

Installation Manual

LAMP®

FDQ35 AUTO-CLOSING SLIDING DOOR SYSTEM

Pocket Door/Two-way Damper/Recessed Upper Roller Part No.FDQ35EVDHCMP-PD

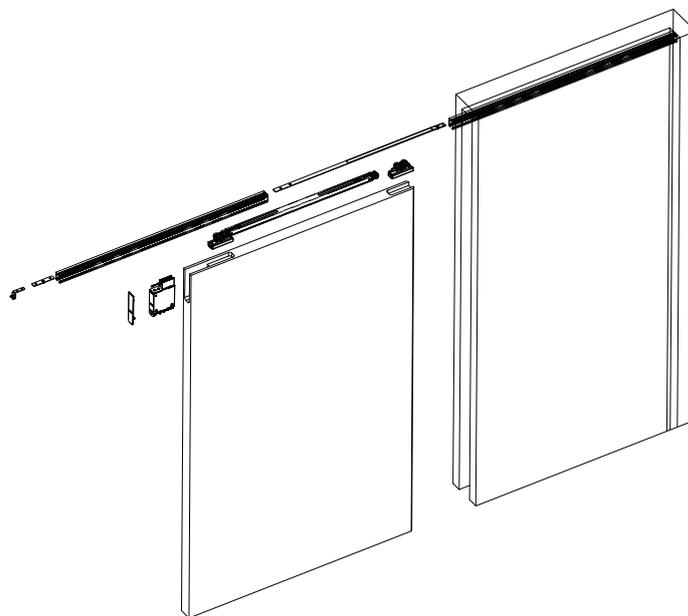
Thank you for using our product. Before installation, please read this manual thoroughly to ensure correct installation. Please keep this manual at hand for future reference.

Product Info



ABOUT THE PRODUCT

- This is a parts set for a sliding door system for residential & commercial use.
- The door automatically closes from any position it is manually opened to. When closing, the closer mechanism closes the door slowly and quietly.
- Two sections of track for easy maintenance after installing.
- The wire retraction design allows for use in regular frames and easy installation. The compact Upper Track requires less installation depth compared to standard automatic door closing units.



SPECIFICATIONS

Door height	Max. 2400 mm	2401 – 2700 mm
Door width	660 – 1200 mm	700 – 1200 mm
Min. Door thickness	30 mm	
Max. Door weight	35 kg ※ ¹	
Vertical adjustment	2 mm upward, 4 mm downward	

- The closing speed of door may change depending on the ambient temperature, operating method or installation quality.
- Recommended ambient temperature range is 5 to 40°C .

※¹ When using a light weight door, you may feel the resistance of the soft closer when opening the door. (Recommended at least 10kg)

FOR YOUR SAFETY AND CORRECT INSTALLATION



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.

WARNING: If not followed, death or serious injury 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).
- Install the product with two people (in the case of one person, there is a risk of damaging components).
- 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	⑦
Name	Upper Track (surface mounted)	Upper Track (recessed mounted)	Auto-Close Unit	Holder	Wire Bracket	Removal Tool	Soft Closer (two-way)	Upper Roller
Part No.	FD30-35EV-TRMP	FD30-35EV-TRHP	FDQ35				FD35EV-WRM-DSC	FD35EV-WRM
Parts								
Accessories	Countersunk head tapping screw 3.5 × 25 (Included for number of plate holes)		—	Countersunk head tapping screw 4 × 40 · · 2 pcs Low head countersunk head screw M4×10 : 1 pc	Bind head tapping screw 3.5 × 40 · · 2 pcs	—	Countersunk head tapping screw 4 × 40 · · · 3 pcs	Countersunk head tapping screw 4 × 40 · · · 3 pcs

No.	⑧	⑨	⑩	⑪	⑫	⑬
Name	Spanner Wrench	Front Trigger	Pocket Trigger	Embedded Lower Guide Rail	Floor Guide	Cover Cap
Part No.	FD35EV-WRM-SP8	FD35EV-TRGPF	FDQ35-TRGPB	FD30-HBRT	FD50-BGR18	FDQ35-CP
Parts						
Accessories/recommendations	—	Countersunk head tapping screw 4 × 30(D6)···2 pcs	Countersunk head tapping screw 4 × 30 (D6)···2 pcs	Recommended screw: Countersunk head tapping screw 4 × 20	Countersunk head tapping screw 4 × 20·····4 pcs	—

X Parts below are not needed for FD35SP pocket door application.

Trigger
Trigger mount jig

Countersunk head tapping screws 4X30 D6 : 4 pcs

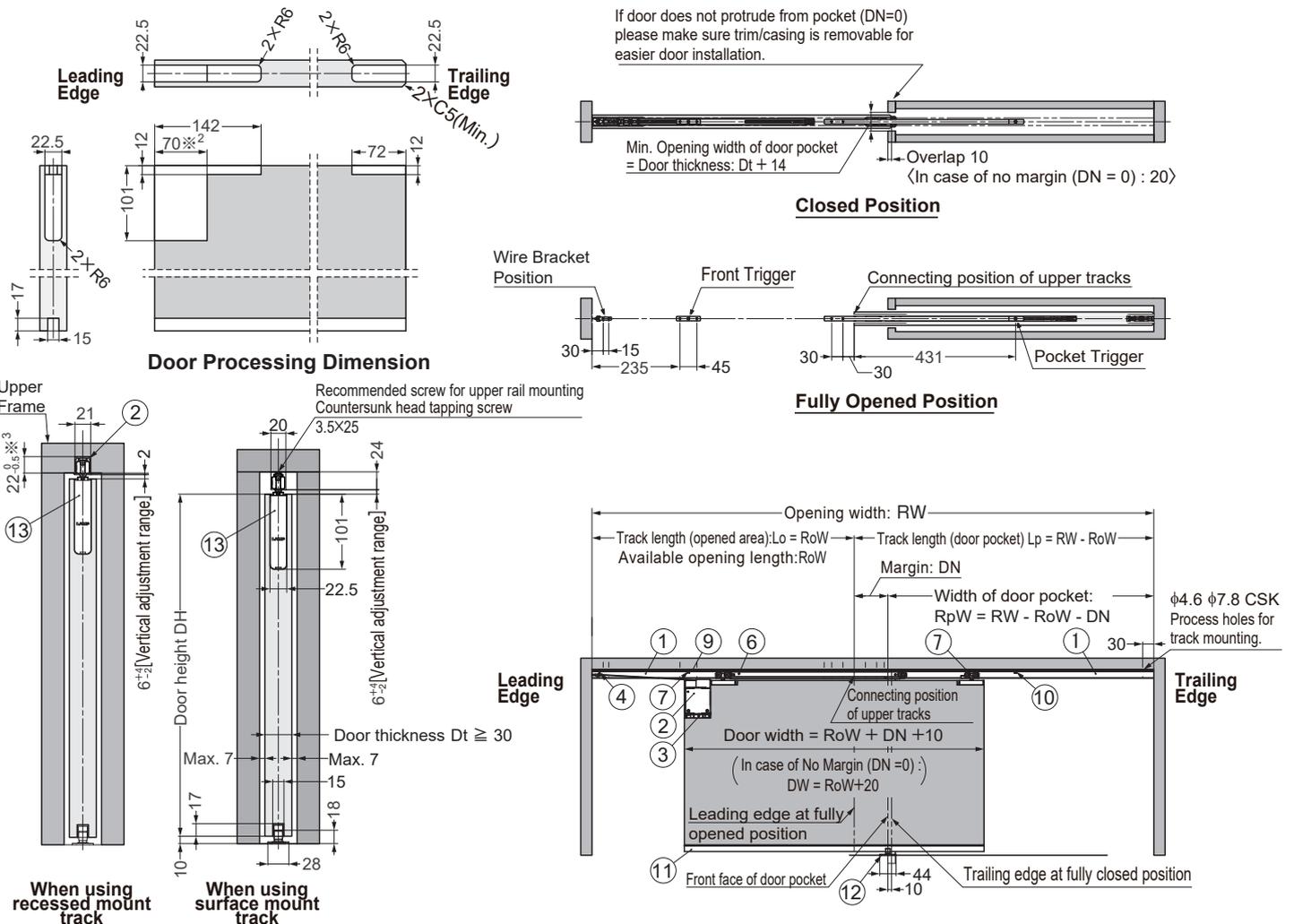
INSTALLATION DRAWING (EXAMPLE)

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 change the track connection Position from the example shown, please see page 11.

