

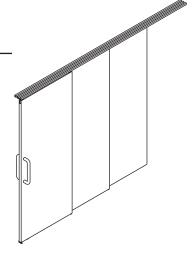
LAMP FD30EX /50 HRP SLIDING DOOR SYSTEM Installation Manual (Multiple Synchronized Sliding Door)

Part No. FD30EXHRP-2 FD30EXHRP-3 FD50HRP-2 FD50HRP-3

Thank you for selecting 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 product is a parts set for an indoor synchronized sliding door system. The door closes in 2 soft motion steps; first slow, then fast, and opens with a 1 step soft motion.
- Easy door installation and adjustment.



SPECIFICATIONS

	Effective open width (RO)	Door width	Middle door width	Last door width	Max. Door height (DH)		Max. Door weight		Front-rear adjustment
FD30EX	1020-1840 mm with no margin (DN)	590-		510					
2 doors synchronized	940-1760 mm with 80 mm of margin (DN)	1000		-1000 mm			30 kg		
FD30EX	1530-2760 mm with no margin (DN)	mm 510-1000 mm		12400 mm l		J SU KY	- 7 mm	4 mm	
3 doors synchronized	1290-2680 mm with 80 mm of margin (DN)				30 -				
FD50	1200-2240 mm with no margin (DN)	·			38mm	50 kg			
2 doors synchronized	1120-2160 mm with 80 mm of margin (DN)	680-1200 mm							
FD50	1800-3360 mm with no margin (DN)								
3 doors synchronized	1720-3280 mm with 80 mm of margin (DN)								

FOR YOUR SAFE WORK AND CORRECT INSTALLATION

Meaning of symbols







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

2 Caution: If not followed injury or damage may result.

- Pollow 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).



COMPONENT PARTS (FD30EX)

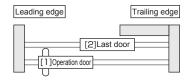
No.	①	(2)	3	4	(5)	6	7	8	9	(10)
Name	End stopper	Door guide (door mount)	Door guide wall mount)	Block for bottom guide	Guide track	Bumper block	Soft closer (two-way) ※ 1	Soft closer (one-way)	Upper roller	Trigger ※ 1
Item No.	FD30-HRGU	FD30-HRDG	FD30-HBGF	FD30-HRDB	FD30-HBDR1000	FD30-HBB	FD30EX-WRH-DSC	FD30EX-WRH-SC	FD30-WRH-N	Included in ⑦
Item		60					tapping screws	tapping screws	Cross recessed pan head tapping screws 3.5×303 ea.	Trigger Jig
2 doors synchronized	L/R 1 ea	1 pc	1 pc	1 pc	2 pcs	1 pc	1 pc	1 pc	2 pcs	2 pcs / 1 pc
3 doors synchronized	L/R 2 ea	2 pcs	1 pc	1 pc	3 pcs	2 pcs	1 pc	2 pcs	3 pcs	3 pcs / 1 pc

No.	(1	2)	
Name	Upper track (surface mount)	Upper track (recessed mounted)	
Item No.	FD30-TRM	FD30-TRH	
	4	3	
Item	1820mm - 4000mm Hole pitch : 300 Pitch end : 30mm Recommended screw : Countersunk head tapping screws 3.5×20		
2 doors synchronized	Use 2 (surface mounted or recessed)		
3 doors synchronized	Use 3 (surface mo	unted or recessed)	

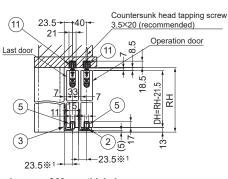
	No.	(12)	(13)	14	(15)	16
	Name	Cover cap	Door stopper (floor)	Floor guide	Bottom guide	Spanner
	Item No.	FD30-WRH-CP	FD30-HTKY	FD30-HBG	FD30-HTF	FD30-FSP
Optional Parts	Item					

INSTALLATION DRAWING (EXAMPLE: FD30EX)

