

LAMP® FD30-H SLIDING DOOR SYSTEM Installation Manual (Ceiling Mount Type for Pocket Door, with Dual Soft Close)

Part No.FD30DHCP-PD

Thank you for purchasing Sugatsune products.

Read the instructions carefully first to ensure correct installation.

After reading the instructions and installing the product, keep this guide at hand for easy reference at any time.

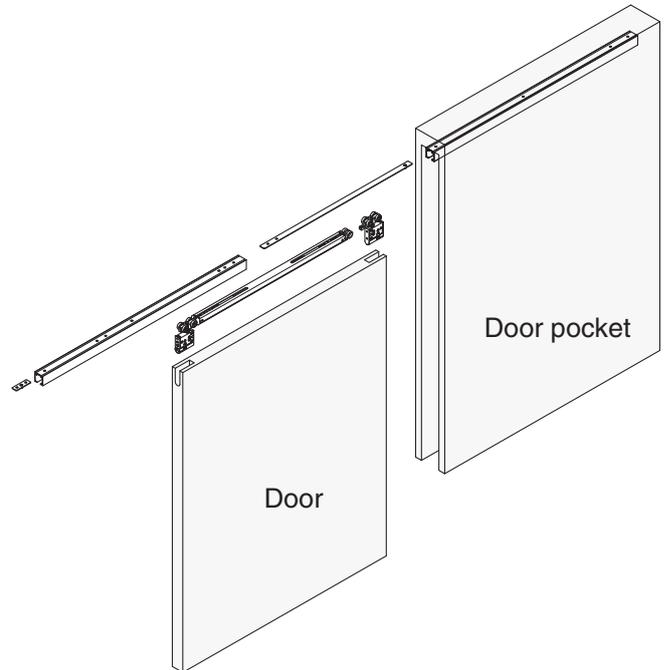
ABOUT THE PRODUCT

- This product is parts set for sliding door system for indoor use.
- The rail can be divided for easy maintenance after installing.

SPECIFICATIONS

Door width	590 - 1000mm
Min. Door thickness	30mm
Max. Door weight	30kg/door
Vertical adjustment	4mm upward 3mm downward
Right-and-left adjustment	±2mm

- The closing speed of the soft closing type door may change due to ambient temperature, operating method or installation quality.
- Recommended ambient temperature range is 5 to 40 degrees centigrade.
- Door retraction: Retract door slowly.



FOR YOUR SAFETY WORK AND OPERATION

	This symbol denotes prohibited actions.
	This symbol denotes what must be done.

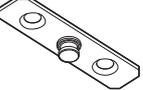
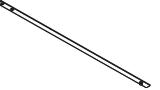
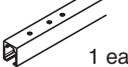
WARNING: If these warnings are not followed, it may result in death or serious injury.

- It is necessary to manufacture the frame with sufficient strength so it endures the weight of the door and impact shocks upon opening/closing the door. Also make sure to only use the designated screws and to fasten them firmly. A frame with poor strength or loose screws might result in improper and slower movement of the door. In the worst case, the door might drop down and cause injury.
- Do not try to use this product for any other purposes than originally intended for. Do not use the parts for applications that are out of specification.
- Do not disassemble nor modify any parts other than those described in this document.

Caution: If these cautions are not followed, it may result in injury or damage.

- This (sliding door system) should be installed by an experienced person who has correct knowledge. If the system is not installed correctly, the door will not operate smoothly, and or may cause injury.
- This (sliding door system) is a part for furniture fittings. After installation, make sure to test the finished product thoroughly to ensure that it is well-functioning and safe.
- Make sure to follow the designated measurements and specifications as well as horizontal and verticals angles. Make sure that frame and door are not warped nor bent, since it may affect the movement of the door.
- If cutting any parts, make sure to remove any burr before installation. Also check the upper rail for any left-over burr or scrap and remove these.
- Make sure to test the screws for slack at regular intervals (one month from first usage, half year and then one time every year is recommended).
- When installing "pocket door" specification, make "easy-maintenance" structure. For example, use 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.