※² Dimensions include optional decorative cap.

※³ The groove depth 22 is for reference only.



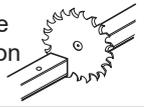
TOOLS REQUIRED FOR INSTALLATION

- Head Driver #2 
- Machine or tool for cutting aluminium alloy
- Drill bit for metal: $\phi 4.6$
- Drill bit for metal (for $\phi 7.8$ countersunk hole)
- Long philips Head Driver #2 

INSTALLATION PROCEDURE

1 Cutting Track and Hole Drilling on Upper Track

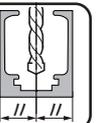
Caution
 When cutting, reinforce the track to prevent deformation at the cut section.



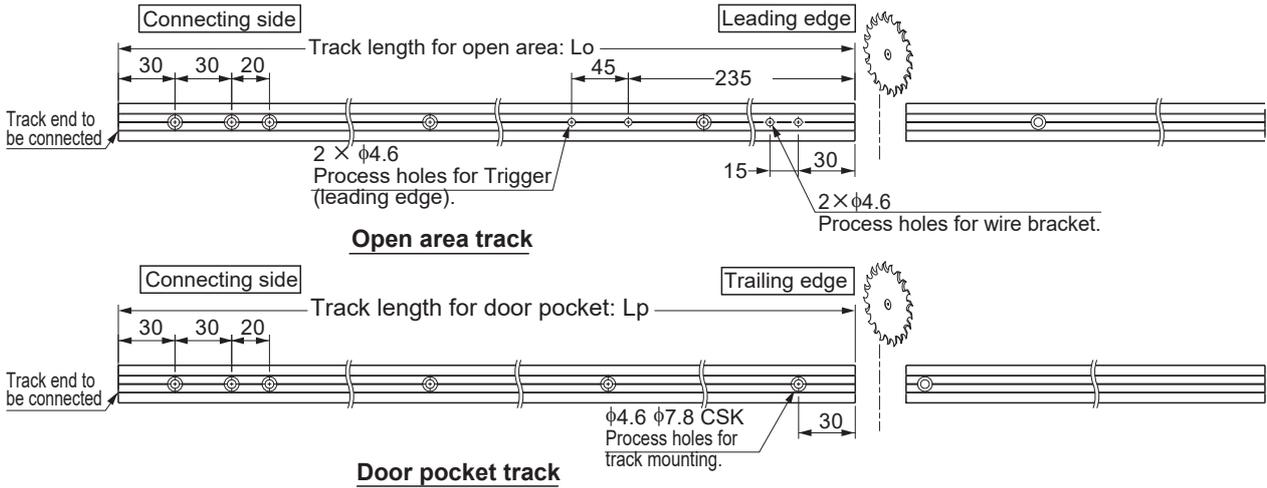
Caution
 Do not cut the track on the side with three holes.



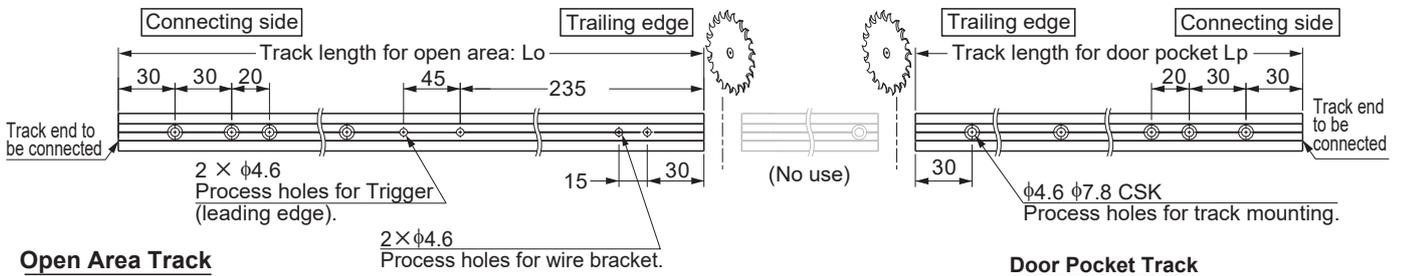
Caution
 Make sure to drill a hole in the direct center of the rail.



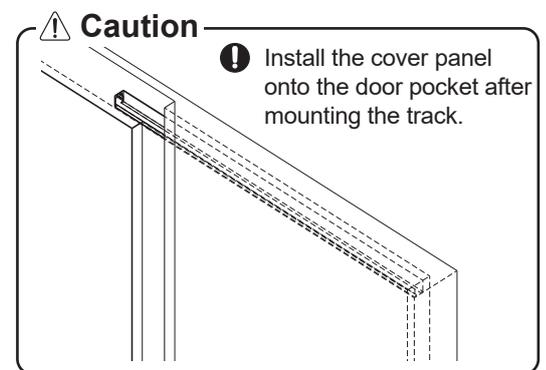
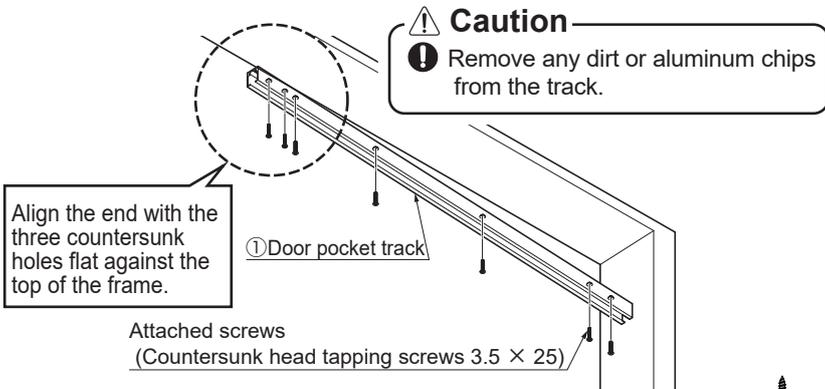
[1] When using 860 mm track and / or 1260 mm track (2 pcs)



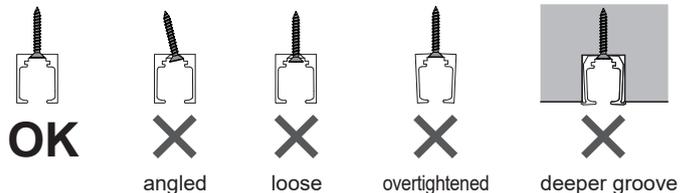
[2] When cutting from a long track (1860 mm, 2760 mm, 3960 mm)