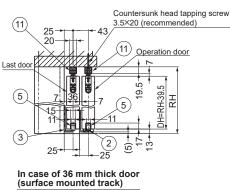
2 doors synchronized



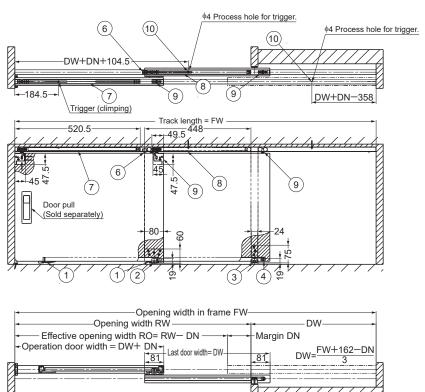
②③ (see section 9).



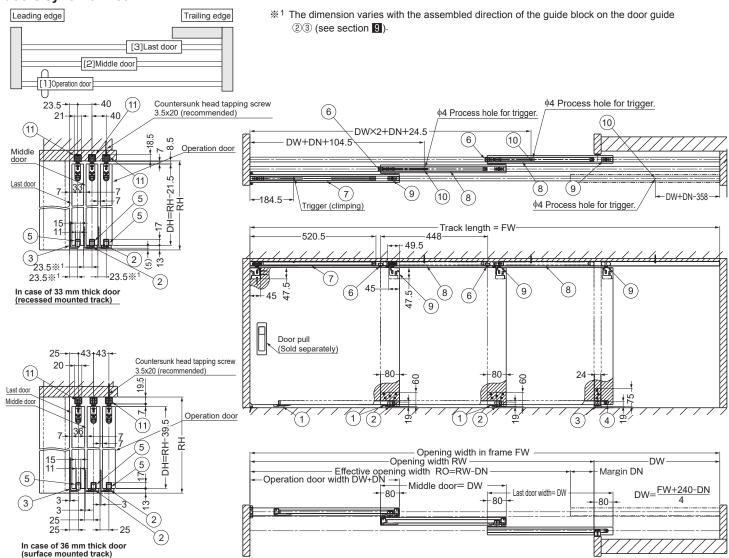
In case of 33 mm thick door (recessed mounted track)



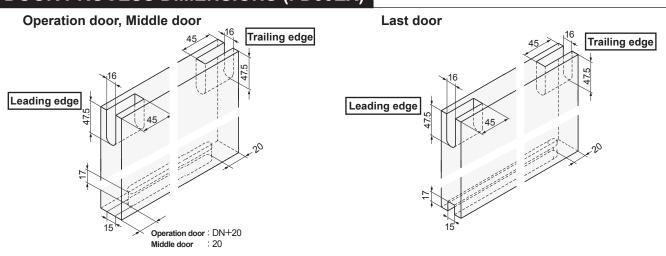
Opening width in frame FW--Opening width RW Effective opening width RO= RW- DN Operation door width = DW+ DN 81



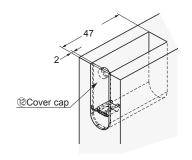
3 doors synchronized



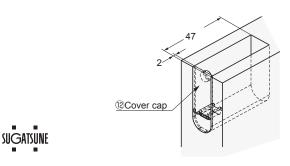
DOOR PROCESS DIMENSIONS (FD30EX)



When using cover cap



When using cover cap



COMPONENT PARTS (FD50)

