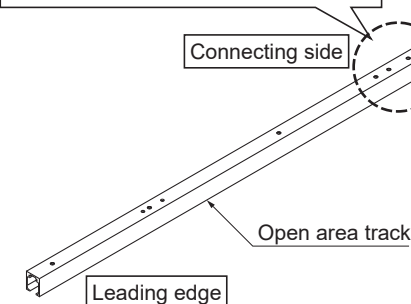You can insert the parts smoothly from the connecting end which has no burrs.

⚠ **Caution**

❗ Remove any dirt or aluminum chips from the track.

⚠ **Caution**

❗ Tape around upper roller and upper track to prevent inserted parts from moving.

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

Connecting side

Open area track

Leading edge

Upper roller

Soft Closer

⚠ Pay attention to the direction.

❸

❷

Front trigger

❶

Slot for Trigger

Slot for soft closer/roller
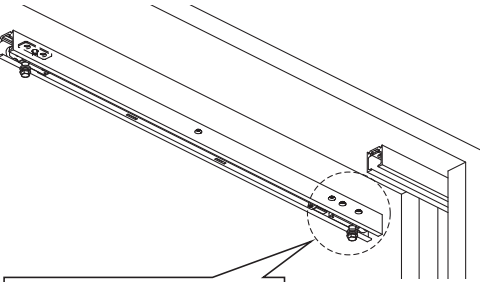
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8 Mounting Open Area Track.

【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.
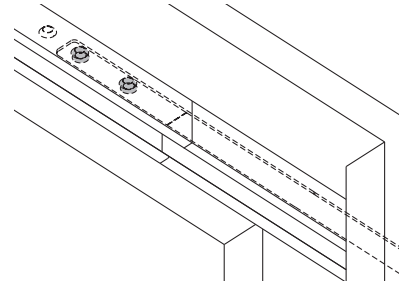
⚠ **Caution**
❗ Remove any dirt or aluminum chips from the track.

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

⚠ **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.
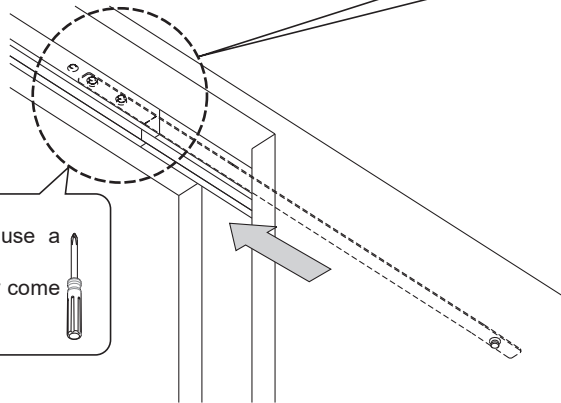
【2】 Fastening trigger and track

Fasten the Open area track and Pocket trigger with provided screws in order of ❶ to ❺.
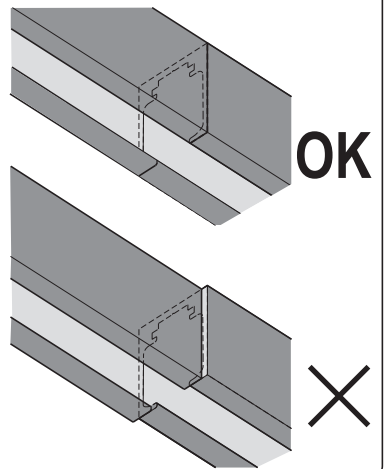Move rollers if they cover the fastening holes on the track.
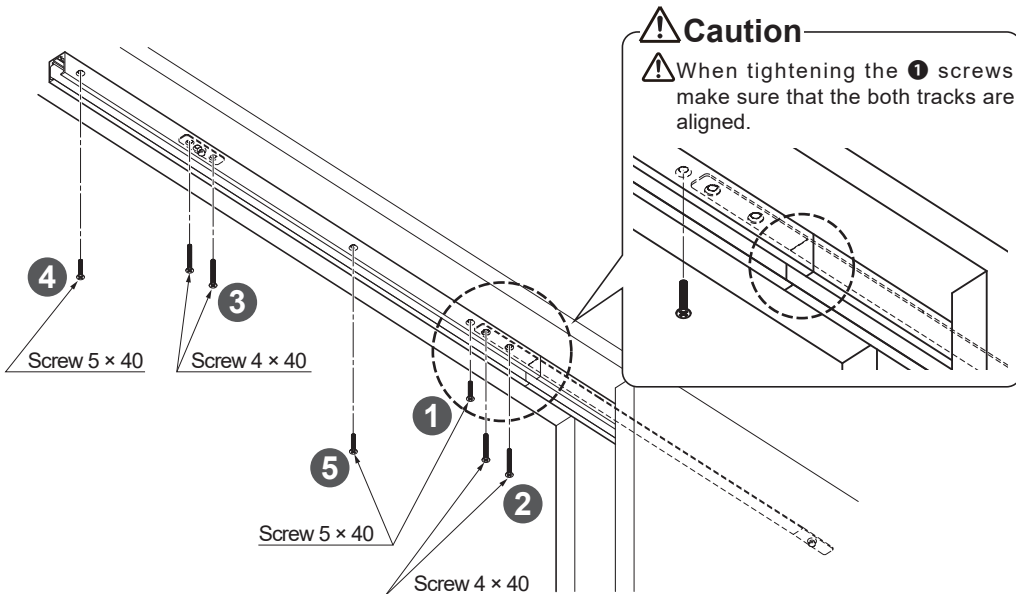
⚠ **Caution**
⚠ When tightening the ❶ screws make sure that the both tracks are aligned.