2 Installing Door pocket track

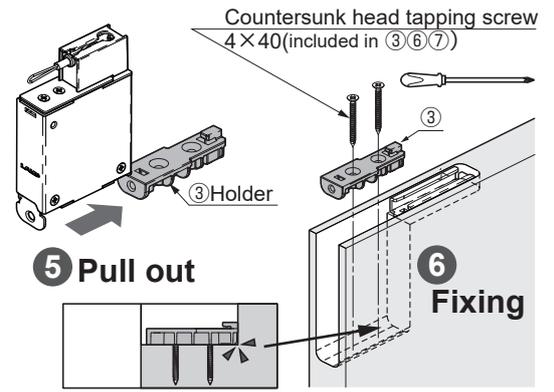
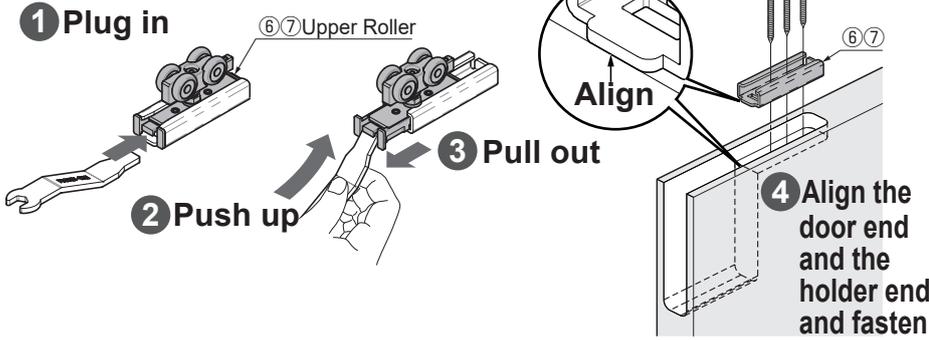


Caution
 Be careful not to overtighten the screws or leave the screw heads protruding on the upper track, as this can deform the track or damage the soft closer.

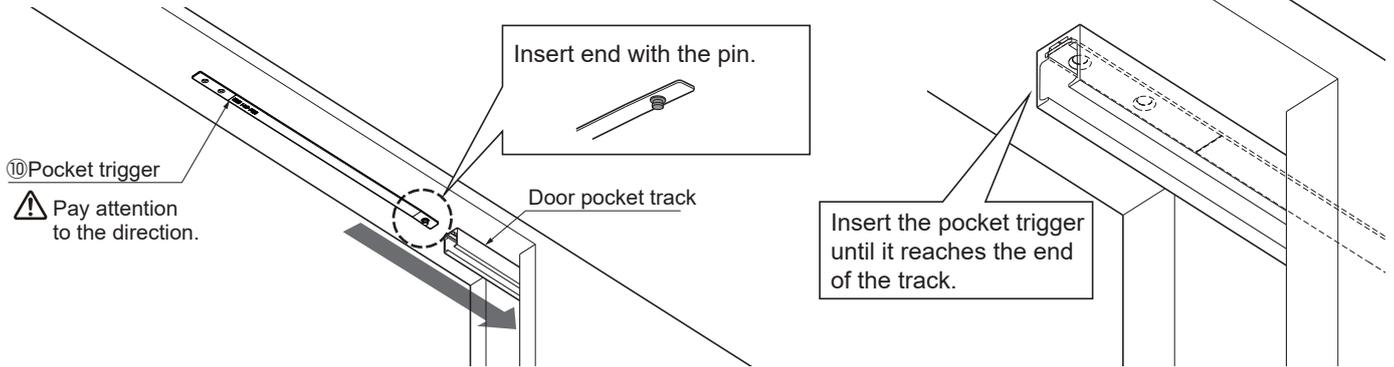


3 Mounting Parts on Door

Countersunk head tapping screw
4×40(included in ③⑥⑦)



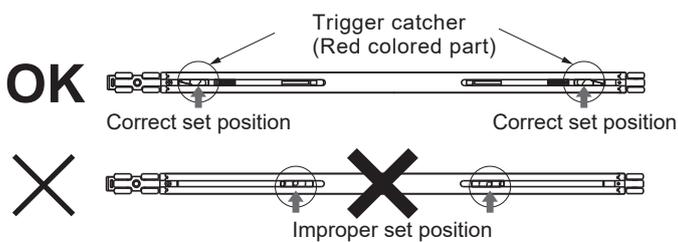
4 Installing Pocket Trigger



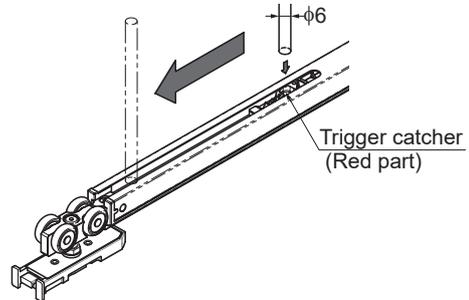
5 Verification Before Installing Soft Closer

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.



VIDEO LINK

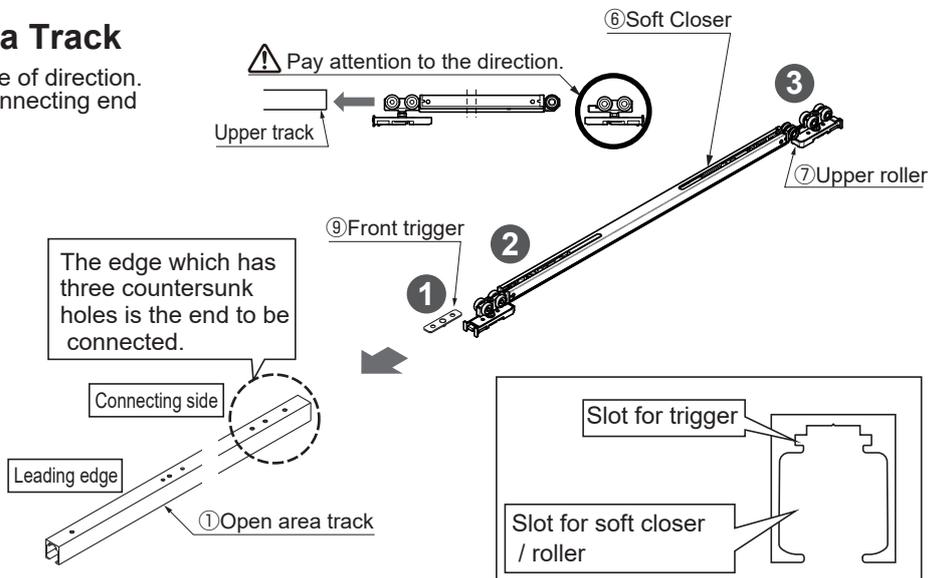
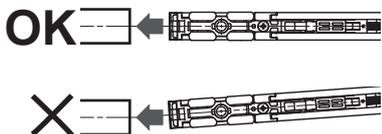


6 Inserting Parts into Open Area Track

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.
- Do not insert closer into the rail at an angle or it will not function properly.