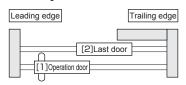
No.	①	2	3	4)	(5)	6	7	9	(10)
Name	End stopper	Door guide (door mount)	Door guide (wall mount)	Block for bottom guide	Recessed guide track under door	Stopper block	Soft closer (two-way)※1	Upper roller	Trigger ※ 1
Item No.	FD30-HRGU	FD30-HRDG	FD30-HBGF	FD30-HRDB	FD30-HBRT1500SIL	FD50-HSB	FD50-WRH-DSC	FD50-WRH	included in ⑦
ltem		000			Hole pitch: 250 mm Pitch end : 30 mm Recommended screw: Countersunk head tapping screw 4×20		Flat fillister head tapping screw 3.8×40······3pcs		Trigger (Trigger Jig) Countersunk \$6\$ head tapping screw \$4 \times 30 \tag{5}\$.
2 doors synchronized	L/R 1 ea	1 pc	1 pc	1 pc	2 pcs	1 pc	2 pcs	2 pcs	4 pcs / 2 pcs
3 doors synchronized	L/R 2 ea	2 pcs	1 pc	1 pc	3 pcs	2 pcs	3 pcs	3 pcs	6 pcs / 3 pcs

No.	10	(12)
Name	Upper track	Cover cap
Item No.	FD50 TRM	FD50-WRH-C
Item	(various sizes) Hole pitch : 300 mm Pitch end : 30 mm Accessory screw: Flat fillister pan head tapping screw 3.8x40	
2 doors synchronized	2 pcs	4 pcs
3 doors synchronized	3 pcs	6 pcs

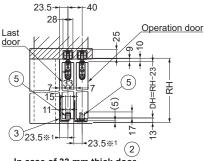
	No.	13	(14)	15	16
	Name	Door stopper (floor)	Floor guide S	Bottom guide	Spanner
	Item No.	FD30-HTKY	FD50-BG18	FD30-HTF	FD30-FSP
Optional Parts	Item				

INSTALLATION DRAWING (EXAMPLE: FD50)

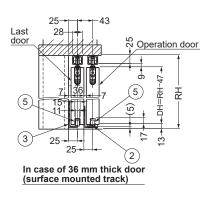
2 doors synchronized

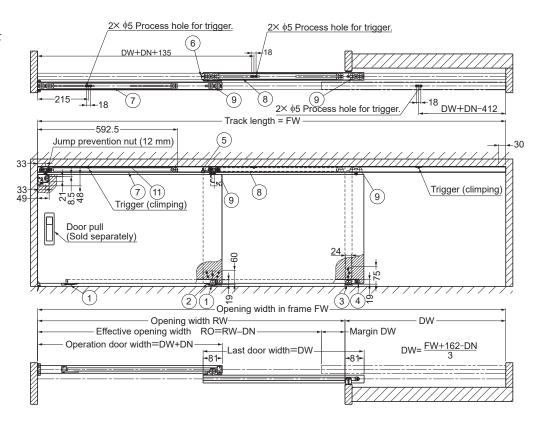


% 1 The dimension varies with the assembled direction of the guide block on the door guide 23 (see section 9).



In case of 33 mm thick door (recessed mounted track)

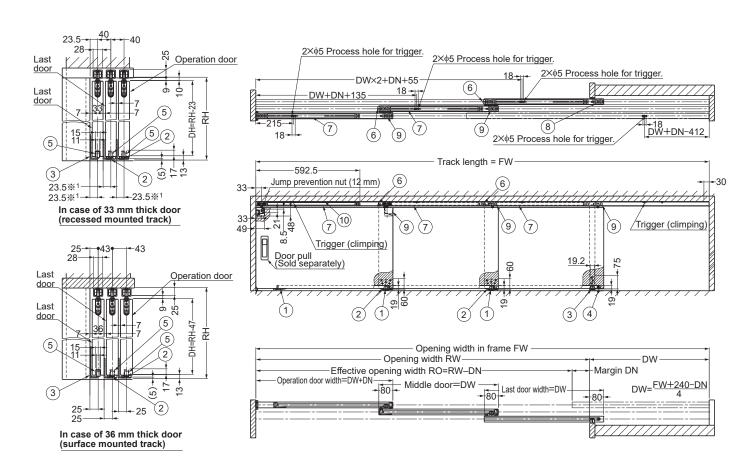




3 doors synchronized

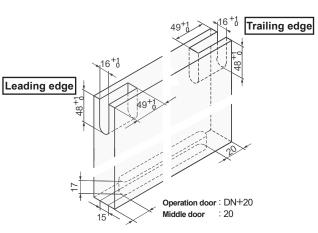


**1 The dimension varies with the assembled direction of the guide block on the door guide
②③ (see section ⑤).

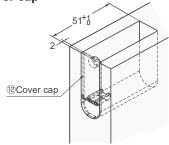


DOOR PROCESS DIMENSIONS (FD50)

