

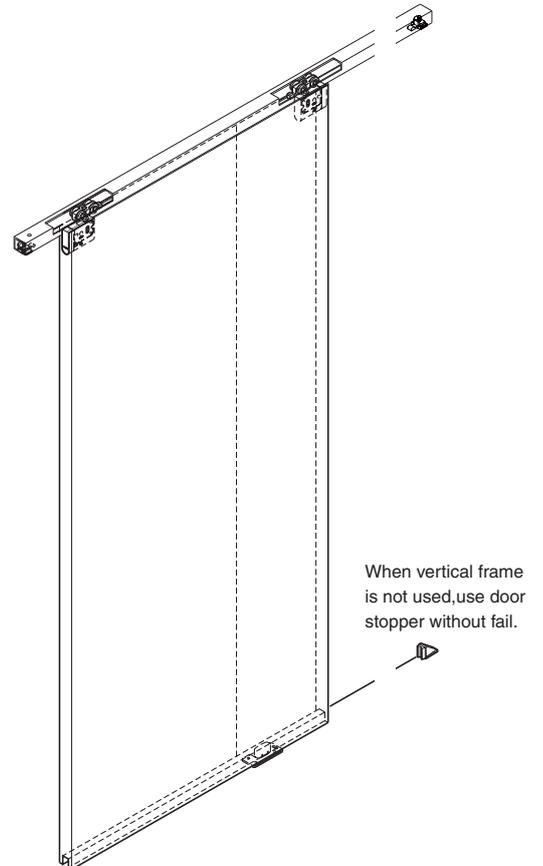
Thank you for selecting our product. Before starting installation, please read this manual thoroughly to ensure correct installation. Please keep this manual at hand for future reference.

ABOUT THE PRODUCT

- This product is parts set for sliding door system for indoor use.
- Easy door installation and adjustment.

SPECIFICATIONS

Max.Door width	1500mm
Max.Door height	2400mm
Min.Door thickness	24mm
Max.Door weight	50kg / door
Height adjustable range	3mm upward, 4mm downward
Forward / backward adjustment	±2mm



FOR YOUR SAFETY WORK AND OPERATION

- ⊘ This symbol denotes prohibited action.
- ⚠ This symbol denotes what must be done.

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

- ⚠ 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.
- ⚠ 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. A frame with poor strength 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 other than originally intended for. Do not use the parts for applications that are out of specification.
- ⊘ Do not disassemble nor modify any parts than those described in this document.