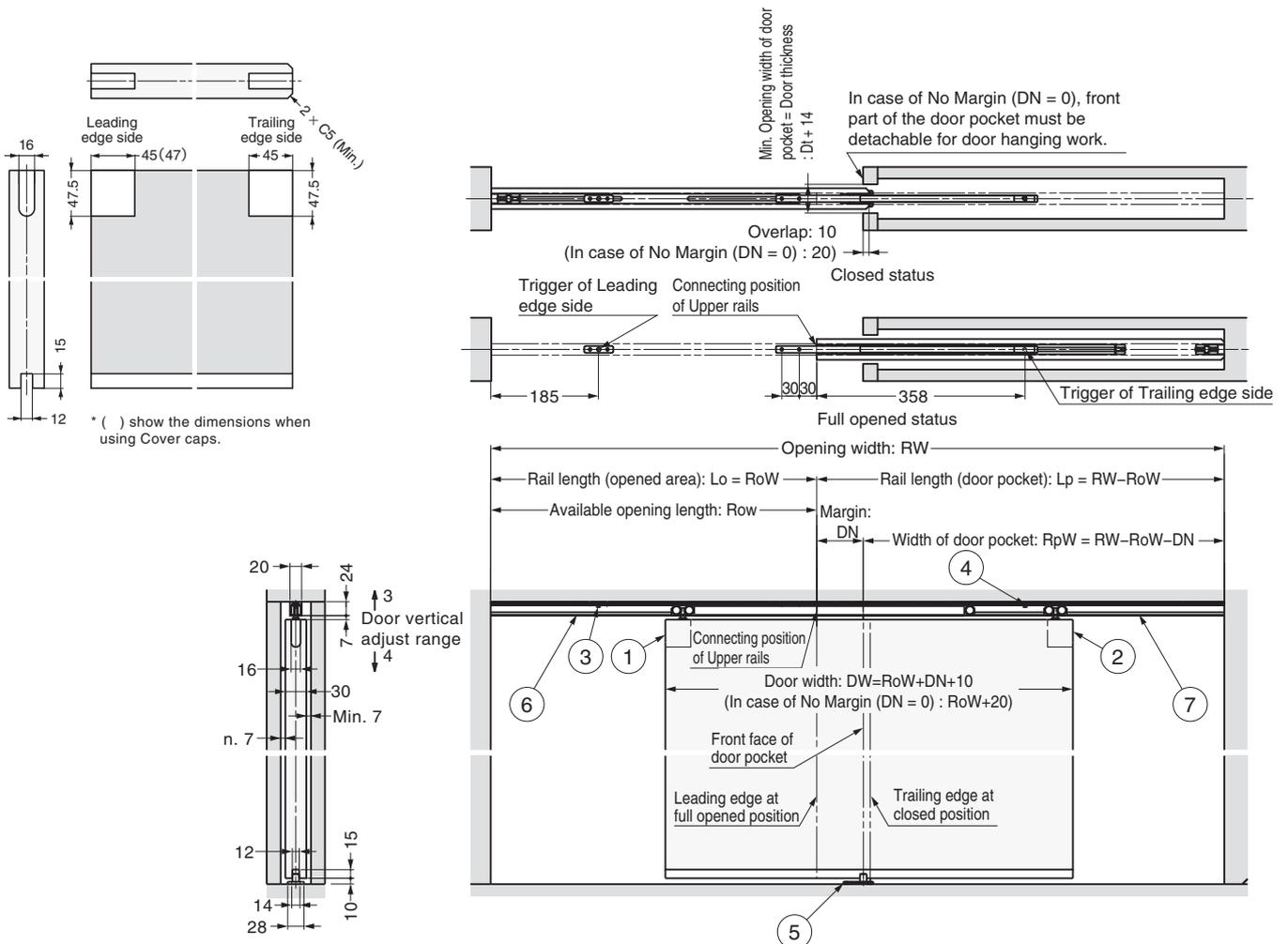
COMPONENT PARTS

	①	②	③	④	⑤	⑥	⑦
	Dual Soft Closer	Upper roller (recessed)	Front trigger	Pocket trigger	Floor guide	Open area rail	Door pocket rail
Order code	250-026-118	250-020-837	250-029-705	250-029-704	250-017-151	Available with various length and finishes	
Part No.	FD30-WRH-DSC-A	FD30-WRH-N	FD30-TRGPF	FD30-TRGPB	FD30-HBG	FD30-TRP	
Door pocket						The profile of ⑥ and ⑦ are the same, but the cut length and hole location are different. See installation procedure 1 for the detail.)  1 ea.  1 ea.	
Accessories	Cross recessed pan head tapping screws 3.5 x 30 3 ea.	Cross recessed pan head tapping screws 3.5 x 30 3 ea.	Cross recessed countersunk head tapping screws 4.0 x 30 2 ea.	Cross recessed countersunk head tapping screws 4.0x 30 2 ea.	Cross recessed countersunk head tapping screws 3.5 x 30 4 ea.	Cross recessed countersunk head tapping screws 3.5 x 30 (Q'ty depends on the hole location)	

Some other option parts are available. See page 8 for the detail.

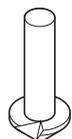
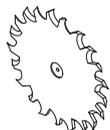
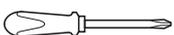
INSTALLATION DRAWING (EXAMPLE)

The below shows the sliding door when the leading edge is aligned with the connecting position of the upper rails.
If you like to shift the connecting position towards Door pocket, see page 9.



TOOLS REQUIRED FOR INSTALLATION

- Philips head driver #2
- Machine or tool for cutting aluminum ally
- Drill bit for metal: $\phi 4$
- Drill bit for metal (for $\phi 7.8$ countersunk hole)



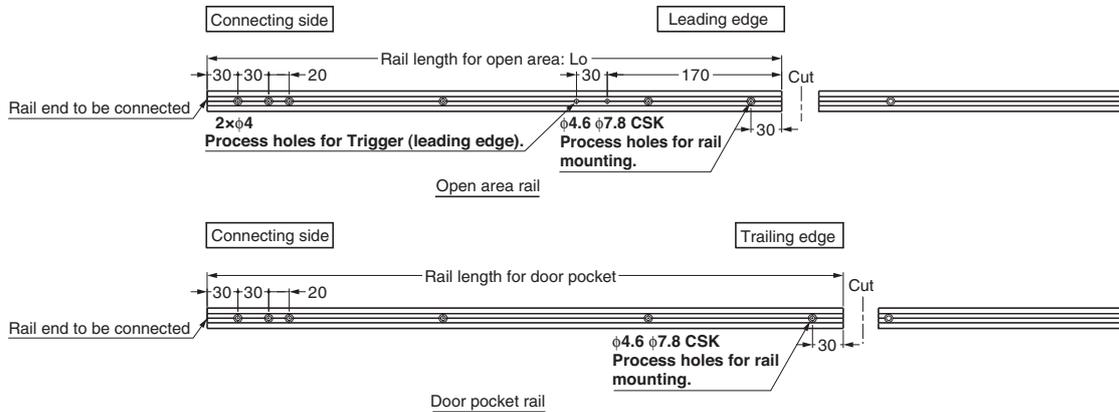
Confirmation before assembly

- Check that dimensions of frame, floor, door and rail are correct.
- Check that door is not warped.
- Check that frame and floor are not inclined.
- Check that all parts are prepared.
- Check that door is processed correctly.

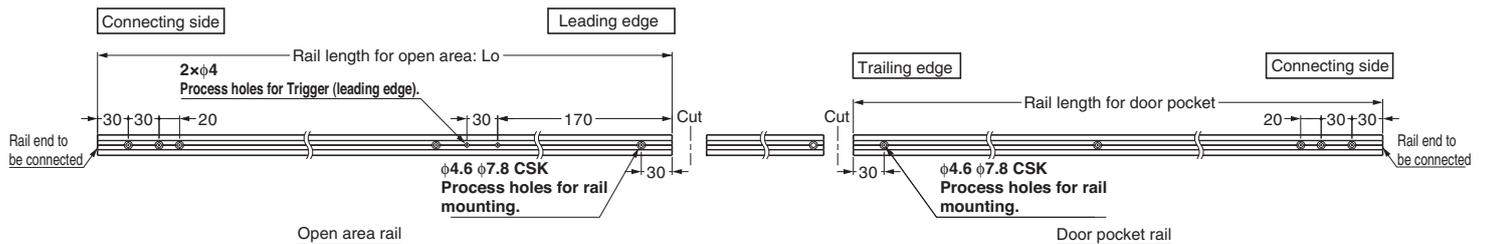
 Remove any dirt or aluminum chips from the rail as they would damage the rollers and cause noise during operation.