7 Open Area Track Mounting

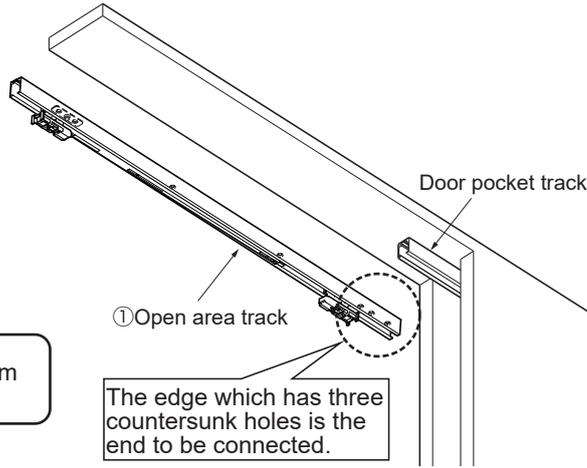
[1] Connecting to door pocket track.

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.

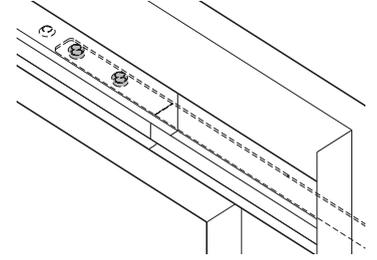
⚠ Caution

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



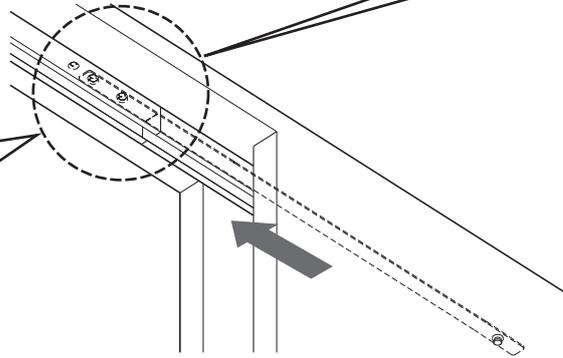
⚠ Caution

- ❗ 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

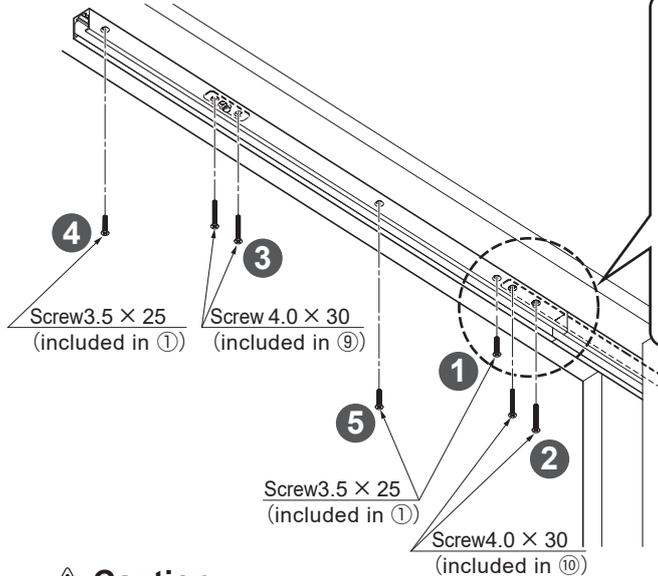
- ❗ When sliding the pocket trigger, use a screwdriver. The screwdriver may unexpectedly come out and damage the track. Scratches on the running track may cause a noise of rollers during operation.



[2] Fastening trigger and track

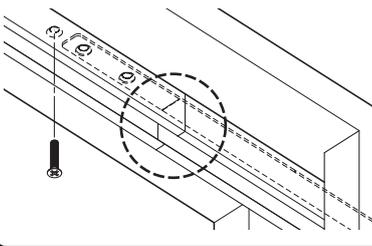
Fasten the open area track and pocket trigger with provided screws in order of ① to ⑤.

Move rollers if they cover the fastening holes on the track.



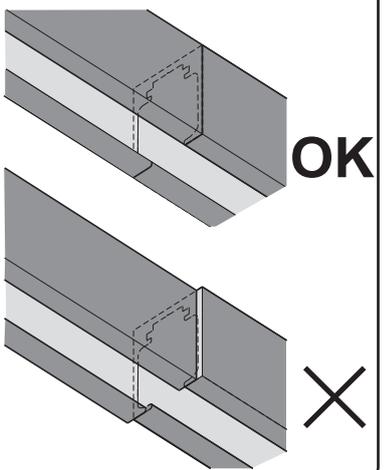
⚠ Caution

- ❗ 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.

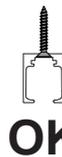


⚠ Caution

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

⚠ Caution

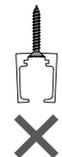
- ❗ Be careful not to overtighten the screws or leave the screw heads protruding on the upper track, as this can deform the track or damage the soft closer.



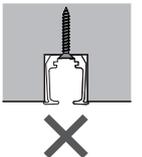
angled



loose



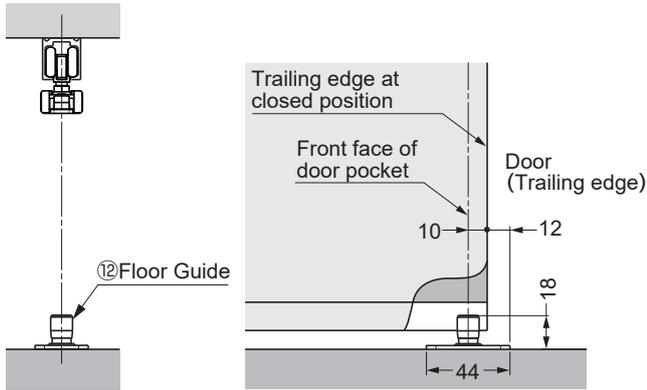
overtightened



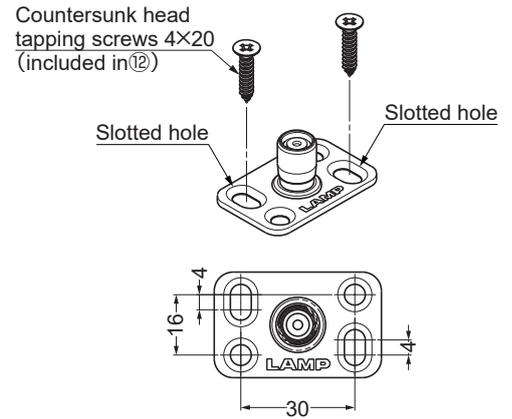
deeper groove

8 Mounting of Floor Guide(Temporary suspension)

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.



