

Installation Manual

FDQ35 AUTO-CLOSING SLIDING DOOR SYSTEM

Two-way Damper/Recessed Upper Roller

LAMP®

Part No.FDQ35EVDHCMP

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

ABOUT THE PRODUCT

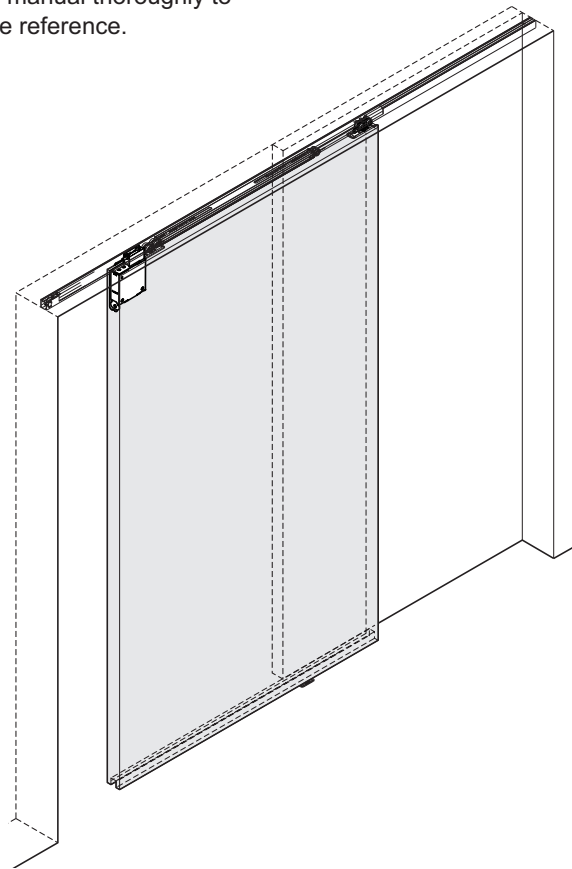
- This is a parts set for a sliding door system for residential & commercial use.
- The door automatically closes from any position it is manually opened to. When closing, the closer mechanism closes the door slowly and quietly.
- The wire retraction design allows for use in regular frames and easy installation. 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)



Product Info



FOR YOUR SAFETY AND CORRECT INSTALLATION



Warning
Caution



Prohibited



Required

WARNING: If not followed, death or serious injury may result.



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



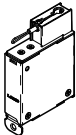
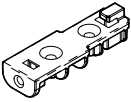
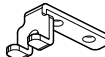

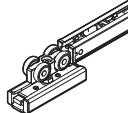

- Do not use this product for any other purpose, or with doors that are outside the specifications of this manual.
- Do not disassemble or modify any parts other than those described in this document.




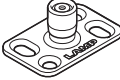

WARNING: If not followed, death or serious injury may result.



- 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.	FD35EV-TRM	FD35EV-TRH	FDQ35				FD35EV-WRM-DSC	FD35EV-WRM
Parts	Use either one.		 1 pc	 1 pc	 1 pc	 1 pc	 1 pc	 1 pc
Accessories	Hole pitch : 300 mm Pitch end : 30 mm Countersunk head tapping screws 3.5 × 25		—	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
Name	Spanner Wrench	Trigger	Embedded Lower Guide Rail	Floor Guide	Cover Cap
Part No.	FD35EV-WRM-SP8	FD35EV-TRG	FD30-HBRT	FD50-BGR18	FDQ35-CP
Parts	 1 pc	 1 pc	 1000 mm~1500 mm Hole pitch : 250 mm Pitch end : 30 mm	 1 pc	
Accessories/ recommendations	—	Flat head tapping screw (countersunk head diameter 6) 4 × 30 · · · · · 2 pcs	Recommended screw: Countersunk head tapping screw 4 × 20	Countersunk head tapping screw 4 × 20 · · · · · 4 pcs	—

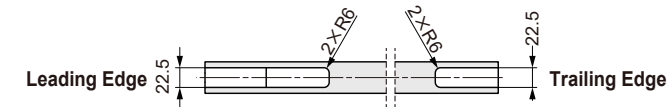
INSTALLATION DRAWING (EXAMPLE)

See P.7 APPENDIX 2 when door stopper (option) is used.

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

INSTALLATION DRAWING (EXAMPLE)

(In this manual, a single sliding door is used as an example.)