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

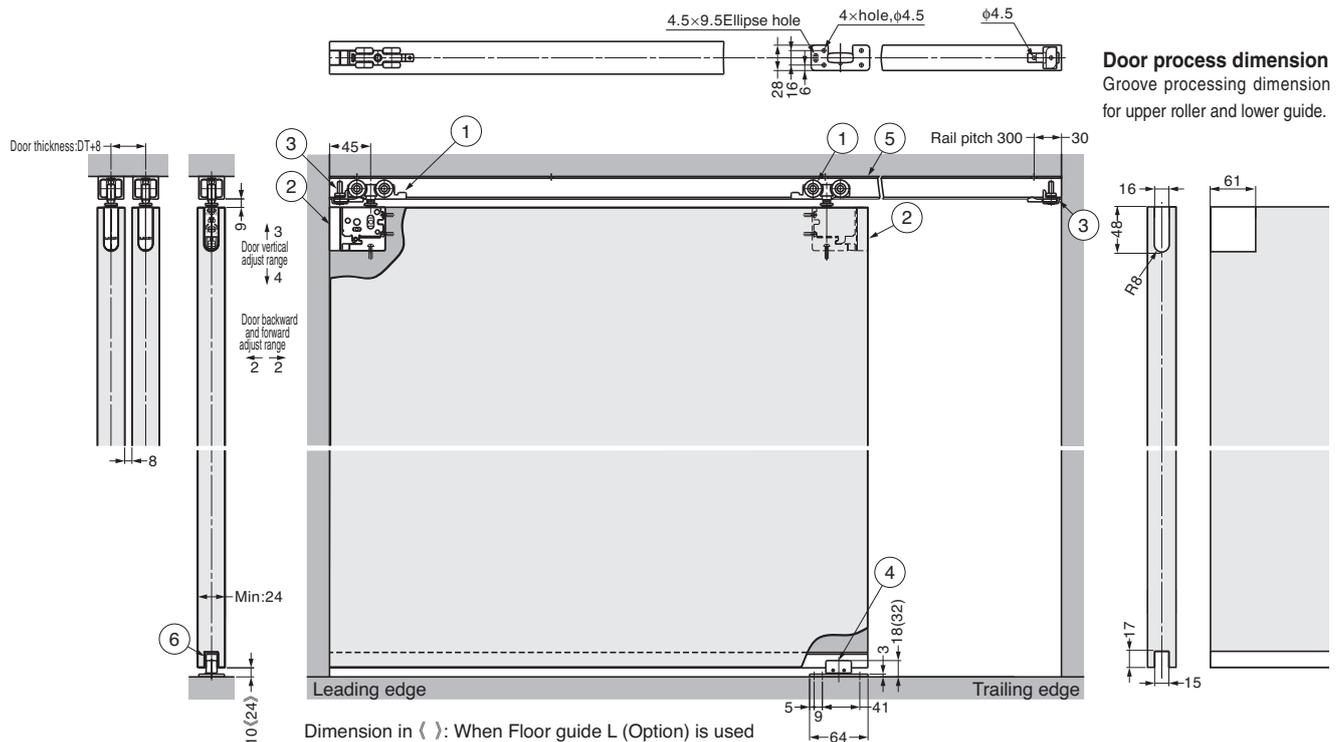
- ⚠ Make sure to follow the designated measurements and specifications as well as horizontal and verticals angles. Make sure that the frame is not warped, since it may affect the movement of the door.
- ⚠ If cutting any parts, make sure to remove any burr before installation. Also check the upper rail for any left-over burr or scrap and remove these.
- ⚠ This sliding door system is a part for architectural fittings. After installation, make sure to test the finished product thoroughly to ensure that it is well-functioning and safe.
- ⚠ 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).

COMPONENT PARTS

No	①	②	③	④	⑤	⑥
Name	Upper roller(recessed)	Cover cap	Upper stopper	Floor guide S	Upper rail	Door bottom guide rail
Item No.	FD50-WRH	FD50-WRH-SCP	FD50-HTST	FD50-BG18	FD50-TRM	FD30-HBRT1500SIL
Item	 Accessory screw: Pan head tapping screw 3.8x40 3pcs			 Accessory screw: Bind head tapping screw 4x16 5pcs	(various sizes) Hole pitch : 300mm Pitch end : 30mm Accessory screw: Pan head tapping screw 3.8x40	 1500mm Hole pitch : 250mm Pitch end : 30mm Recommended screw: Countersunk head tapping screw 4x20
Single sliding		2pcs	2pcs	2pcs	1pc	1pc
Double sliding		4pcs	4pcs	4pcs	2pcs	2pcs
In line sliding		4pcs	4pcs	4pcs	2pcs	2pcs

OPTIONAL PARTS	No	⑦	⑧	⑨
	Name	Door stopper (floor mount)	Floor guide L	Spanner
	Item No.	FD30-HTKY	FD50-BG32	FD30-FSP
	Item	 Accessory screw: Bind head tapping screw 4x30 3pcs	 Accessory screw: Pan head tapping screw 4x16 5pcs	

INSTALLATION DRAWING (EXAMPLE)

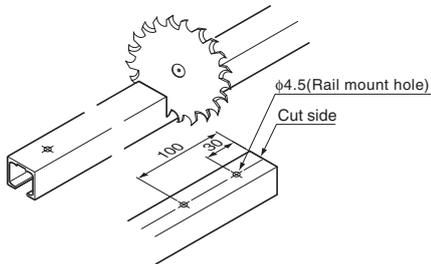


1 PREPARATION AND INSTALLATION

1. Cutting upper rail

Cut it to suitable length.
Refer to the illustration below for detail.