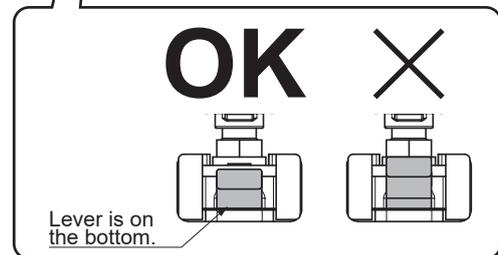
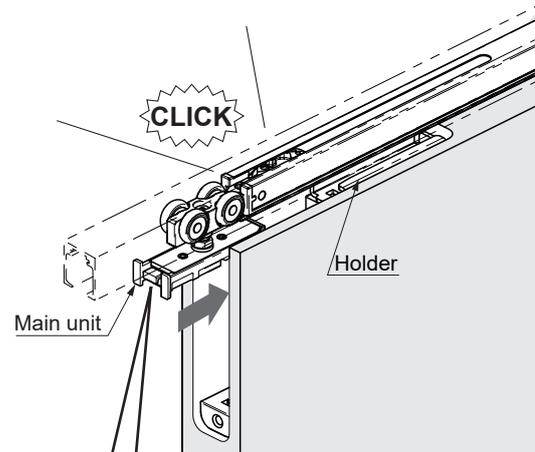
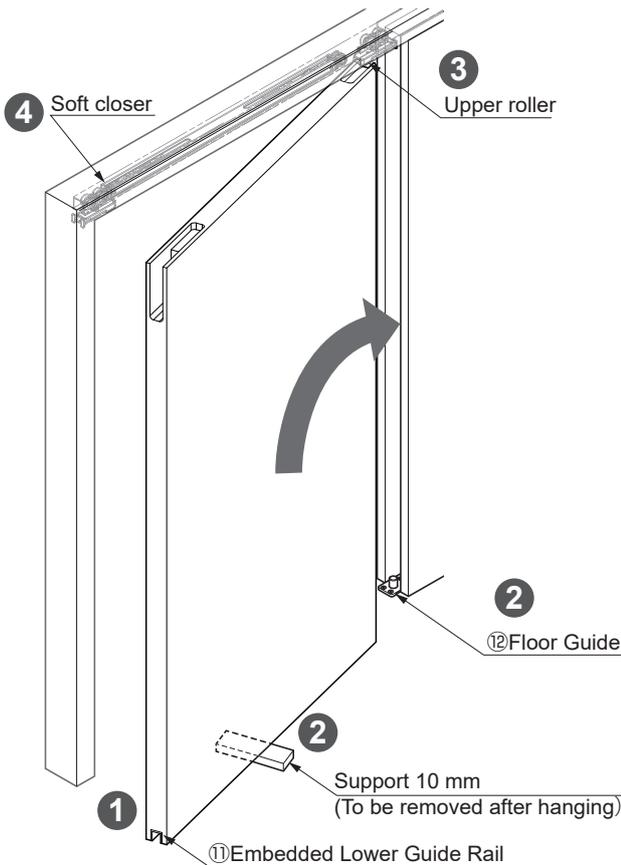
Fasten the four countersunk holes with the provided screws.



9 Hanging Door

- 1 Install the embedded lower guide rail under the door.
- 2 Place a 10 mm support under the door. While holding the door, place the groove under the door on the protruding part of the floor guide.
- 3 Insert the upper roller until it clicks.
- 4 Insert the soft closer until it clicks.

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



5 Verification of Soft Closer Operation

Slowly move the door in the closing direction, making sure that the closer hits the trigger and pulls the door in. Check the opening direction in the same way.

- Starting point of soft - close:
 Approx. 100mm before the fully-closed position.

Caution
 The Auto-Close Unit does not retract in the opening direction. Instead, it features a mechanism that keeps the door open when it reaches the fully open position.

10 Adjustment of Door Height

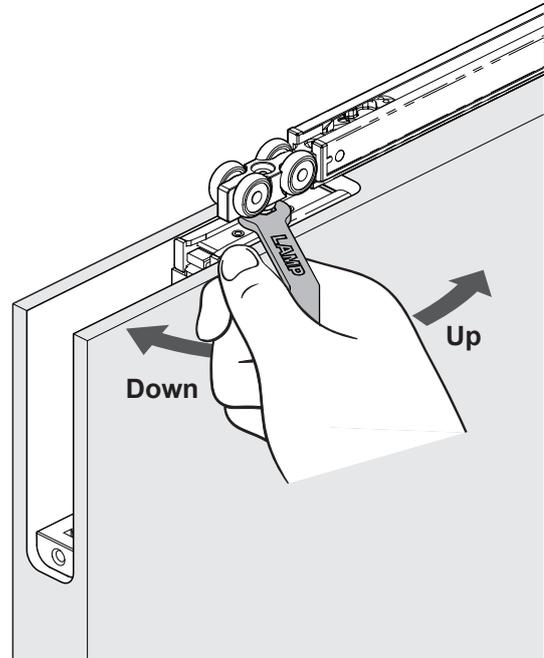
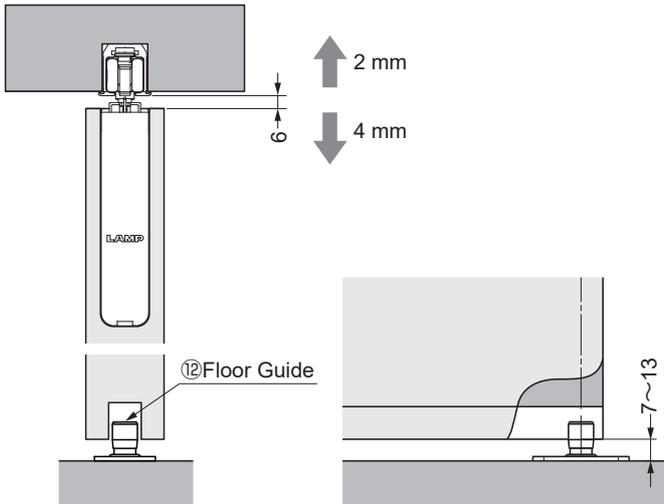
If door does not protrude from pocket (DN=0) please make sure to remove trim/casing before adjusting the door position.
(P.2 INSTALLATION DRAWING)

Adjust the door so that it is parallel to the upper rail and the gap between it and the floor is 7 to 13 mm.

⚠ Caution

⊘ Do not turn the adjustment screw beyond the adjustment range. Doing so may cause damage.

Vertical adjustment range: 6 mm

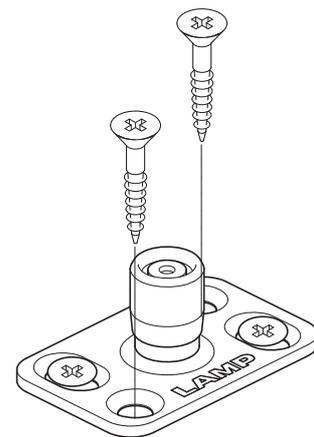
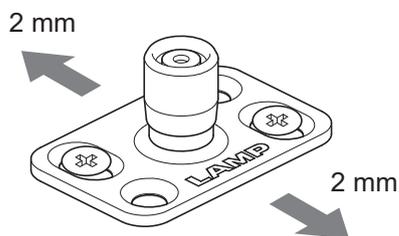


11 Adjusting, Fastening the Floor Guide

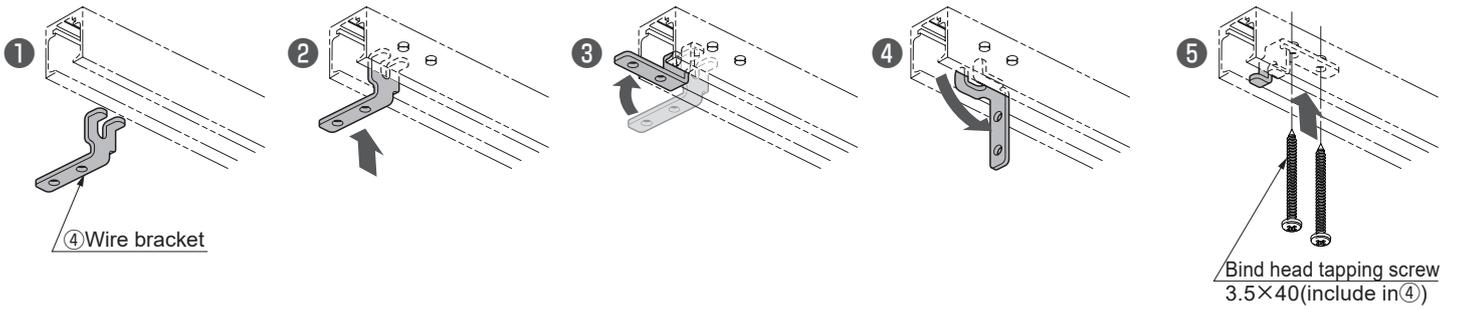
If the door movement is not smooth, remove the door, then adjust the floor guide forwards or backwards.