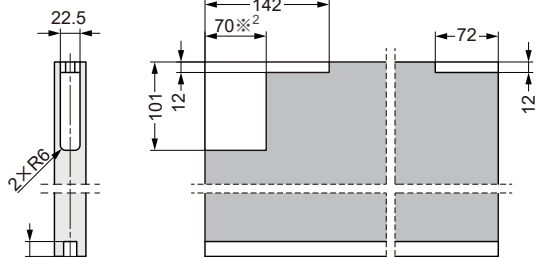


- ※² Dimensions include optional decorative cap.
- ※³ The groove depth 20 is for reference only.

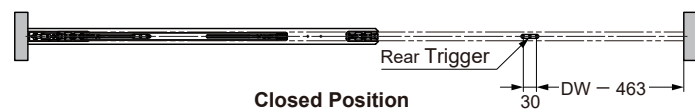
Surface Mount Rollers

Please inquire separately for a drawing of how it fits if the bracket is not embedded in the door.

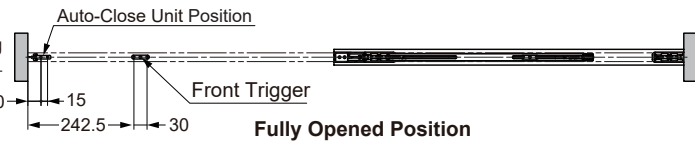
CAUTION
See P.7 APPENDIX 2 when door stopper (option) is used.