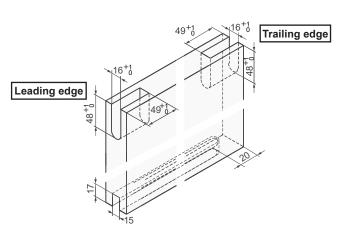
Operation door, Middle door



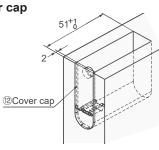
When using cover cap



Last door

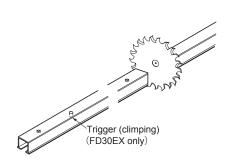


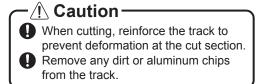
When using cover cap





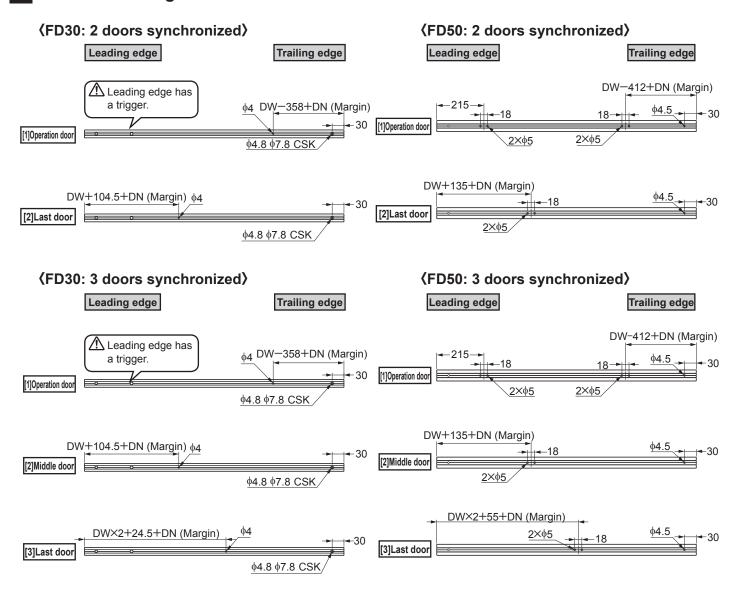
1 Cutting and Providing Hole on Upper Track





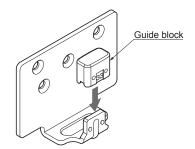
For FD30EX, do not cut the track on the side with trigger.

2 Hole Processing on Tracks

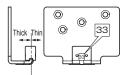


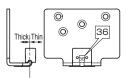
3 Assembly of Door Guide

Turn the direction of the guide block according to door thickness.