Tighten all four screws after the adjustment.

Adjustment range: ± 2 mm



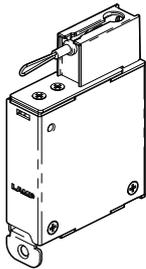
12 Wire Bracket Installation



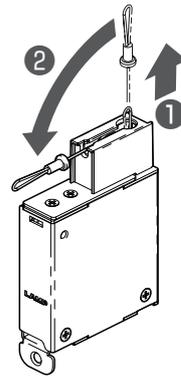
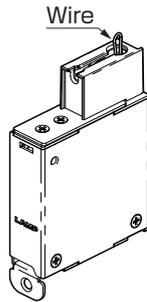
13 Auto-Close Unit Preparation (Checking Wire Position)

Complete before installing the ② Automatic shut-off unit to the door.

OK

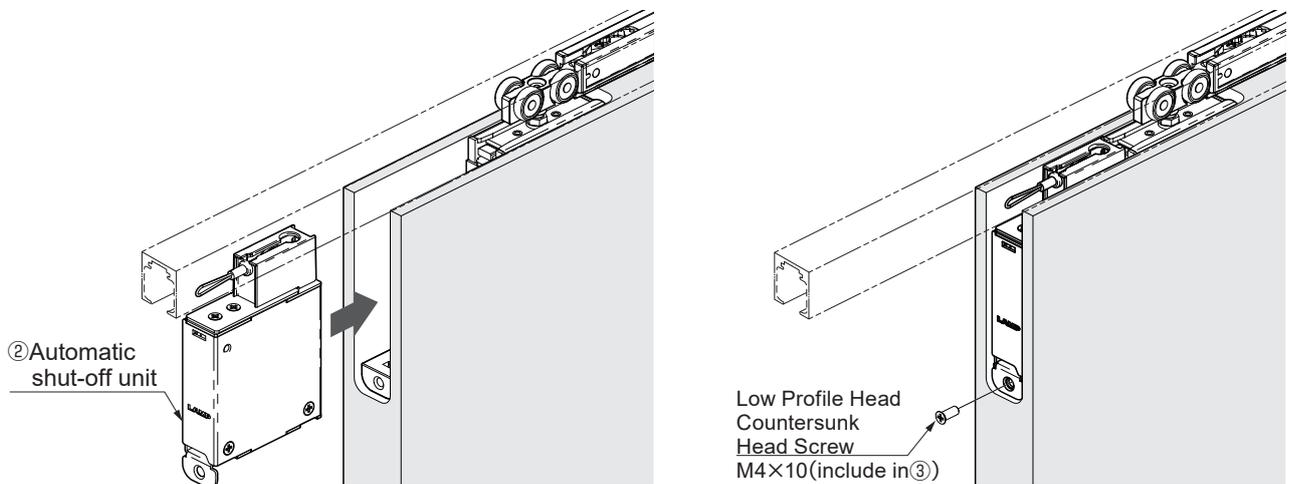


X Wire is not hitched in the groove



- 1 Pull out
- 2 Hitch into the groove.

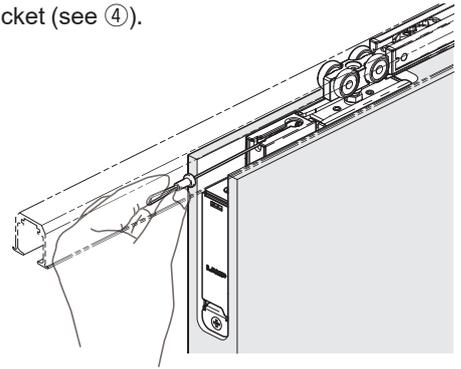
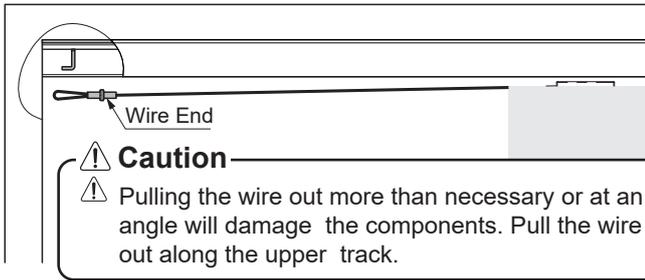
14 Inserting the Automatic Closer Unit into the Door



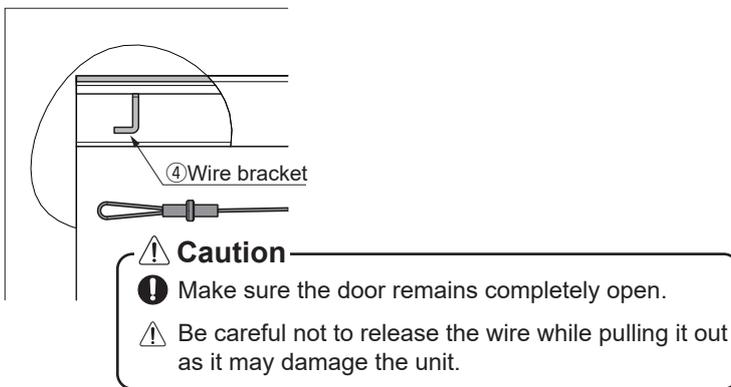
15 Hooking the Auto-Close Unit Wire to the Wire Bracket

Pull out the wire from the Automatic shut-off unit (see ②) and hook it to the wire bracket (see ④).

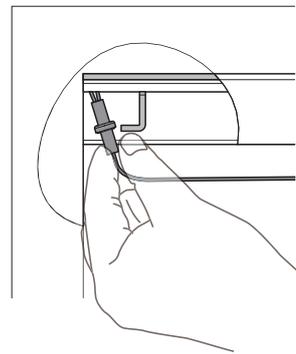
1 Pull out the wire



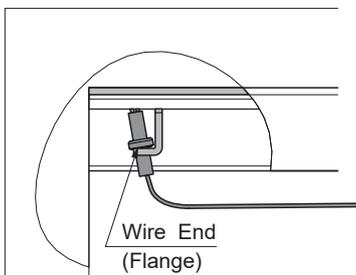
2 Pull the wire out until it reaches the wire bracket.