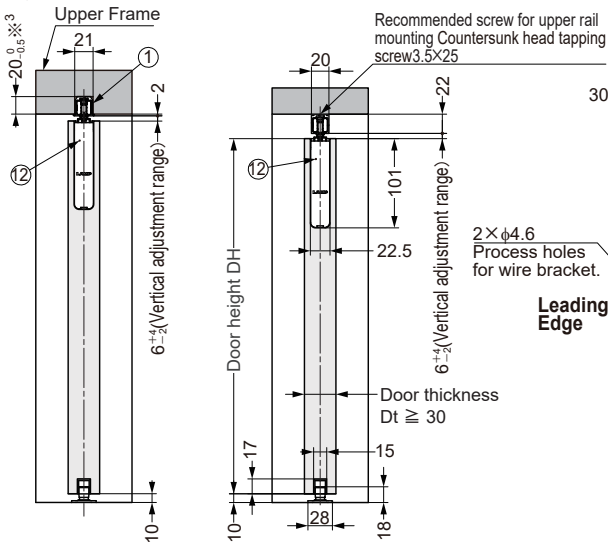
Door Processing Dimension



Closed Position

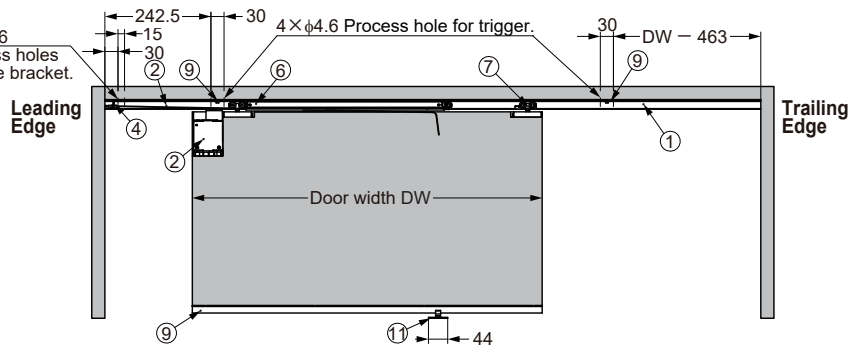


Fully Opened Position



When using recessed mount track

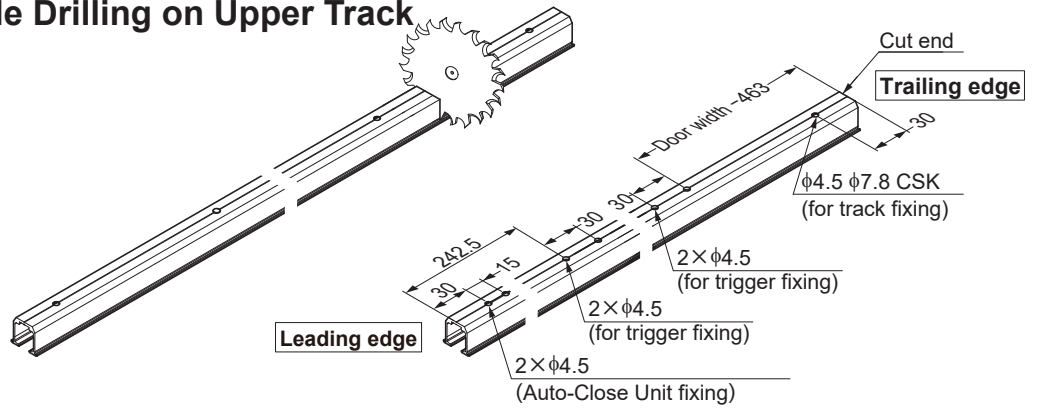
When using surface mount track



INSTALLATION PROCEDURE

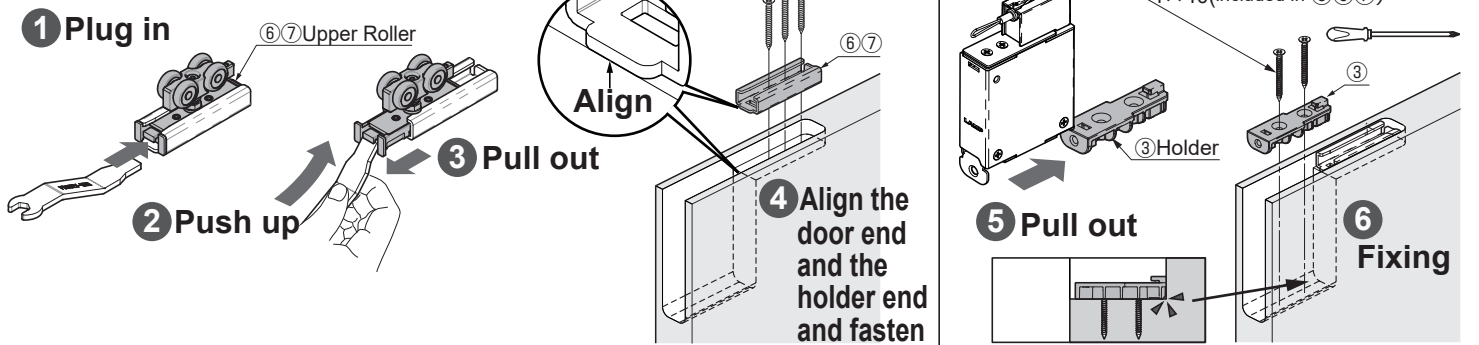
1 Cutting Track and Hole Drilling on Upper Track

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



2 Mounting Parts on Door

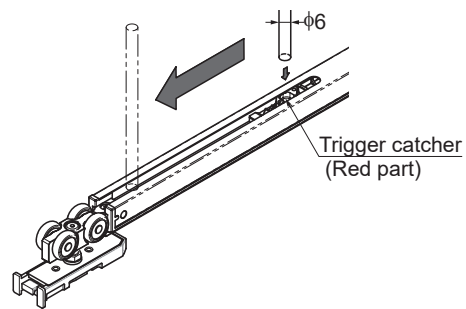
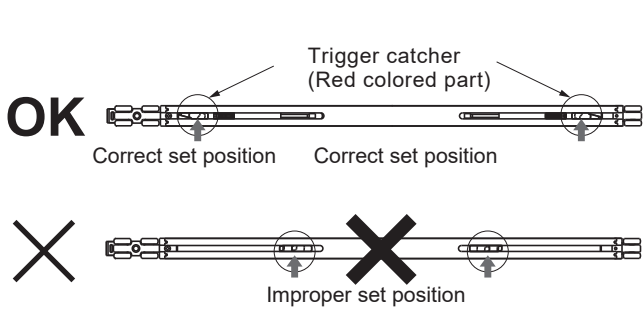
Countersunk head tapping screw 4×40 (included in ③⑥⑦)