1 CUTTING RAIL AND HOLE PROCESSING

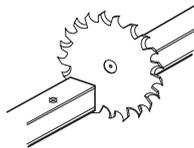
When using 860mm rail and 1260mm rail (1 ea.)



When cutting from a long rail (1860mm, 2760mm, 3960mm)



 When cutting, use reinforcer for the rail to prevent deformation at cut section.



2 INSTALLING DOOR POCKET RAIL

Mount Door pocket rail to the upper frame.
Fix it with attached screws.

 Remove any dirt or aluminum chips from the rail.

The end which has three countersunk holes must face center.

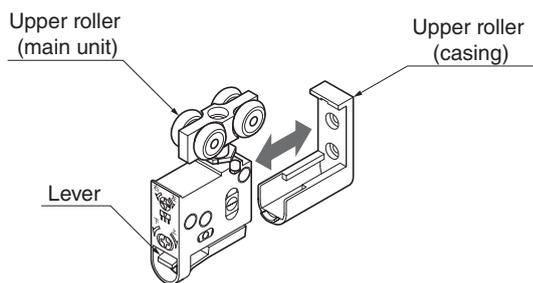
Door pocket rail

Attached screws
(Cross recessed countersunk head tapping screws 3.5 × 20)

Assemble the cover panel to the door pocket after mounting the rail.

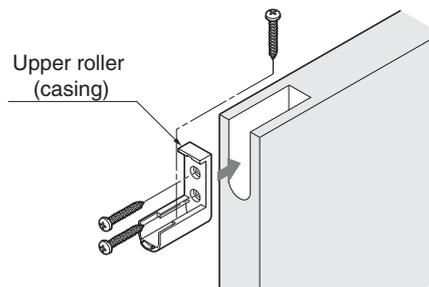
3 PREPARATION OF MOUNTING PARTS

Pull up lever to separate main unit from casing.

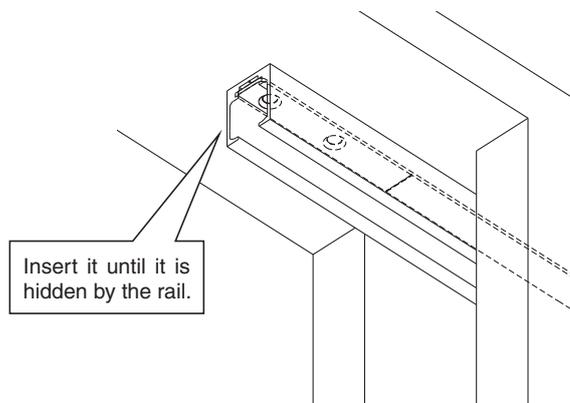
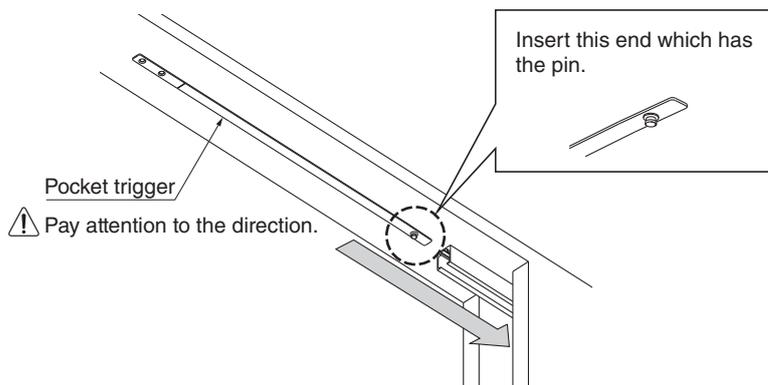


4 INSTALLING CASING

Fix the casing with attached screws firmly.

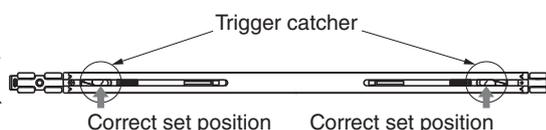


5 INSTALLING POCKET TRIGGER

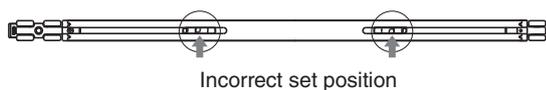


6 CONFIRMATION BEFORE INSTALLING THE DUAL SOFT CLOSER

OK



X



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



! If the closer is installed without conformation, it will cause the trouble such as no-sliding of door.

7 ASSEMBLY OF PARTS FOR OPEN AREA RAIL

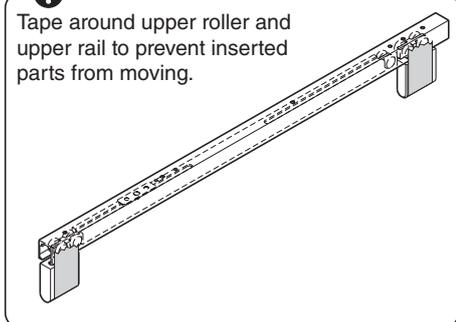
Assemble the parts in order of ① to ③ with care of direction. You can insert the parts smoothly from the connecting end which has no burr.

!

Remove any dirt or aluminum chips from the rail.

!