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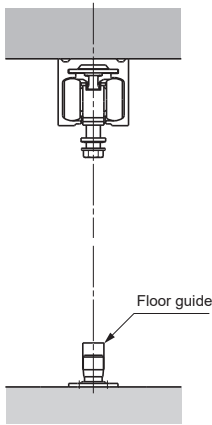❗ Be careful not to misalign the tracks. Tighten the screws firmly.

OK

✕

❹ Screw 5 × 40
❸ Screw 4 × 40
❶
❺ Screw 5 × 40
❷ Screw 4 × 40

⚠ **Caution**
❗ After fixing the track, move rollers and check if there's any misalignment or gap between the tracks.
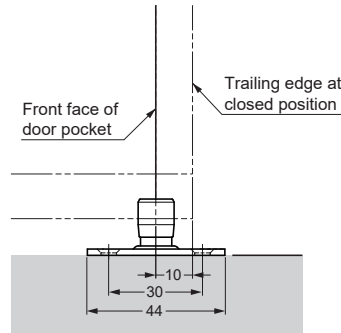
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7

9 Mounting Floor Guide Temporarily

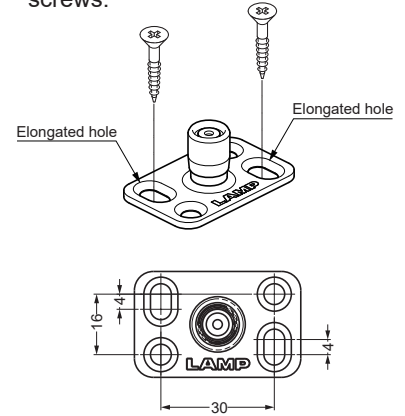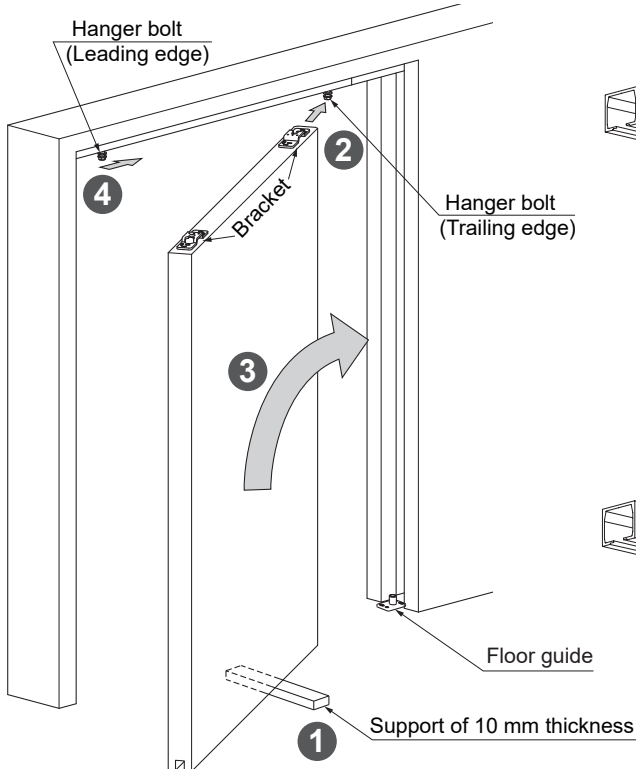Position floor guide just below the center of upper track.