3 Verification Before Installing Soft Closer

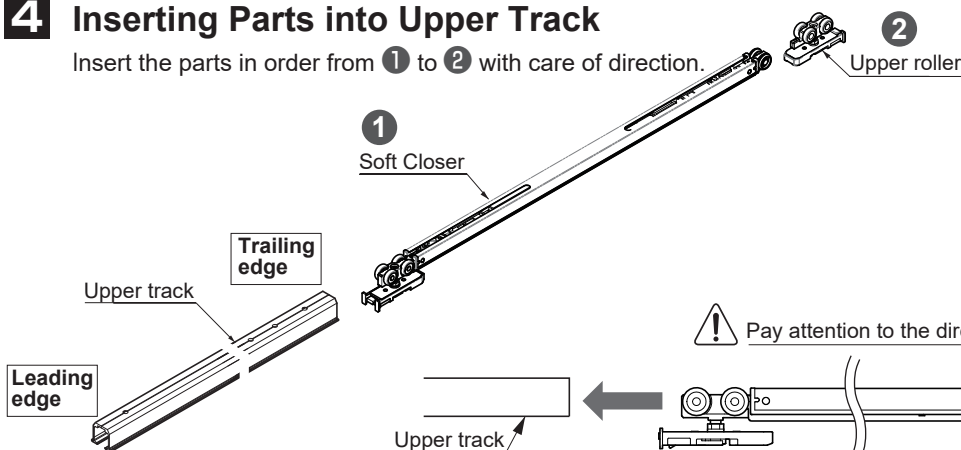
Caution
Without verification the self closing feature may fail.

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



4 Inserting Parts into Upper Track

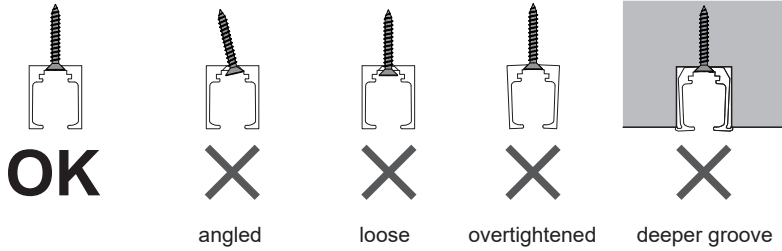
Insert the parts in order from ① to ② with care of direction.



CAUTION

- Remove any dirt or aluminum chips from the track.
- Tape around rollers and upper track to prevent inserted parts from falling.

5 Mounting of Upper Track (Recommended screw: Countersunk head tapping screw 3.5×25)



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.

6 Fastening of Trigger

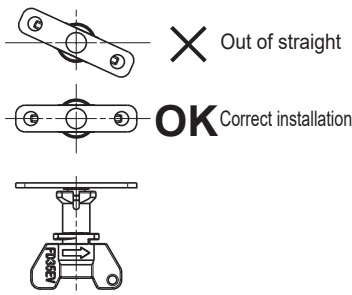
Fasten trigger to the hole made during procedure 1 with provided screws. The jig makes it easy to install the trigger.

1 Assemble trigger to jig.

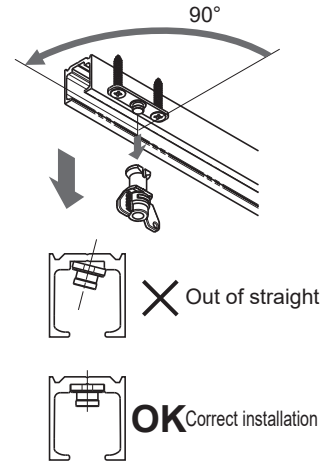
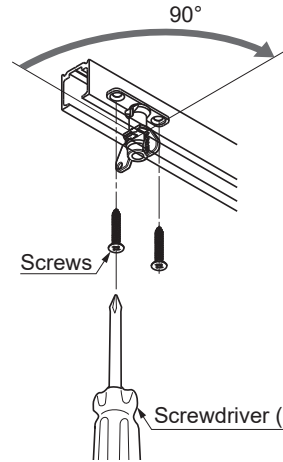
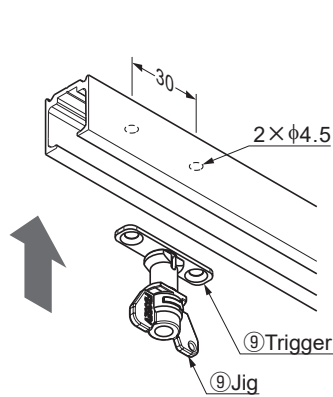
2 Align trigger with the holes.