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



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

Connecting side

Open area rail

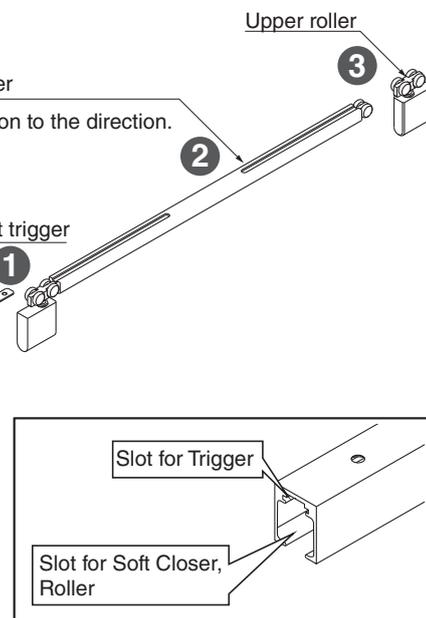
Leading edge

Dual Soft Closer

! Pay attention to the direction.

Front trigger

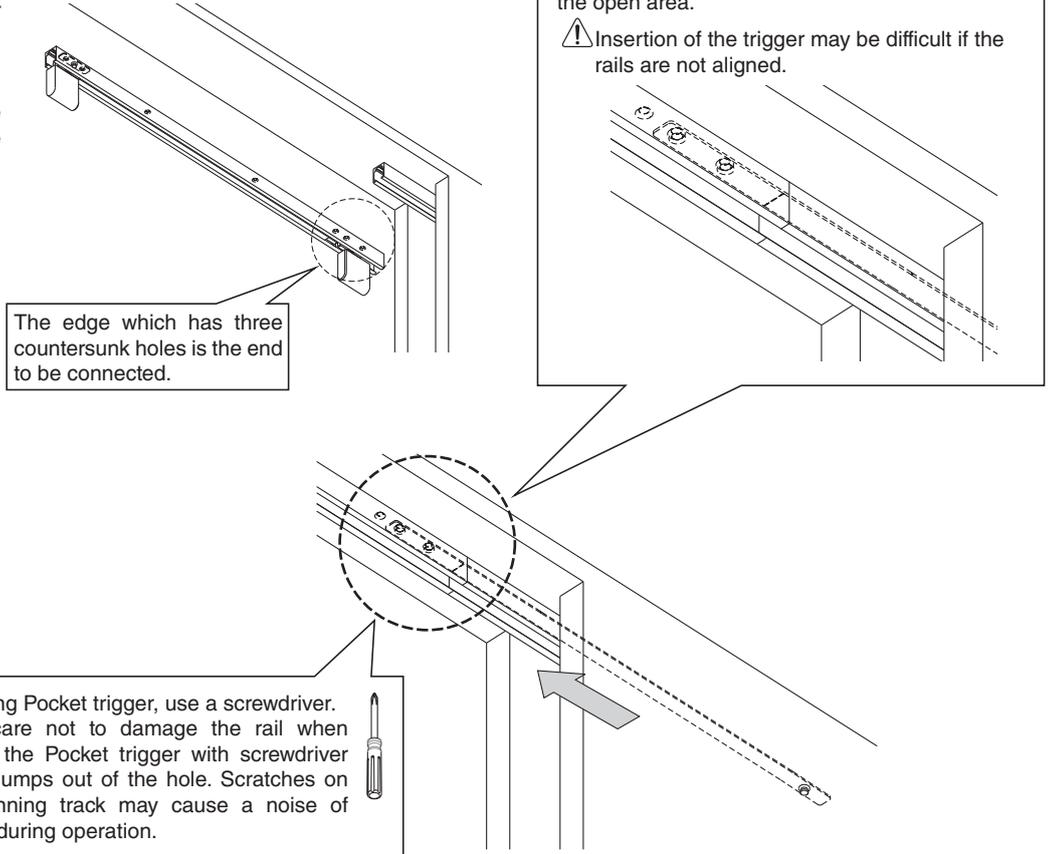
Upper roller



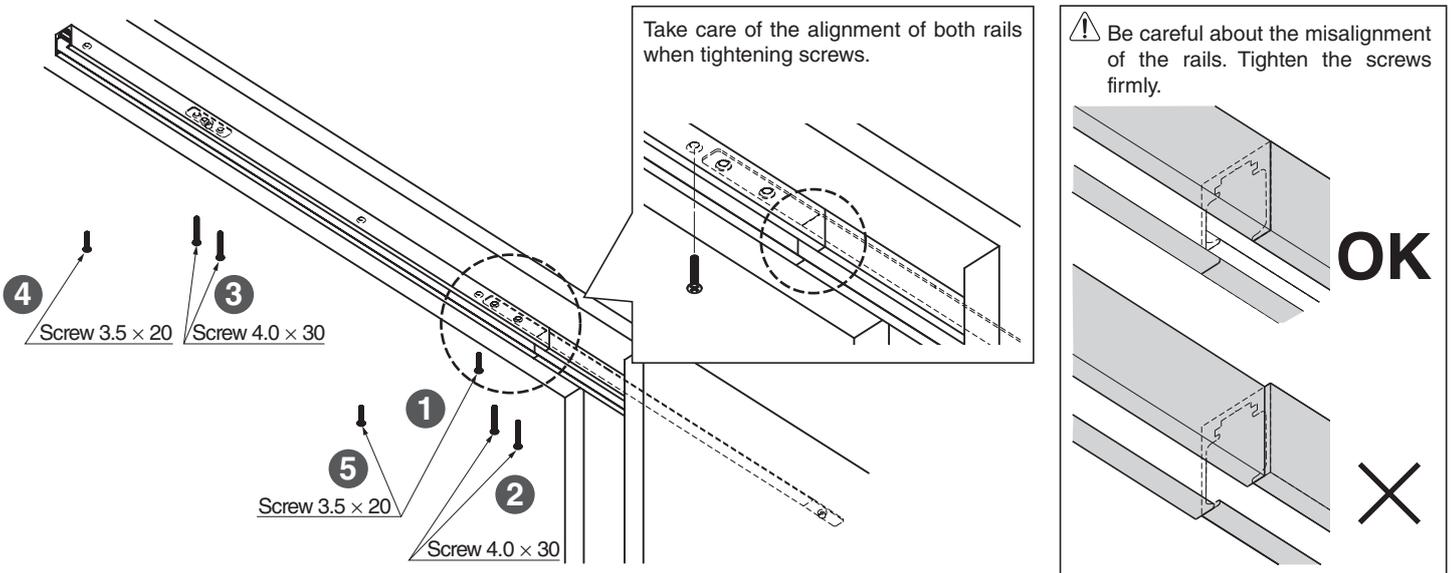
8 INSTALLING OPEN AREA RAIL

Align the rail end to the end of the door pocket rail.