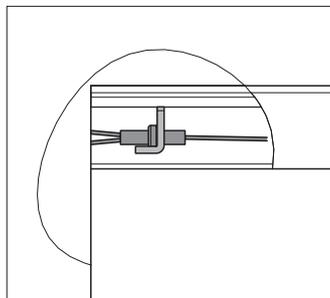
3 Insert the tip of the wire between the wire bracket and the door frame



4 Hook the flange at the end of the wire to the wire bracket.



5 Make sure the flange at the end of the wire is hooked onto the wire bracket.

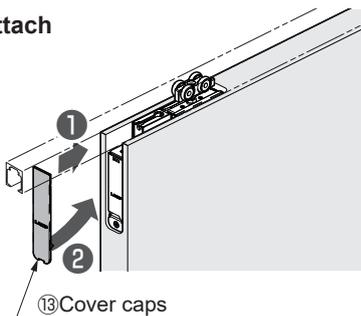


6 Check Operation

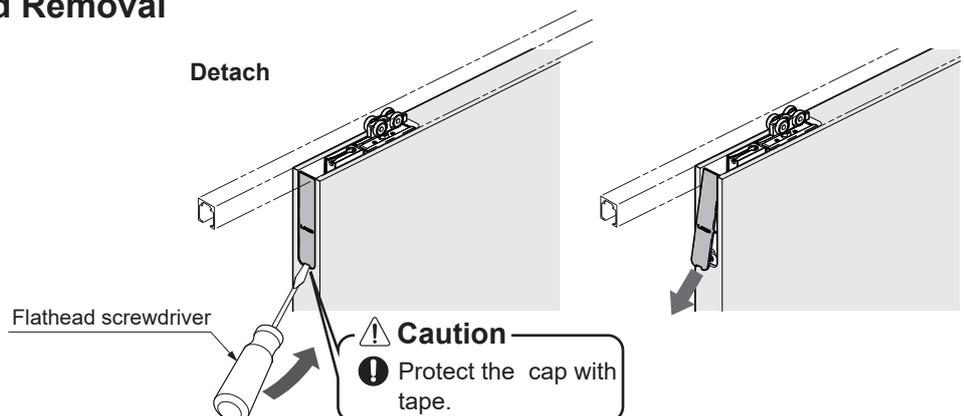
- Slide the door to its fully open position and confirm that it stays open.
- Ensure the door closes automatically and softly when released from the fully-open position. To disengage the fully-open hold feature, slide the door slightly in the closing direction.

16 Cover Cap Attachment and Removal

Attach



Detach

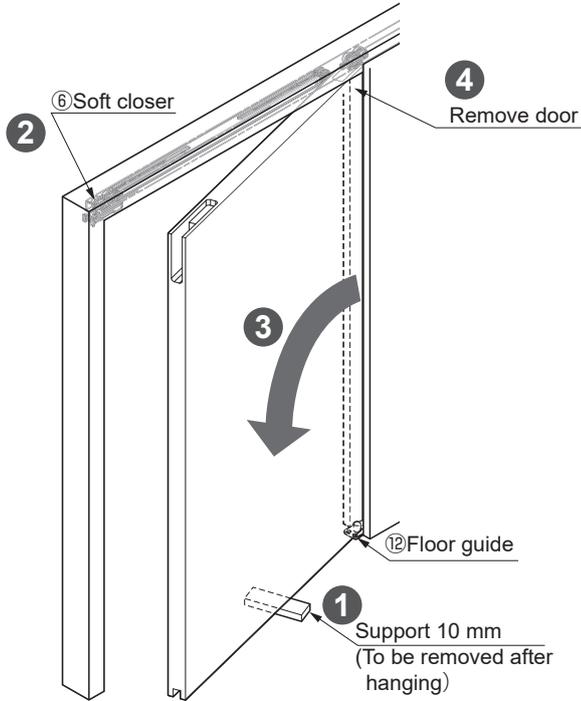


Appendix 1

How to Remove the Door and Upper Track

⚠ Caution

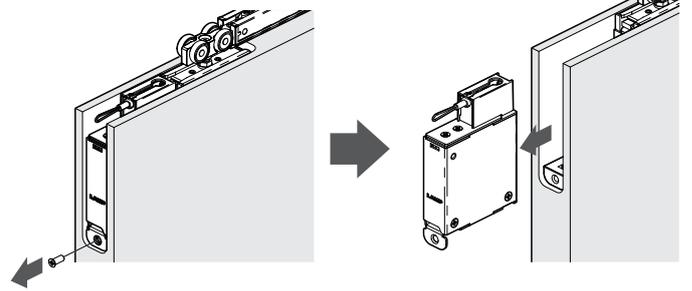
- ❶ Place a 10 mm support under the door.
- ❷ Remove the wire end of the auto-closing unit in advance.
- ❸ Be careful not to let the door fall.



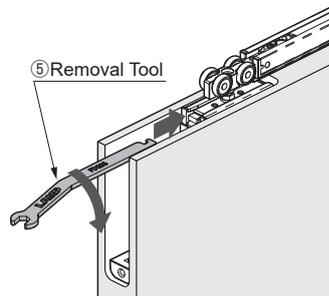
❷❹ Remove the Door

(Remove the Automatic shut-off unit and upper roller)

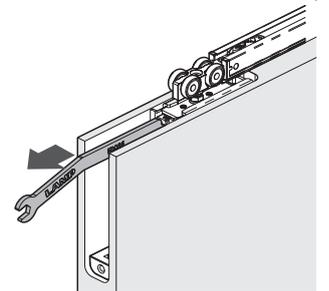
❶. Remove the Automatic shut-off unit.



❷. Insert the Removal Tool ❺ and rotate it to release the unit.



❸. Pull the Removal Tool ❺ and pull out the upper roller while lifting the door.



On the door trailing edge, remove the upper roller in the same manner.

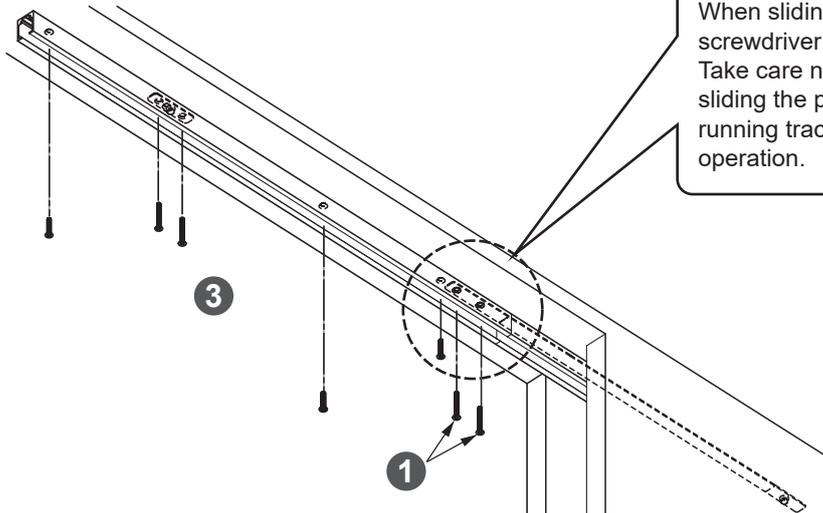
[2] How to Remove Upper Track

- ❶ Remove the pocket trigger screws.
- ❷ Slide the pocket trigger into the door pocket track.
- ❸ Remove the front trigger from the Open Area Track.
- ❹ Remove the Open Area Track.

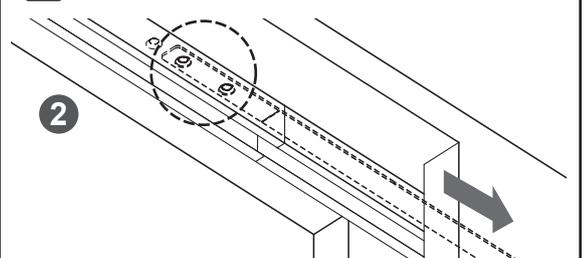
⚠ Caution

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

Hold the open area track when removing the last screw.