3 Turn the jig 90° and fix the trigger.

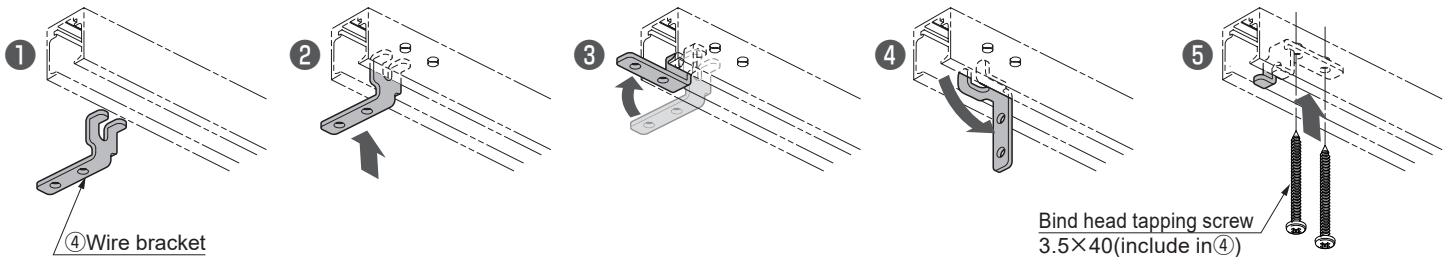
4 Remove the jig.



Trigger assembly

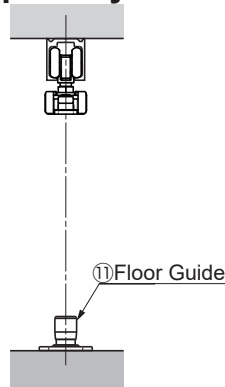


7 Wire Bracket Installation

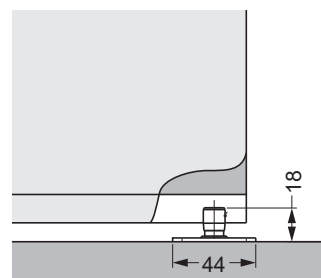


8 Mounting of Floor Guide Temporarily

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.

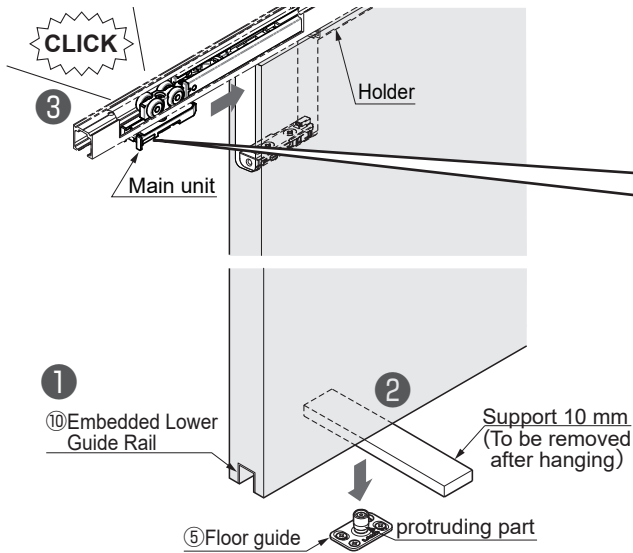


Temporarily fasten through the slotted holes with the provided screws.



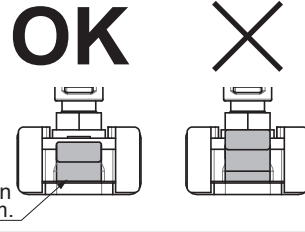
9 Hanging Door

- 1 Install the Embedded Lower Guide Rail.
- 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 Soft closer until it clicks.



CAUTION

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



4 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.