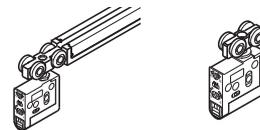
Pull out the Pocket trigger from the door pocket rail, and insert it to the open area rail.



Fix the Open area rail and Pocket trigger with provided screws in order of ① to ⑤.



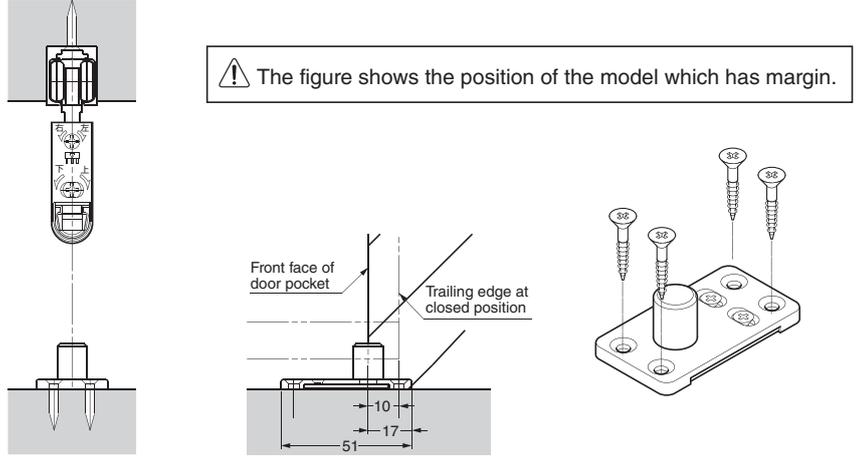
⚠ Move Rollers if they cover the fixing holes on the rail.



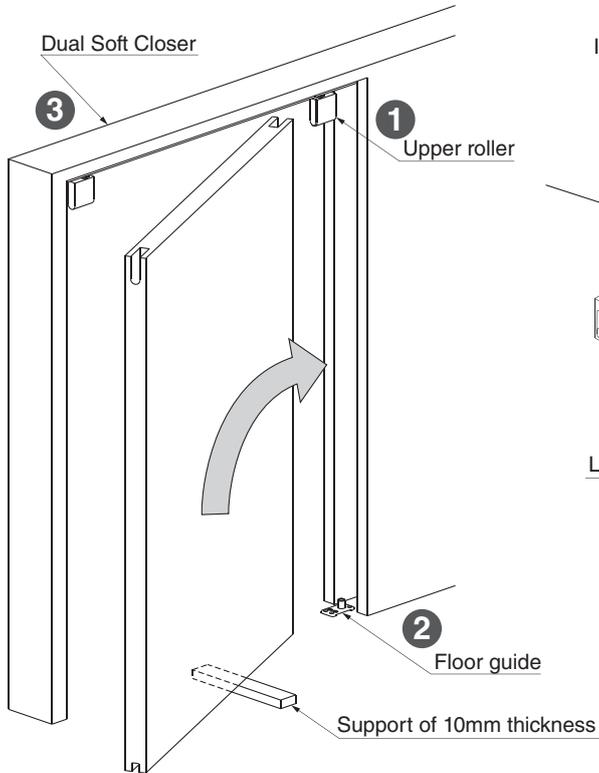
ⓘ After fixing the rail, move rollers and check if there's any misalignment or gap between the rails.

9 INSTALLING FLOOR GUIDE

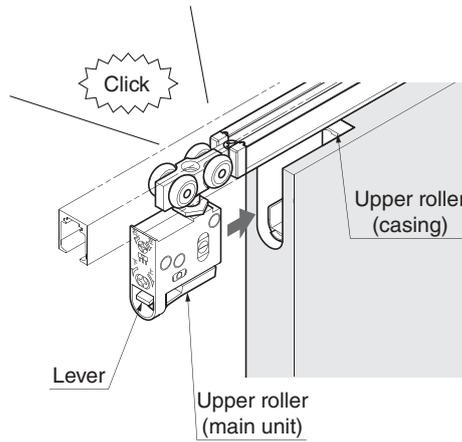
Position the center of Floor guide just vertically under the position of the rail. Fix Floor guide at the position as shown in the figure below.



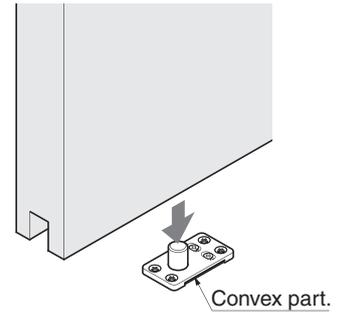
10 HANGING DOOR



Insert the roller until a click sound is heard.



Insert the convex part of Floor guide in the groove, and then hang the door.



Confirm that upper roller main unit is not dislocated from casing, for both door head and door tail sides.

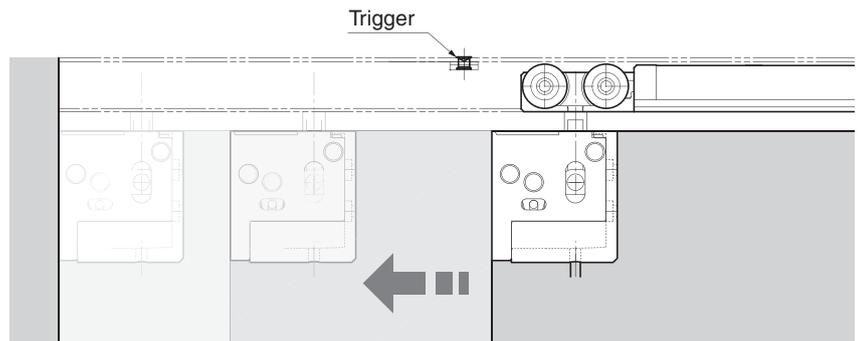
11 CONFIRMATION OF SLIDING DOOR CLOSER OPERATION

Remove the support under the door. Slowly move the door toward door head, and confirm that sliding door closer starts its function at approx. 100mm before full-close position.