Floor guide

⚠ Caution

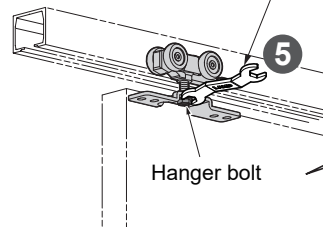The position of the model where the margin occurs is shown in the figure.

Front face of door pocket

Trailing edge at closed position

10
30
44

Temporarily fasten through the slotted holes with the provided screws.

Elongated hole

Elongated hole

16
4
4
4
30

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10 Hanging Door

Hanger bolt (Leading edge)

④

Bracket

②

Hanger bolt (Trailing edge)

③

Floor guide
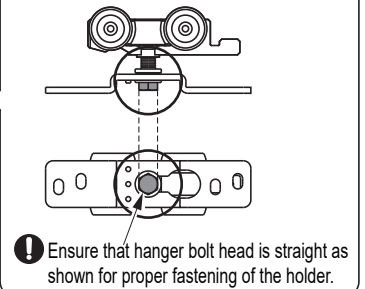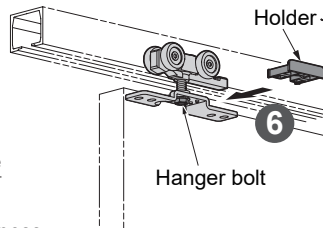
① Support of 10 mm thickness

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

⑤

Hanger bolt

⚠ Caution

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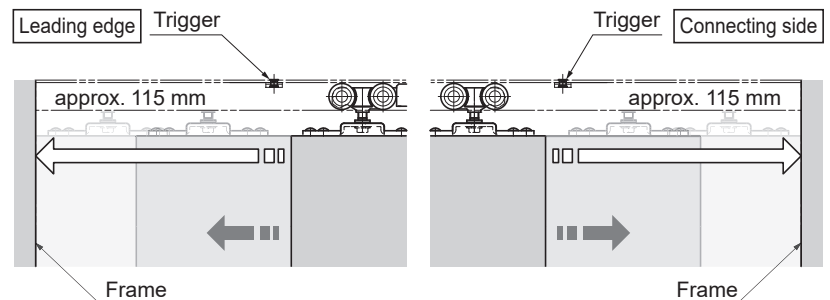
Holder

⑥

Hanger bolt

⚠ Caution

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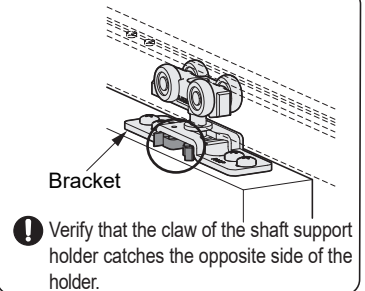
❗ Verify that the claw of the shaft support holder catches the opposite side of the holder.

11 Verification of Soft Closer Operation

(1) Remove the 10 mm support from under the door.

(2) Close the door slowly and check that the soft closer works correctly. The soft closer is engaged approximately 115 mm at the leading edge before the door reaches its final position.

(3) Carry out similar verification for the door trailing edge.

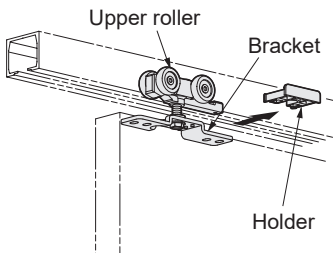(4) Please refer to the "Troubleshooting" section when the soft closer does not work correctly.

⚠ Caution

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

Leading edge   Trigger

approx. 115 mm

Frame

Trigger   Connecting side

approx. 115 mm

Frame

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12 Adjusting The Door Position
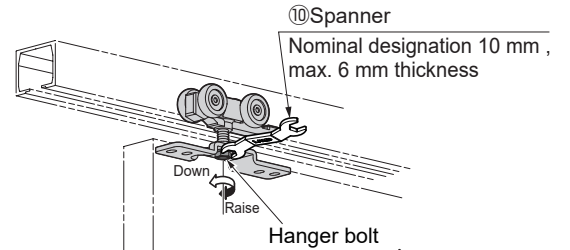
1 Pull out the holder

Upper roller
Bracket
Holder

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

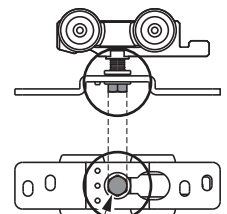**Vertical adjustment range: 8 mm**

6 - 14
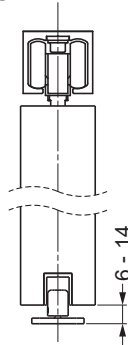
⚠ **Caution**
🚫 Do not turn adjustment screw beyond adjustment range.