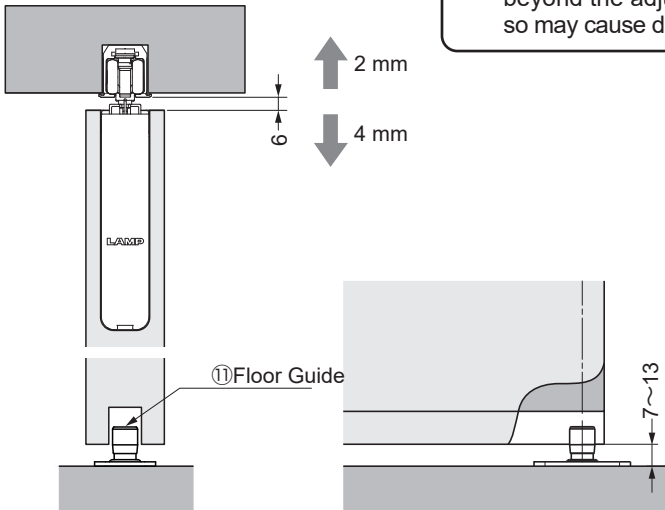
CAUTION

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

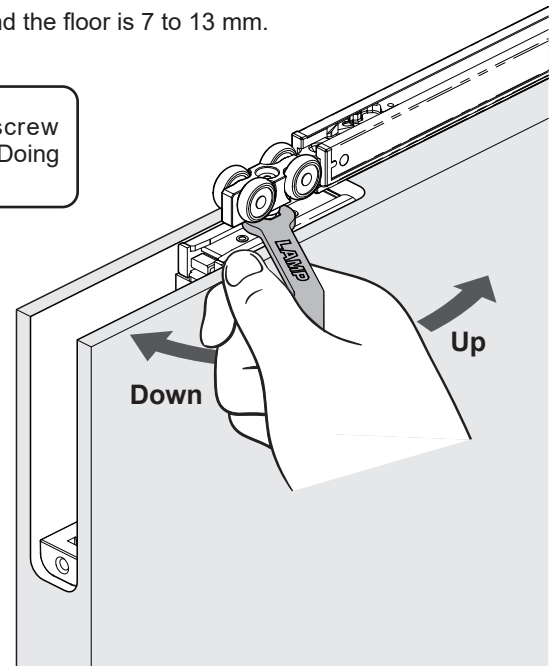
Adjust the door so that it is parallel to the upper rail and the gap between it and the floor is 7 to 13 mm.

Vertical adjustment range: 6 mm



Caution

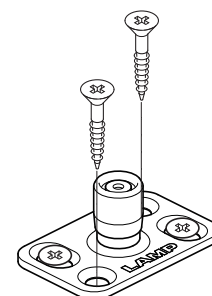
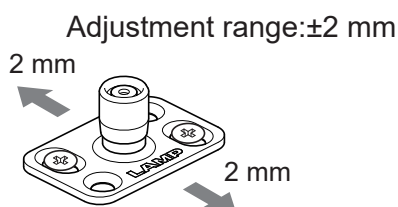
Do not turn the adjustment screw beyond the adjustment range. Doing so may cause damage.



11 Adjusting, Fastening the Floor Guide

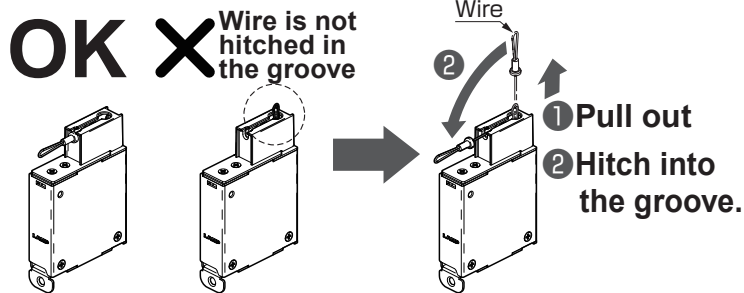
If the door movement is not smooth, remove the door, then adjust the floor guide forwards or backwards.

Tighten all four screws after the adjustment.