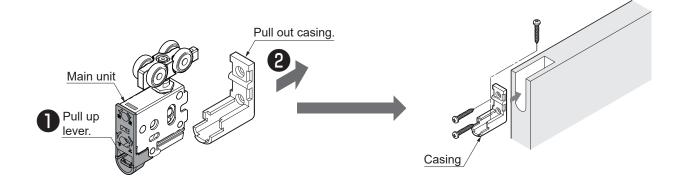


Door thickness	Marking
30-34	33
35-38	36



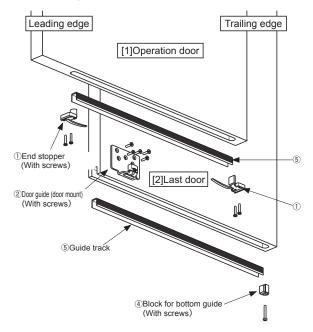


4 Mounting Parts on Door

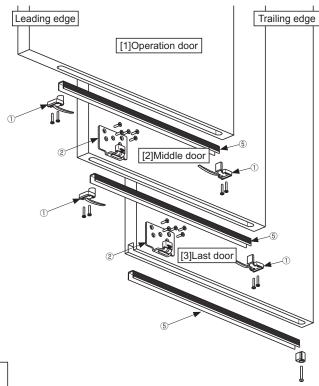


5 Parts Assembly on Doors AFor an opposite handed door, assemble the parts in the mirror opposite position.

(2 doors synchronized)



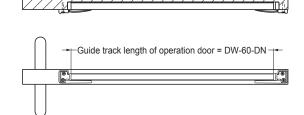
(3 doors synchronized)



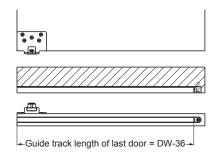
⚠ Please prepare the screws for the guide tracks for FD50. Countersunk head tapping screw 4x20

Take care of the mounting direction of end stoppers ① . Face the strips of the end stoppers to the next door.

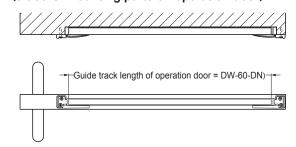
(2 doors: Mounting parts on operation door)



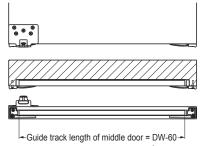
(2 doors: Mounting parts on last door)



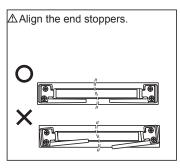
(3 doors: Mounting parts on operation door)

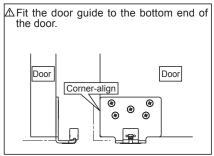


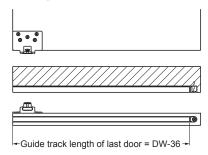
(3 doors: Mounting parts on middle door)



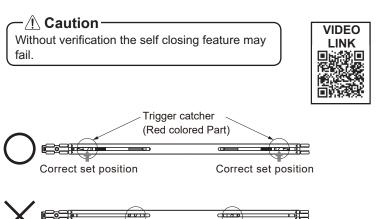
(3 doors: Mounting parts on last door)



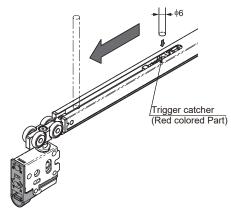




6 Verification Before Installing Soft Closer



Incorrect set position



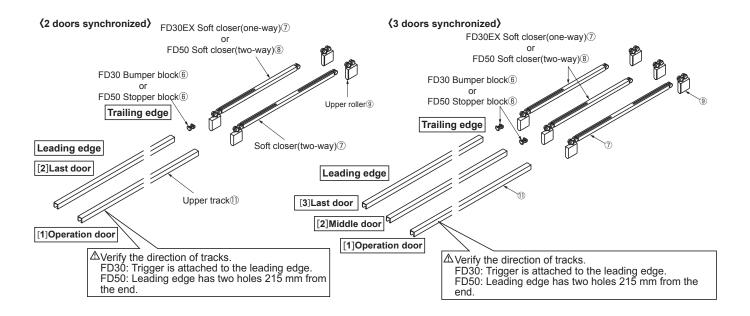
If the position is wrong, pull back the trigger catcher to the correct position using a 6mm diameter hard bar.

7 Inserting Parts into Upper Tracks

Insert the parts in the same order as shown in the figure. Tape around rollers and upper track to prevent inserted parts fromfalling.

⚠Remove any dirt or aluminum chips from the track.