⑩Spanner
Nominal designation 10 mm , max. 6 mm thickness
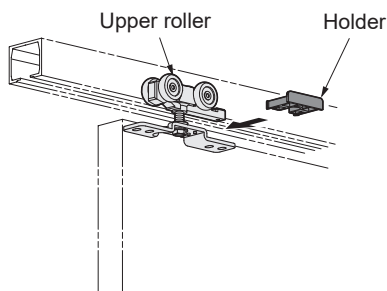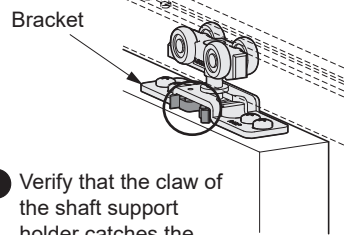
Down
Raise
Hanger bolt

⚠ **Caution**

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

3 Insert the holder

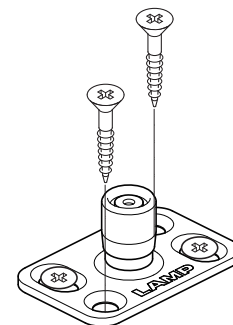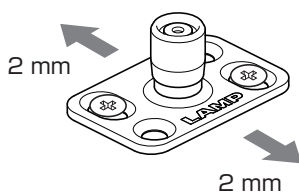Upper roller   Holder

⚠ **Caution**

Bracket

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

13 Adjusting Floor Guide (Adjust Range：4 mm)

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

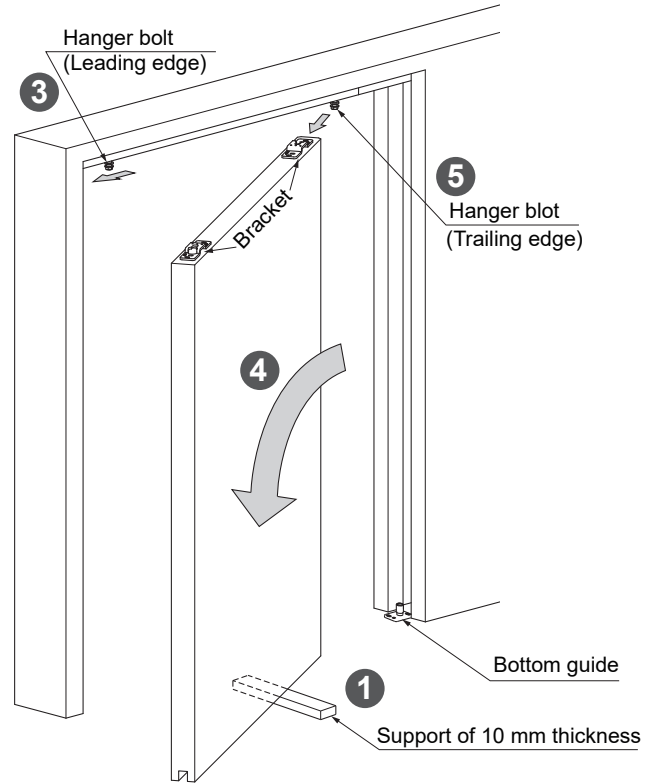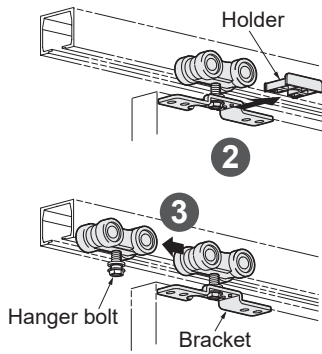Tighten all 4 screws after the adjustment.

Adjustment range: 4 mm

2 mm

2 mm

Appendix 1 How to Remove Door, Track

【1】 How to remove door

❶ Put a 10 mm support under the door.
❷ Remove holder
❸ Pull out the Hanger bolt at leading edge from the Bracket.
❹ Pull out the door, while making sure not to let it scratch against the door pocket.
❺ Pull out the Hanger bolt at trailing edge from the bracket.