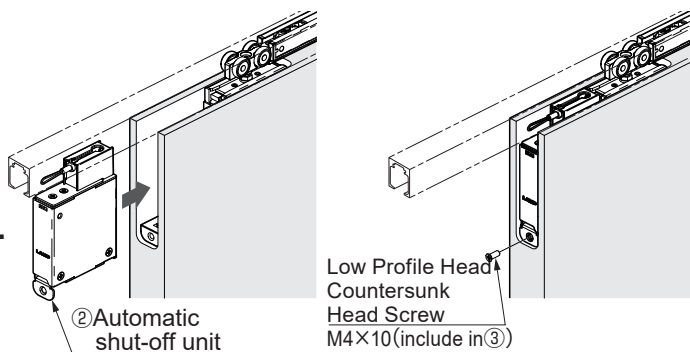


12 Auto-Close Unit Preparation (Checking Wire Position)

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



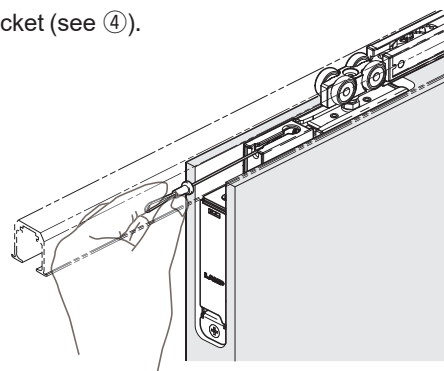
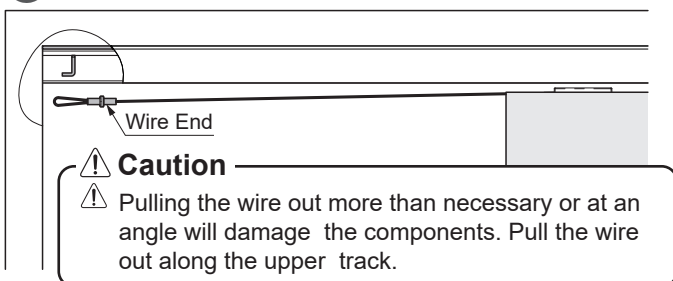
13 Inserting the Automatic Closer Unit into the Door



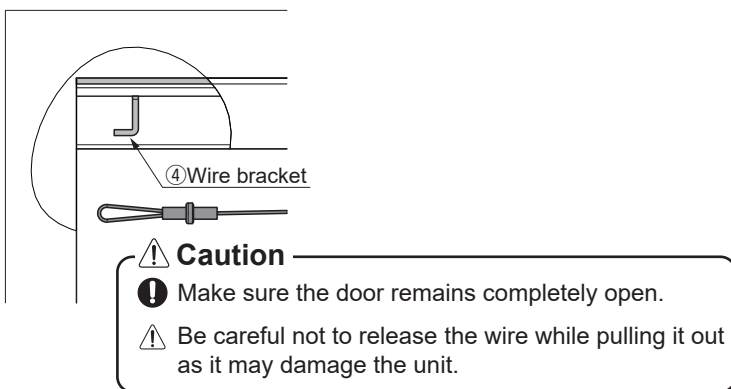
14 Hooking the Auto-Close Unit Wire to the Wire Bracket

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

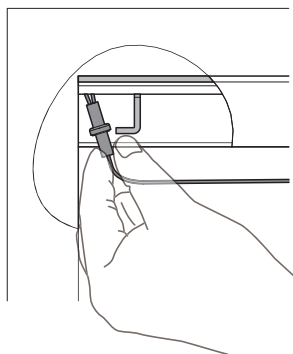
1 Pull out the wire



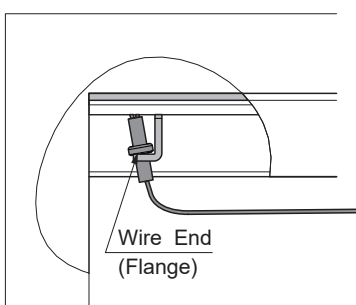
2 Pull the wire out until it reaches the wire bracket.



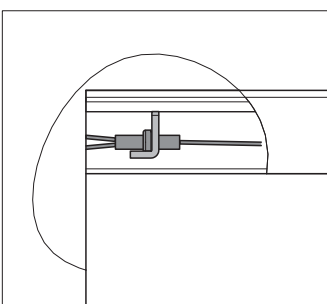
3 Insert the tip of the wire between the wire bracket and the door frame



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.

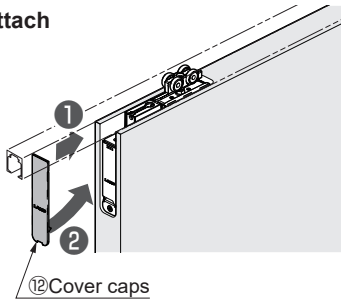


6 Check Operation

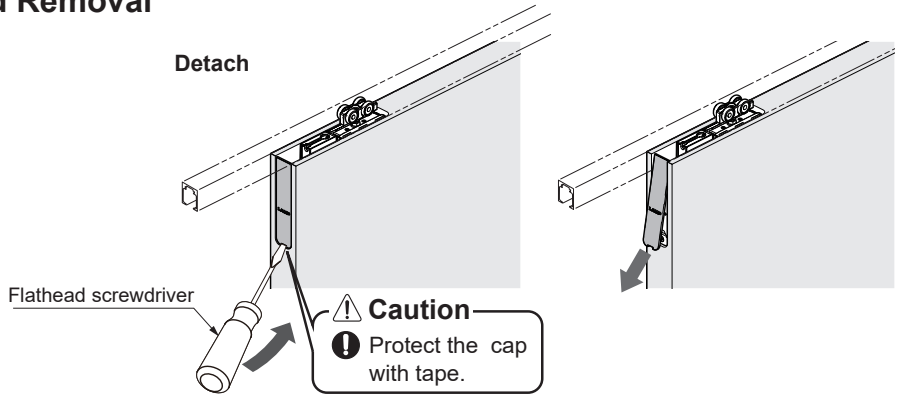
- Slide the door to its fully open position and confirm that it stays open.
- Ensure the door closes automatically and softly when released from the fully-open position. To disengage the fully-open hold feature, slide the door slightly in the closing direction.