⚠ Caution

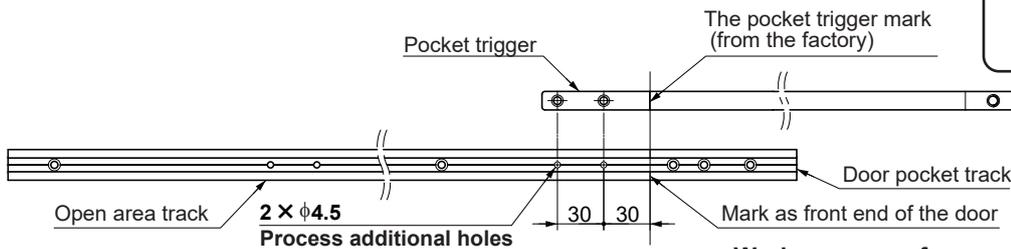
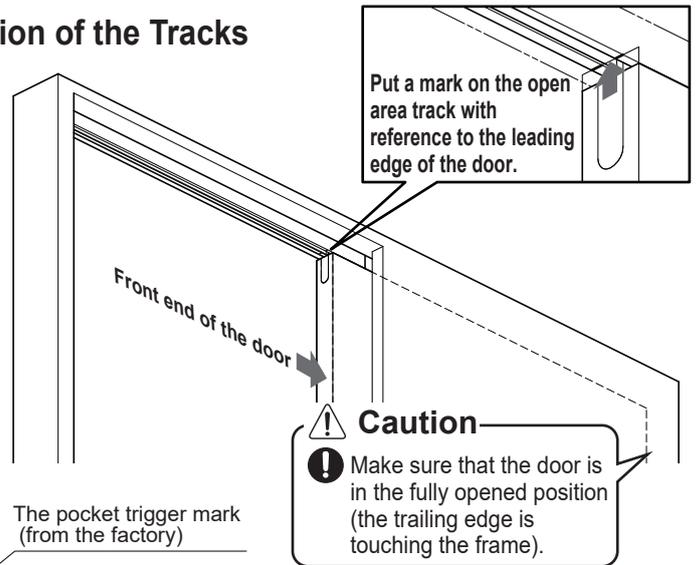


When sliding the pocket trigger, use a screwdriver etc.
Take care not to damage the track when sliding the pocket trigger. Scratches on the running track may cause roller noise during operation.

Appendix 2 How to Shift the Connecting Position of the Tracks

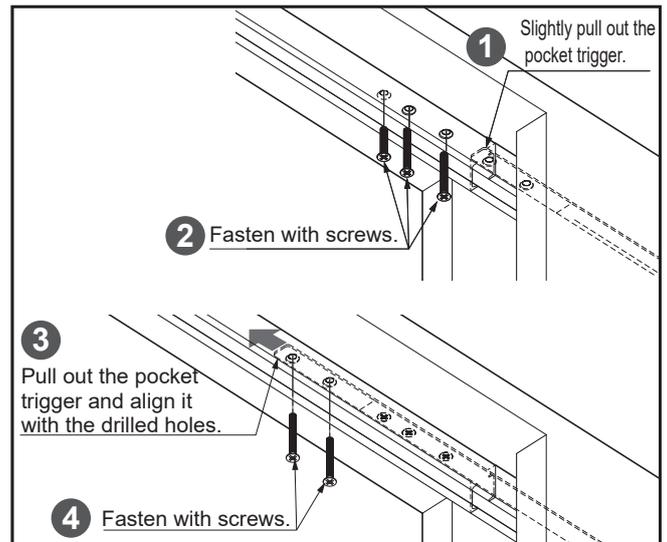
[1] When determining the trigger position on site

- (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.)



Work sequence for mounting the open area track (Applies to Method [1] & [2])

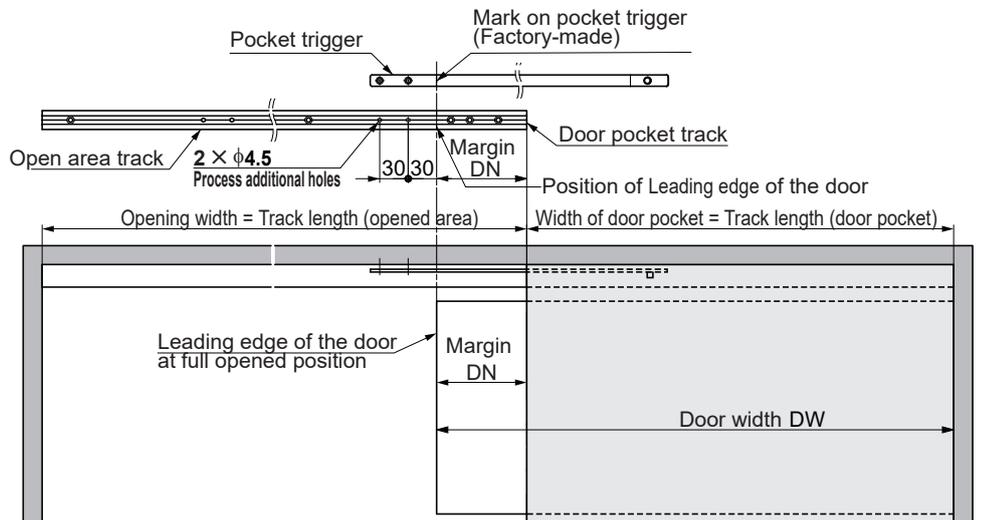
- (3) Mounting open area track
Follow the figure to the bottom right, since the working sequence is different from the regular process.
- (4) Hanging the door
Refer to the procedure [2] and the following procedures on page 3.



[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	<ul style="list-style-type: none"> • Clean the inside of the track. • Check that the space at the top and bottom of the door are even. Adjust if needed.
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TROUBLESHOOTING

Trouble	Checkpoint	Solution
Door stops or is caught during operation.	Check if the wires are installed in the correct position.	Check the mounting position of the wire bracket and secure it in the correct position. Also, make sure that the tip of the wire is hooked in the correct position. (Procedure 16)
	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 7 - 13 mm.
	Check if the rails are deformed.	Check the machining dimensions of the upper frame and whether the rails are deformed.
	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.
	Check if there is any gap or misalignment between the tracks.	Correct the misalignment or gap.
The door doesn't close softly	Check if trigger is installed.	Install trigger to specified position. Please note that the trigger position is different from that of the regular FD35EV.
	The position of the trigger catcher on page 4 section 5 may become dislocated. (Trigger Catcher is not visible due to installation position on the Upper Track.)	Slowly move the door towards the leading edge, then push the door firmly. Repeat this action on the opposite side as well. If it is still not improved, check the status of the trigger catcher in section 5 .
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 7 - 13 mm.
	Check if door touches adjacent parts.	Adjust position of the floor guide to avoid contact with adjacent parts.
	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.
Door feels heavy during operation	Check if door bottom contacts the floor or floor guide.	Adjust the door height such that the clearance between the door bottom and floor is 7 - 13 mm.
	Check if door touches adjacent parts.	Adjust the position of floor guide to avoid contact with other objects.
Door does not move.	Check the upper track retaining screws for looseness.	Retighten the screws to free the roller.

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