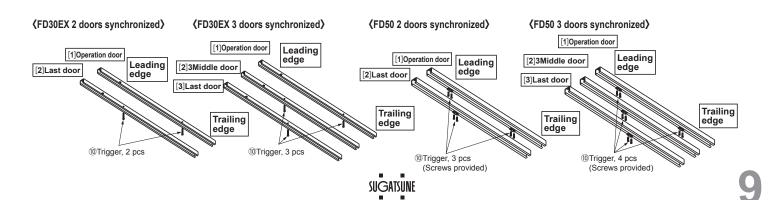
 \triangle For FD30EX, please prepare the screws; Countersunk head tapping screw 3.5 \times 20.



8 Fastening Additional Triggers

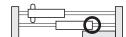
Fix trigger to the hole made during procedure 2.



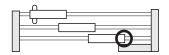


9 Mounting Door Guides

< 2 doors synchronized > Mount the guide to the bottom of last door.

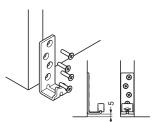


< 3 doors synchronized > Mount the guide to the bottom of last door.



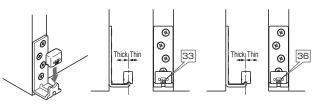
[1] Door guide ③

Fasten the base plate with provided screws.



2 Insert the guide block according to the table and illustration right.

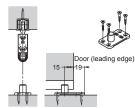
Door thickness	Marking
30 ~ 34	33
35 ~ 38	36



[2] Floor guide (4) (Optional parts)

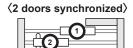
Position floor guide just below the center of upper track.

Position the floor guide so that it stays under the door when it is opened or closed.

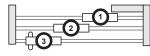


10 Hanging Door

(1) Order of hanging Hang the doors in order from ① to ③.

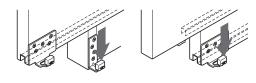


(3 doors synchronized)

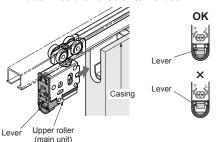


[2] Hanging

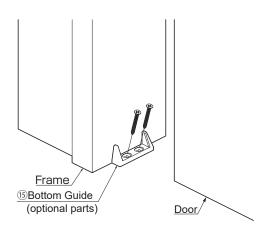
Put a 13 mm support under the door. While holding the door, insert the guide into the groove under the door.



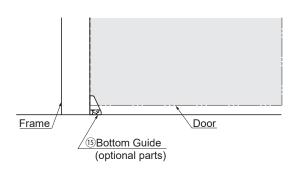
[3] Insert the upper roller into the casing until a click sound is heard. Verify that the main unit is not dislocated from the casing, for both door head and door tail sides.



11 Mounting Bottom Guide (Optional parts)



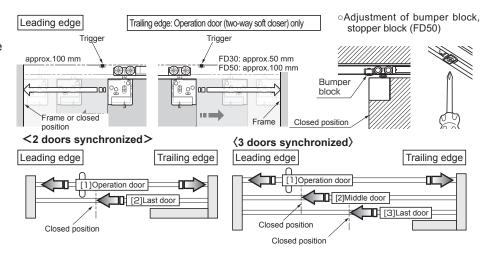
Fit the bottom guide to the closed door, then fasten it with provided screws.





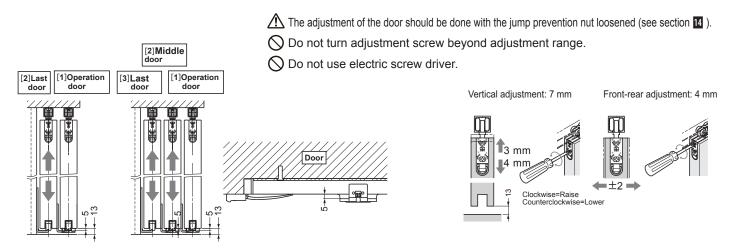
12 Verification of Soft Closer Operation

- [1] Remove the 13 mm support from under the door.
- [2] Close the door slowly and check that the soft closer works correctly.
- [3] For the operation door, carry out similar verification for the door trailing edge.
- [4] Please refer to the "Troubleshooting" section when the soft closer does not work correctly.
- [5] If necessary, adjust position of bumper block and stopper block in the track so that the position is realized as shown in "Installation Drawing". Then fix them by tightening them with screws.