15 Cover Cap Attachment and Removal

Attach



Detach

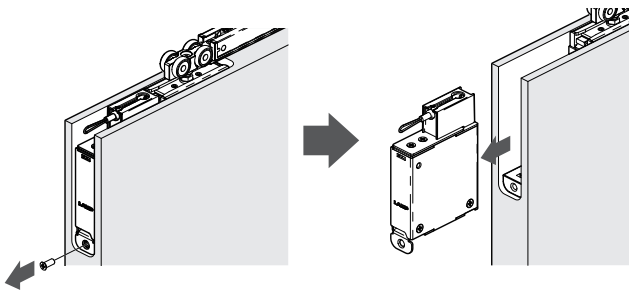


Appendix 1 Remove the Door

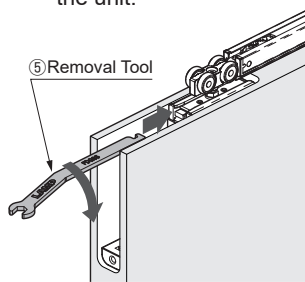
Caution

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

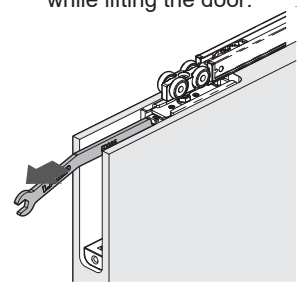
1. Remove the Automatic shut-off unit.



2. Insert the Removal Tool ⑤ and rotate it to release the unit.



3. Pull the Removal Tool ⑤ and pull out the upper roller while lifting the door.



On the door trailing edge, remove the ⑦ Upper Roller in the same manner.

Appendix 2 When Vertical Frame is not Used

When vertical frame is not used, use the door stopper and bumper block on the track and on the floor.

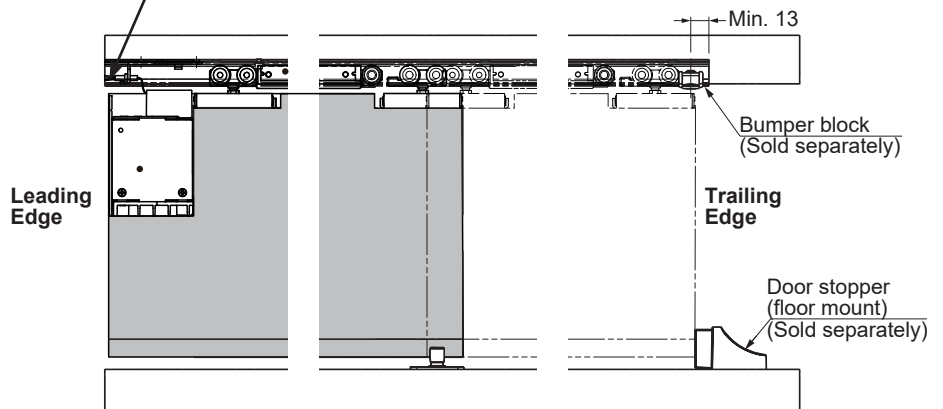
Fasten the door stopper at the location where the door will stop. Fix the bumper block to both the upper track ends, then adjust it to the position where the door closes.

Caution

The soft closer may be damaged if door stopper and bumper block are not installed.

Caution

Bumper blocks cannot be used on the door end side. The door must fit against a vertical frame.



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 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 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 14)
	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. Please note that the trigger position is different from that of the regular FD35EV.
	The position of the trigger catcher on page 3 section 3 may become dislocated. (Trigger Catcher is not visible due to installation position on the Upper Track.)	The trigger position is different from that of the regular FD35 for the vertical frame on each of the door end side and the door rear side. Push the door in slowly and surely. If the problem persists, remove the door and rail and check step 3 .
Abnormal noise during operation	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 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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