Holder

2

Hanger bolt

3

Bracket

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

Hanger bolt
(Leading edge)

3

Bracket

5

Hanger blot
(Trailing edge)

4

Bottom guide

1

Support of 10 mm thickness

【2】 How to remove Upper track

❶ Remove the pocket trigger screws.
❷ Slide the Pocket trigger into the Door pocket track.
❸ Remove the Open area-track.

⚠ Caution
⚠ The trigger can be deformed if the open area track is removed before the pocket trigger being moved into the pocket track.

Hold the Open area track when removing the last screw.
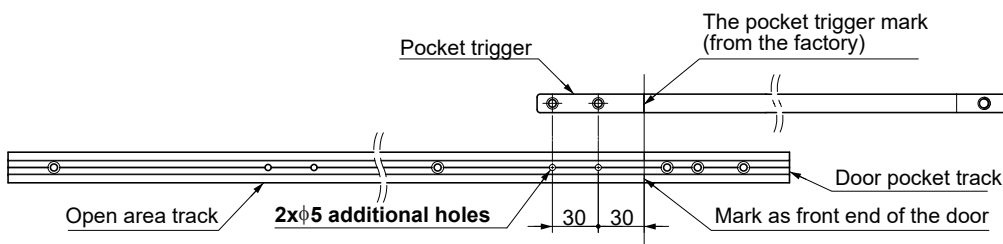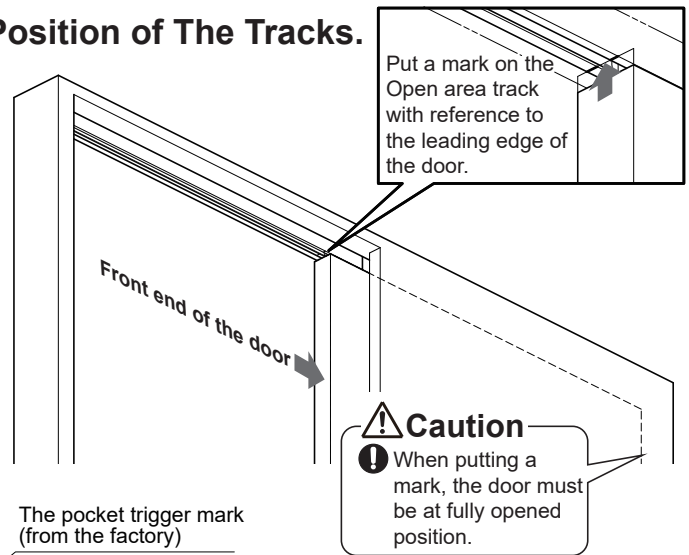
⚠ Caution

2
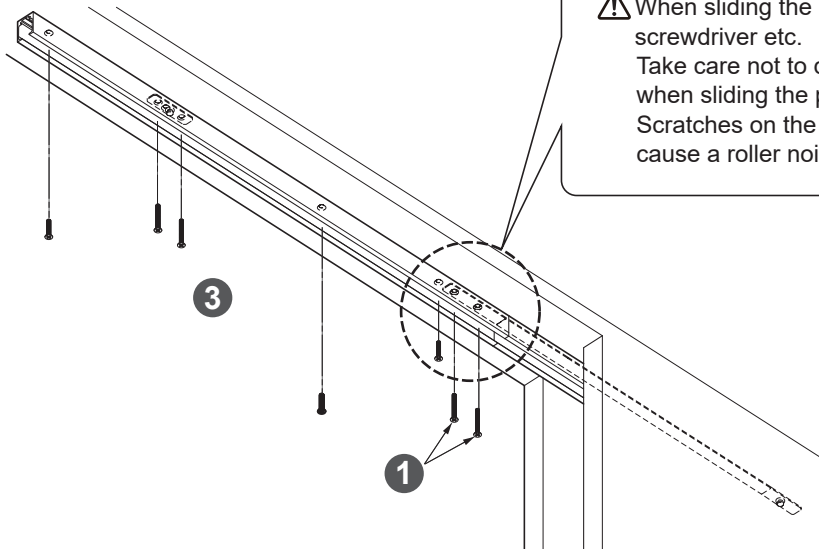
⚠ When sliding the pocket trigger, use a screwdriver etc.
Take care not to damage the track when sliding the pocket trigger. Scratches on the running track may cause a roller noise during operation.
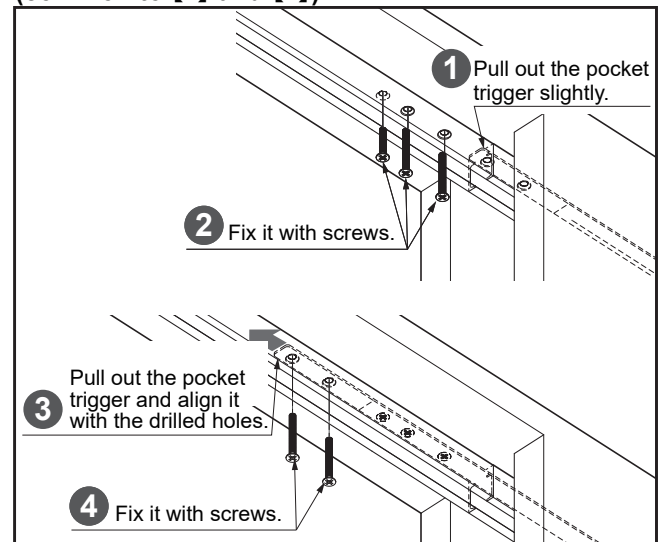
3