Also, confirm that the door tail vertical frame closer starts its function at approx. 50mm before full-close position.

If the closer is not working correctly, check the Troubleshooting section.

Do not close the door with excessive force. It may cause damage or malfunction of soft close mechanism.



12 ADJUSTING DOOR POSITION

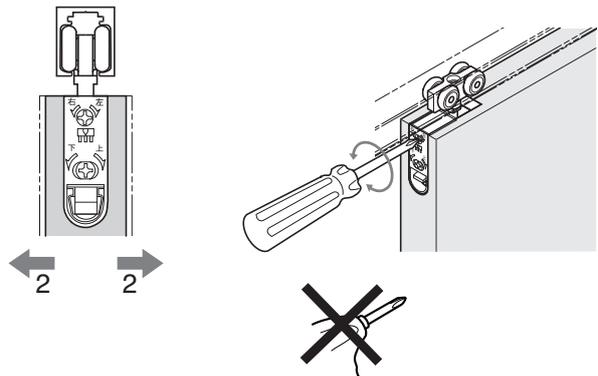
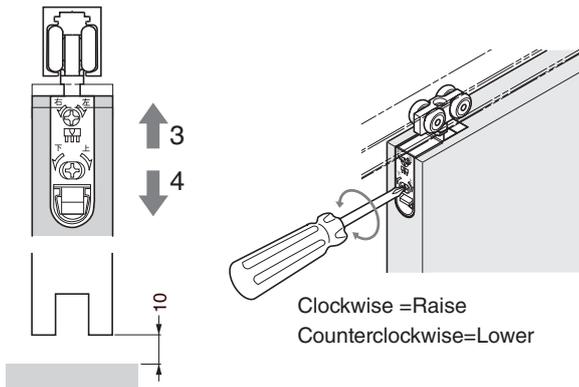
Adjust door such that door is parallel to upper rail with 10mm clearance between door and floor.

Do not turn adjustment screw more than adjustment range.

To avoid damage on the adjustment screw do not use motor screw driver.

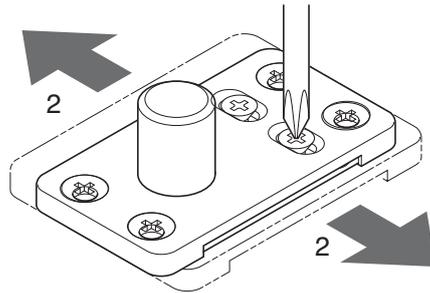
Vertical adjustment range: 7mm

Right-to-left adjustment range: ± 2 mm



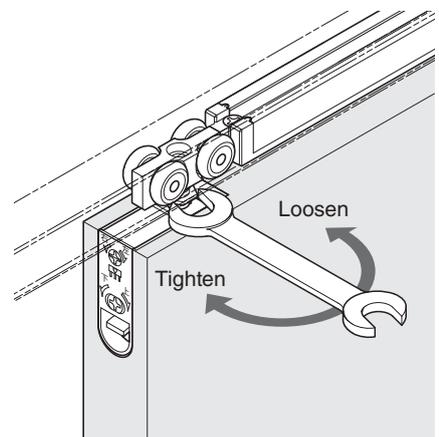
13 ADJUSTING FLOOR GUIDE (ADJUST RANGE: 4mm)

Slowly close and open the door.
If door is not moved smoothly, it is necessary to make left-to-right adjustment for floor guide and door.



14 FIXING JUMP PREVENTION NUT

With spanner 12, tighten dual soft closer and upper roller jump protect nuts until they will contact to main unit.
Push in cover cap between door and upper roller.

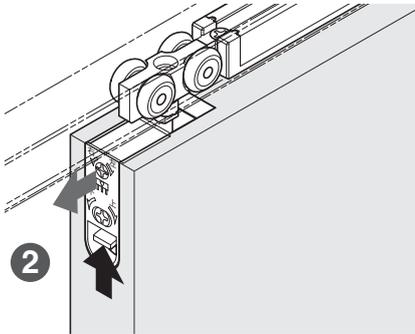


Final confirmation Confirm that all screws are securely tightened. And, confirm that all screws are used without mistake.

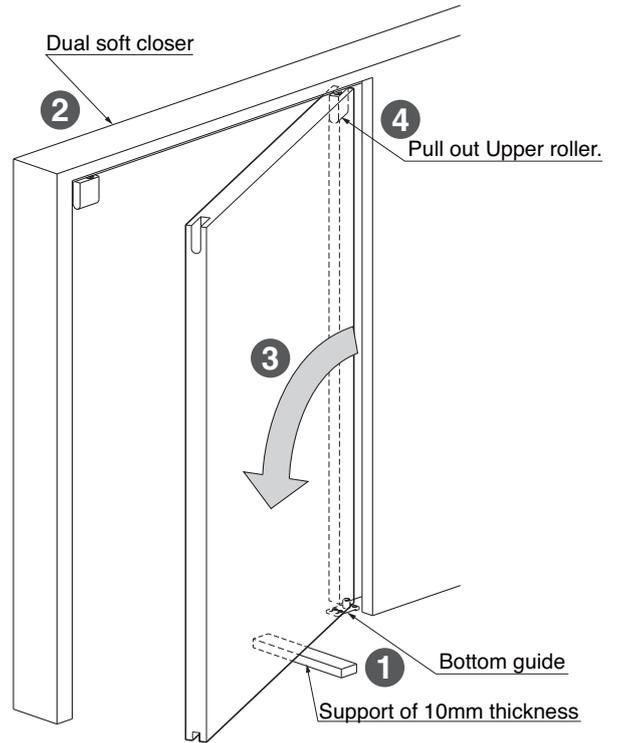
SUPPLEMENT 1 HOW TO REMOVE DOOR, RAIL

[1] HOW TO REMOVE DOOR

- 1 Put a support of 10mm thickness under the door.
- 2 Pull out the upper roller (main unit) from the casing, while pushing the lever on the upper roller.
- 3 Pull out the door, while taking care of scratching with the door pocket.
- 4 Pull out the upper roller on the trailing edge from the casing.