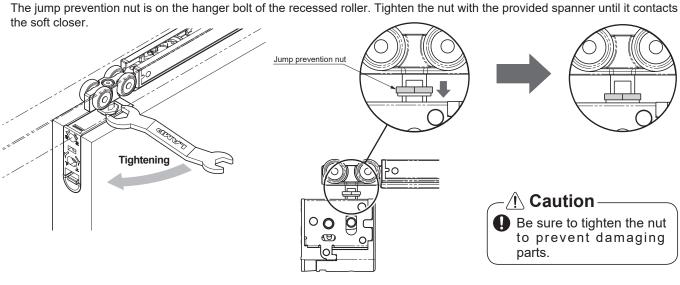
13 Adjusting the Door Position

- [1] Order: [1] Operation door, [2] Middle door, [3] Last door
- [2] [1]: Adjust the door so that it is parallel to the upper track with 6-13 mm of clearance between the door and floor.
- [3] [2], [3]: Adjust the door so that the clearance between the door bottom and door guide will be 5 mm.



After finishing vertical adjustment of door, repeat confirmation of sliding door closer operation (section 12). If the door is not closed completely, the clearance between the door bottom and door guide may be less than 5 mm. In this case, lower the middle door and the last door slightly.

14 Fastening the Jump Prevention Nut

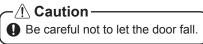


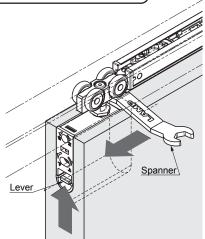
APPENDIX 1 How to Remove Door

Use a 13 mm support under the door.

Then pull out the upper roller main unit from the door while raising the lever.

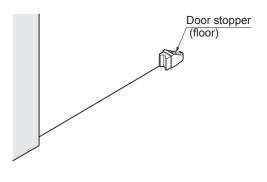
It will be easier if you slide the hanger bolt with a spanner.





APPENDIX 2 When Vertical Frame is not used

When a vertical frame is not used, be sure to use the door stopper (floor).



PERIODICAL INSPECTION

- · Clean inside of track.
- Check upper and lower gaps between the door and frame. If necessary, adjust the gaps.

TROUBLESHOOTING

Trouble	Check Point	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 9-16 mm.
	Check if 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	Check if trigger is installed.	Install trigger to specified position.
softly	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 9 section 7 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 7.
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 9-16 mm.
	Check if door touches adjacent parts.	Adjust the door depth position to avoid contact with other objects or adjust the position of 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 9-16 mm.
	Check if door touches adjacent parts.	Adjust the door depth position to avoid contact with other objects or adjust the position of floor guide.
Door does not move.	Check the track retaining screws for looseness.	Retighten 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.

Phone: +86 20 6639 3552 E-mail:lamp@sugatsune.com.cn

Guangzhou, CHINA

E-mail:lamp@sugatsune.com.cn

Chicago, USA

Phone: +1 630 317 7072 E-mail:sales@sugatsune.com

SUGATSUNE CANADA, INC.

SUGATSUNE AMERICA, INC

Phone: +1 514 312 5267 E-mail:support@sugatsune.ca

SUGATSUNE EUROPE GmbH SUGATSUNE KOGYO INDIA PRIVATE LIMITED Düsseldorf, GERMANY
Phone: +49 211 53812900 E-mail:sales@sugatsune.eu

Mumbai, INDIA
Phone: +91 22 28314490/91 E-mail:sales@sugatsune.in ISO9001(Japan Offices and Sugatsune America) and ISO14001(Chiba Production division and Logistics center), certified.

2022.12 1302-3