1

SUGATSUNE

【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.)

Put a mark on the Open area track with reference to the leading edge of the door.

(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)

Front end of the door

⚠ **Caution**
❗ When putting a mark, the door must be at fully opened position.

Pocket trigger
The pocket trigger mark (from the factory)
Door pocket track
Open area track
2xφ5 additional holes
30 | 30
Mark as front end of the door

(3) Mounting Open area track
Follow the right figure, 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】)

❶ Pull out the pocket trigger slightly.

❷ Fix it with screws.

❸ Pull out the pocket trigger and align it with the drilled holes.
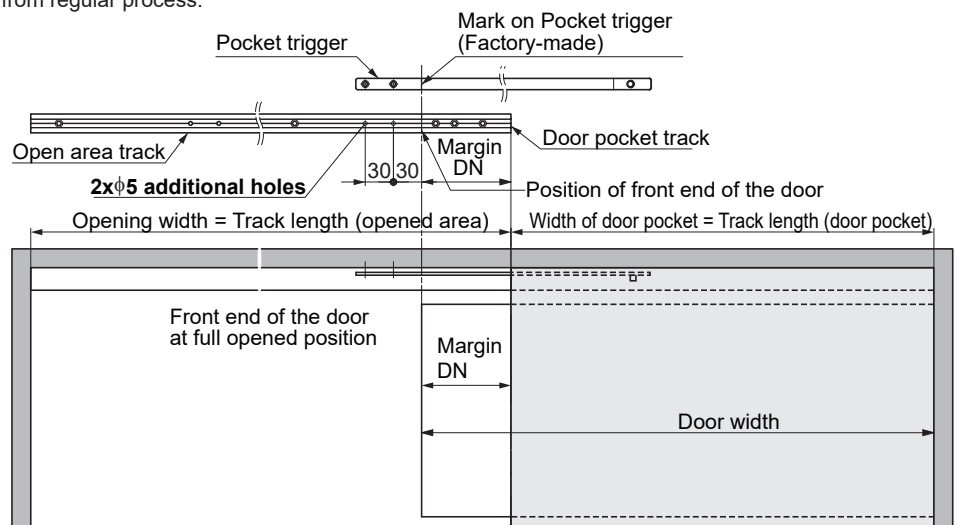
❹ Fix it with screws.

【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.

Mark on Pocket trigger (Factory-made)
Pocket trigger
Open area track
Door pocket track
2xφ5 additional holes
30 | 30
Margin DN
Position of front end of the door

Opening width = Track length (opened area) | Width of door pocket = Track length (door pocket)

Front end of the door at full opened position
Margin DN
Door width

| 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 mounting screws are not loosened. Then, adjust the door height such that the clearance between the door bottom and floor is 6 - 14 mm.
	Check if 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.
No soft closing	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 the trigger catcher in page 6 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 catcher in section 6 .
Abnormal noise during operation	Check if door bottom contacts the floor or floor guide.	Verify that the track mounting screws are not loosened. Then, adjust the door height such that the clearance between the door bottom and floor is 6 - 14 mm.
	Check if door touches adjacent parts.	Adjust 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 mounting screws are not loosened. Then, adjust the door height such that the clearance between the door bottom and floor is 6 - 14 mm.
	Check if door touches adjacent parts.	Adjust position of the floor guide.
Door does not move.	Check the track retaining screws for looseness.	Retighten the 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 is caught during operation.	Check if there is any gap or misalignment between the tracks.	Correct the misalignment or gap.