! Be careful so the door does not fall down.

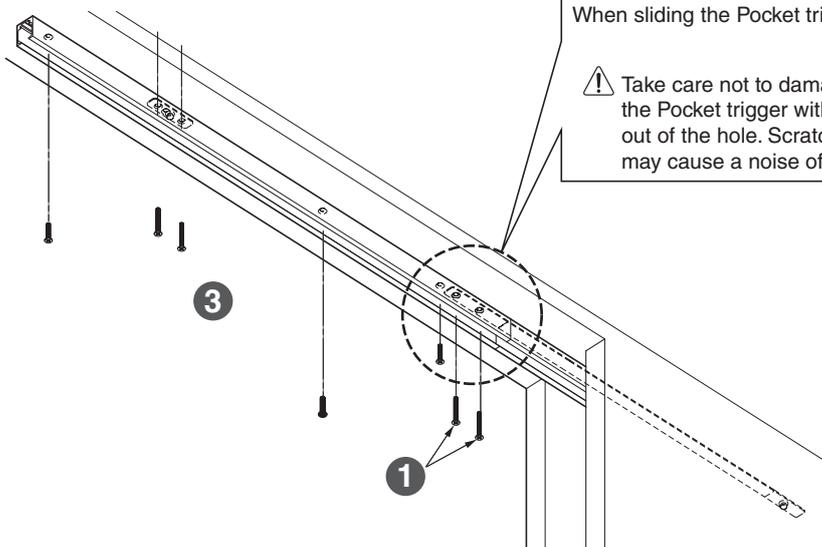
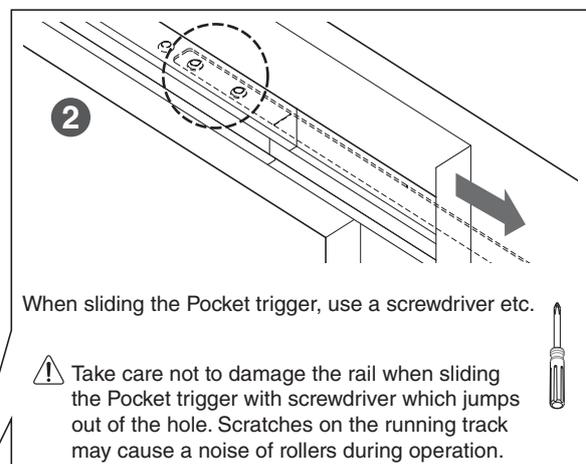


[2] HOW TO REMOVE UPPER RAIL

- 1 Remove the screws on the Pocket trigger.
- 2 Slide the Pocket trigger into the Door pocket rail.
- 3 Remove the Open area-rail.

! If you try to remove the Open area rail without sliding the Pocket trigger into the Door pocket rail, the trigger can become deformed.

Hold the Open area rail when removing the last screw.

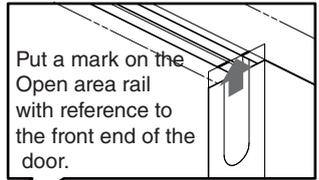
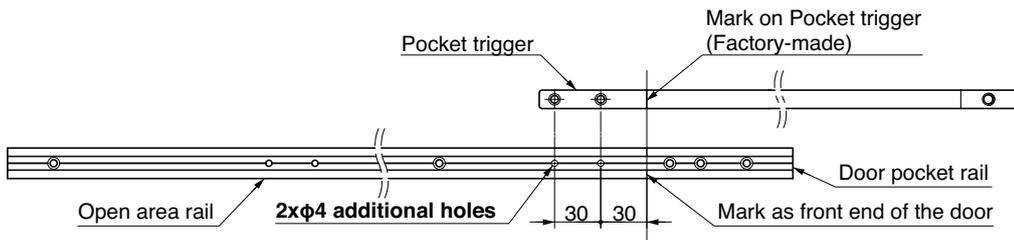


SUPPLEMENT 2 HOW TO SHIFT THE CONNECTING POSITION OF THE RAILS.

You may shift the connecting position towards Door pocket. In this case, you need to shift the position of the Pocket trigger as well.

[1] WHEN DETERMINING TRIGGER POSITION ON SITE

- (1) Put a mark on the Open area rail with reference to the front end of the door at full opened position.
(We recommend to put the mark on a masking tape.)
 - (2) Drill additional holes for pocket trigger.
Remove the door according to the procedure - Supplement 1: How to remove door, then remove the Open area rail.
- Drill additional holes for Trigger on the Open area rail.
Determine the hole position by aligning the mark on the trigger and the mark on the rail which has been done by above procedure [1] -(1), while referring to below drawing.

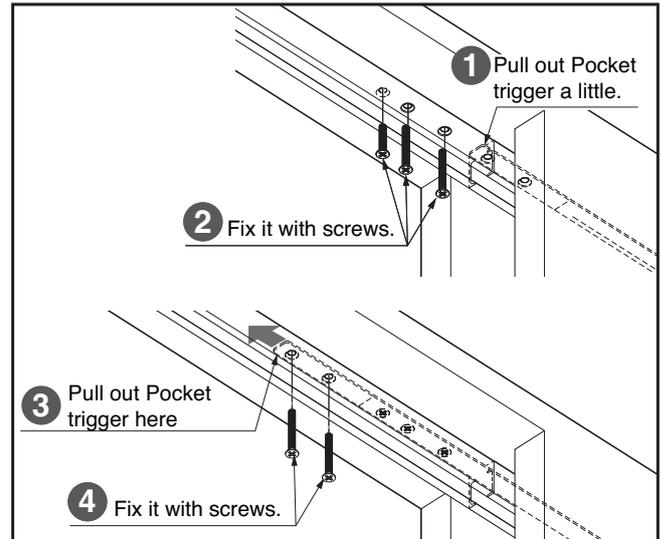


Put a mark on the Open area rail with reference to the front end of the door.