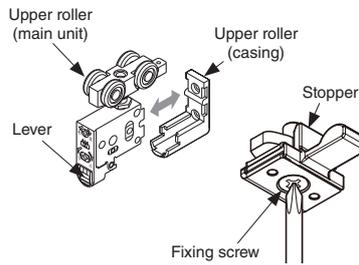
⚠ When cutting, use reinforcer for the rail to prevent deformation at cut section.



When length from cut face to installation hole is more than 100mm, provide 4.5mm dia. hole at 30mm from cut face.

2. Preparation of mounting parts

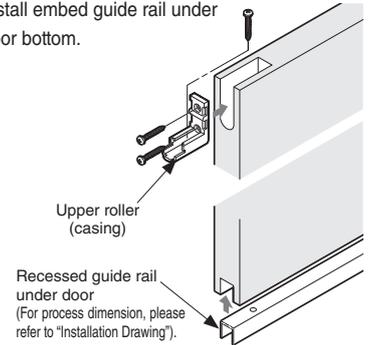
Pull up lever to separate main unit from casing.
Loosen fixing screw on stopper.



3. Installing casing and embed guide rail (door bottom)

Firmly insert upper roller casing into the place as shown, fix it with attached screws.

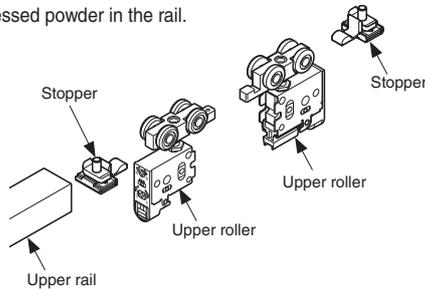
Install embed guide rail under door bottom.



4. Assembly of parts

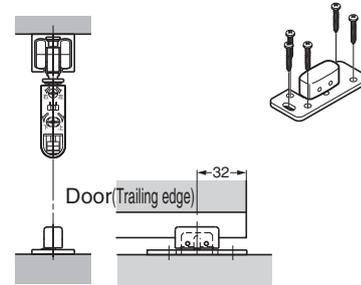
Assemble parts, in order of stopper, upper roller, and stopper, taking care for part direction.

⚠ Remove all processed powder in the rail.



5. Floor guide

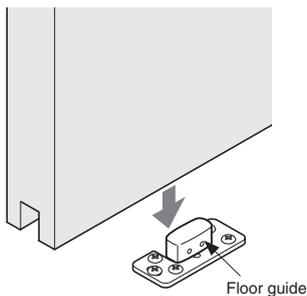
Install the floor guide so that it remains between the leading and trailing edges of the door when it is opened or closed.



2 HANGING THE DOOR AND ADJUSTMENT

1. Door installation (bottom)

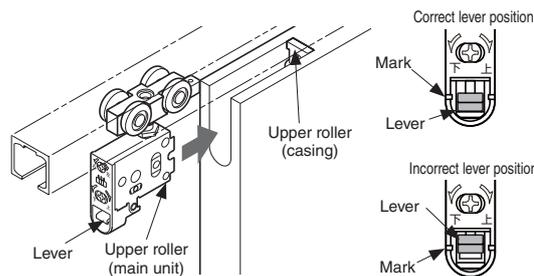
Put a 10mm support under the door.
Insert the floor guide in the groove, and then hang the door.



2. Door installation (upper)

Insert upper roller main unit into door side casing, and push in lower end of upper roller until "click" sound is heard. Confirm that the lever is positioned at the mark on upper roller (main unit), as shown.

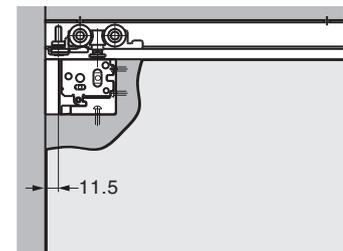
⚠ Ensure that roller main unit is securely attached to the casing.