When putting a mark, the door must be at fully opened position.

- (3) Fixing Open area rail
Follow the right below figure, since the working sequence is different from regular process.
- (4) Hanging door
Refer to the procedures [2] and following procedures on page 2.

Working sequence for fixing Open area rail

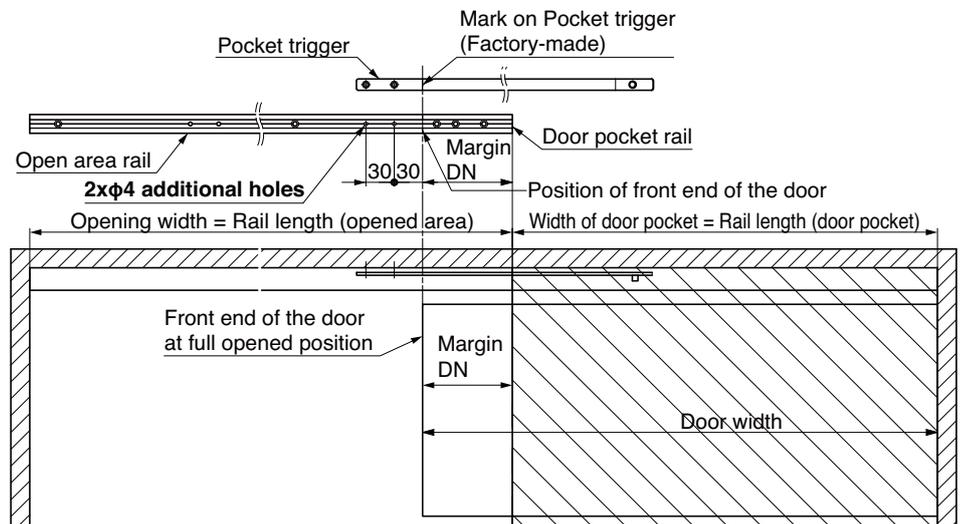


[2] HOW TO PROCESS HOLES FOR POCKET TRIGGER IN ADVANCE

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

Drill holes for Pocket trigger according to below drawing.

When fixing Open area rail, follow the right above figure, since the working sequence is different from regular process.



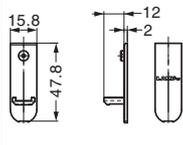
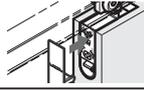
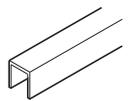
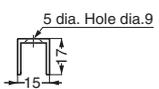
PERIODICAL INSPECTION

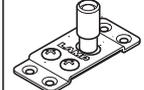
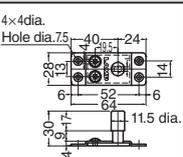
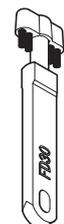
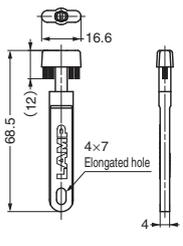
- Clean inside of rail.
- Check upper space and lower space of the door. If necessary, correct the space.

TROUBLESHOOTING

Trouble	Check Point	Solution
Door stops during soft closing	Check if door bottom contacts with floor.	Confirm that rail fixing screws are not loosened. Then, adjust door height such that clearance between door bottom and floor becomes 10 mm.
No soft closing	Check if door stops before door stopper.	Close the door completely. This will reset the function.
	Check if trigger is installed.	Install the trigger to correct position.
	Check if door is closed with excessive force.	Do not close the door with excessive force. It prevents suitable function causing trouble. Use normal operating force.
	Check if hook lock is used.	Depending upon specification of hook lock, soft close cannot made sufficiently. Please contact us.
Abnormal noise during operation	Check if door contacts to other parts.	Provide necessary space between door and adjacent objects.
	Check inside of upper rail for existence of foreign matter such as aluminum dust.	Remove dust or foreign matter.
	Check rail rollers for existence of dust or aluminum powder.	Remove the rail and pull out the roller. Then, clean the roller.
	Check for loose screws retaining the upper rail.	Tighten the screw.
Heavy door operation	Check if door contacts to other parts.	Provide necessary space between door and adjacent objects.
	Check if door is warped.	Use the door without warp.
Door does not move.	Check rail retaining screws for looseness.	Tighten the screw.
Door starts to move.	Check the upper rail if it is set horizontally.	Using a level gauge, reset upper rail horizontally.
Door stops or caught during operation.	Check if any gap or misalignment between the rails.	Correct the misalignment or gap.

OPTIONAL PARTS (SOLD SEPARATELY)

No.	Part Name	Dimensional Drawing	Specifications
1	Face cap for upper roller 		Cap for upper roller Resin part:White Order code:250-018-785 Part No.:FD30-WRH-CP-WT Resin part:Light brown Order code:250-017-138 Part No.:FD30-WRH-CP Resin part:Dark brown Order code:250-018-786 Part No.:FD30-WRH-CP-DB ● Material Polypropylene ● Color White,Light brown,Dark brown 
2	Embed guide rail under door 		Rail for embed Length:1000mm Order code:250-021-996 Part No.:FD30-HBRT1000SIL Length:1500mm Order code:250-019-971 Part No.:FD30-HBRT1500SIL ● Material/Finish Aluminum alloy/Silver

No.	Part Name	Dimensional Drawing	Specifications
3	For lower guide roller (long shaft) 		Used when more space is needed under door Order code:250-024-547 Part No.:FD30-HBGH ● Material Stainless steel / Polyacetal ● Finish Barrel polishing Accessory screw: Phillips head tapping screw (pan head) 3.5x30, 4 screws(Stainless steel).
4	Cleaner for upper rail 		Brush to clean the chips in the rail Order code: 250-025-992 Part No. FD30-TRC ● Material Polypropylene / Polyamide ● Color Orange

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