3. Fixing upper stopper position

Install the parts so that the distance between vertical frame and the center of stopper fix screw becomes 11.5mm.

No clearance is given between door end grain and vertical frame. If necessary, adjust by moving position of upper stopper.



4. Door adjustment

By upper roller, vertical and forward / backward door adjustment can be made. Refer to the illustration below, for detail.

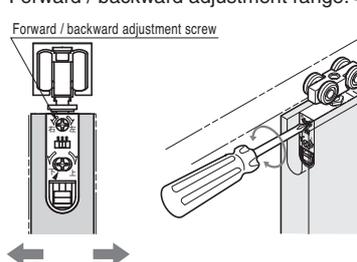
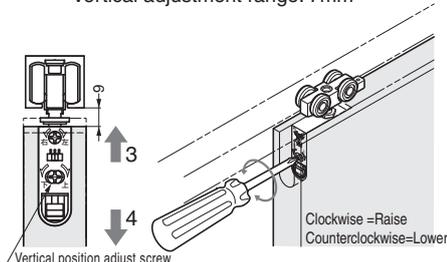
⊘ Do not turn adjustment screw more than adjustment range.

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

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

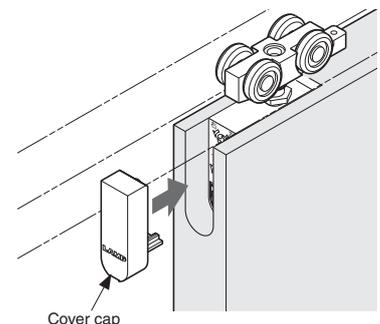
Vertical adjustment range: 7mm

Forward / backward adjustment range: 4mm



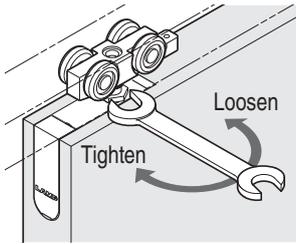
5. Installing cover cap

Push in cover cap between door end and upper roller.

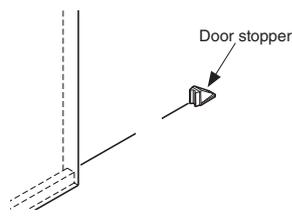


6. Fixing jump prevention nut

Tighten upper roller jump-up prevention nut with spanner 12.

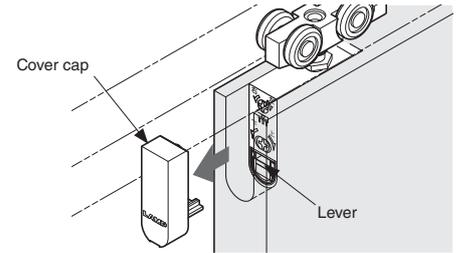


When door is not stopped by vertical frame, install door stopper without fail. In this case, use door stopper (Option 2)



Removing door

When removing door, use 10mm support under the door. Then, remove cover cap and pull off the upper roller main unit from the door door while raising the lever.



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

PERIODICAL INSPECTION

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

TROUBLESHOOTING

Trouble	Check	Solution
Abnormal noise during operation	Check if door touches adjacent parts.	Provide necessary space between door and adjacent objects.
	Check rail rollers for aluminum dust.	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 bottom touches the floor.	Confirm that screws are not loosened. And, adjust door height. Adjust the clearance between door bottom and floor to 10mm.
	Check if door touches adjacent parts.	Correct door position to avoid contact to other objects. Adjust position of floor guide or stopper.
	Check if door is warped.	Use the door without warp.
Door does not move.	Check rail retaining screws for looseness.	Roller touches the screw. Retighten screws to free the roller.
Door starts to move.	Check if the upper rail is set horizontally.	Using a level gauge, reset upper rail horizontally.

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