

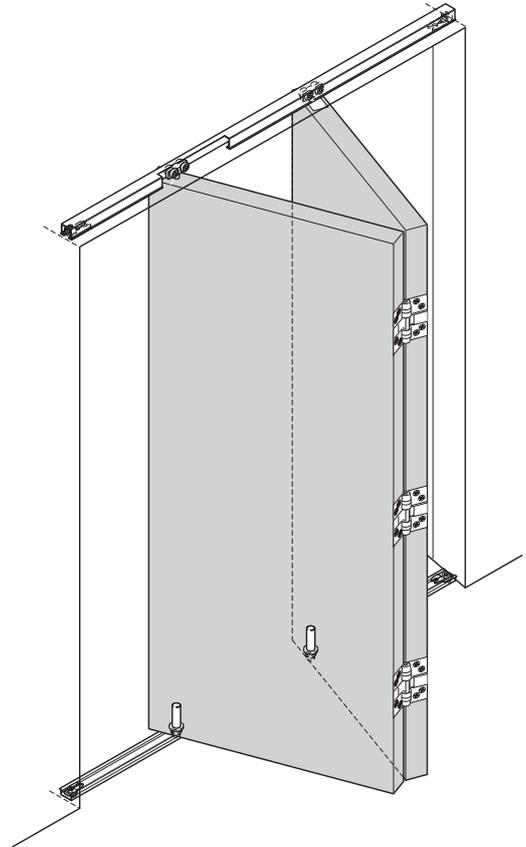
Thank you for selecting our product. Before starting installation, please read this manual thoroughly to ensure correct installation. Please keep this manual at hand for future reference.

ABOUT THE PRODUCT

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

SPECIFICATION

Max.Door width	450 mm
Max.Door height	2400 mm
Min.Door thickness	30 mm
Max.Door weight	15 kg / door
Height adjustable range	±4 mm



FOR YOUR SAFE WORK AND CORRECT INSTALLATION

Meaning of symbols

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

- ❗ This (folding 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 track for any left-over burr or scrap and remove these.
- ❗ This folding 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 test the screws for slack at regular intervals (one month from first usage, half year and then one time every year is recommended).
- ⊘ Do not open / close the door with excessive force as this may result in damage.

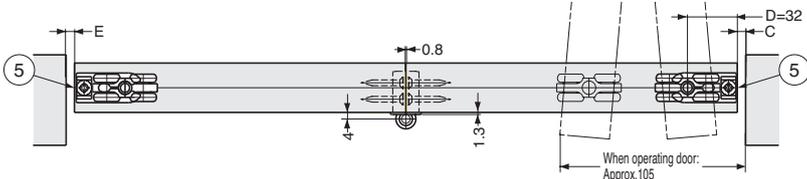
COMPONENT PARTS (PER BOX)

No.	①	②	③	④	⑤	⑥	⑦
Name	Upper Roller (recessed)	Cover cap	Guide pin	Pivot insert jig	Upper stopper	Bottom stopper	Center hinge (Door edge)
Item No.	FD30-WRH	FD30-WRH-CP	FD30-FGR	FD30-FSJ	FD30-FTST 型	FD30-FBKS	FD30-CHK
Item							
Attached screw	Tapping screw 3.5x30 3 screws	—	—	—	—	—	Tapping screw 3.5x25 3 screws
2-door reversible separator	2	2	2	1	2	2	3
4-door reversible separator	4	4	4	1	2	2	6

No.	⑧		⑨	
Name	Track (surface mount)	Track (recessed mount)	Bottom guide track (surface mount)	Bottom guide track (recessed mount)
Item No.	FD30-TRM 型	FD30-TRH 型	FD30-BRM 型	FD30-FDRH 型
Item				
	Hole pitch: 300 mm Pitch: 30 mm		Hole pitch: 300 mm Pitch: 30 mm	
Recommended screw	tapping screw of 3.5x20		Tapping screw 3.5x25	
2-door reversible separator	Use 1 (surface mount or recessed)		Use 1 (surface mount or recessed)	
4-door reversible separator	Use 1 (surface mount or recessed)		Use 1 (surface mount or recessed)	

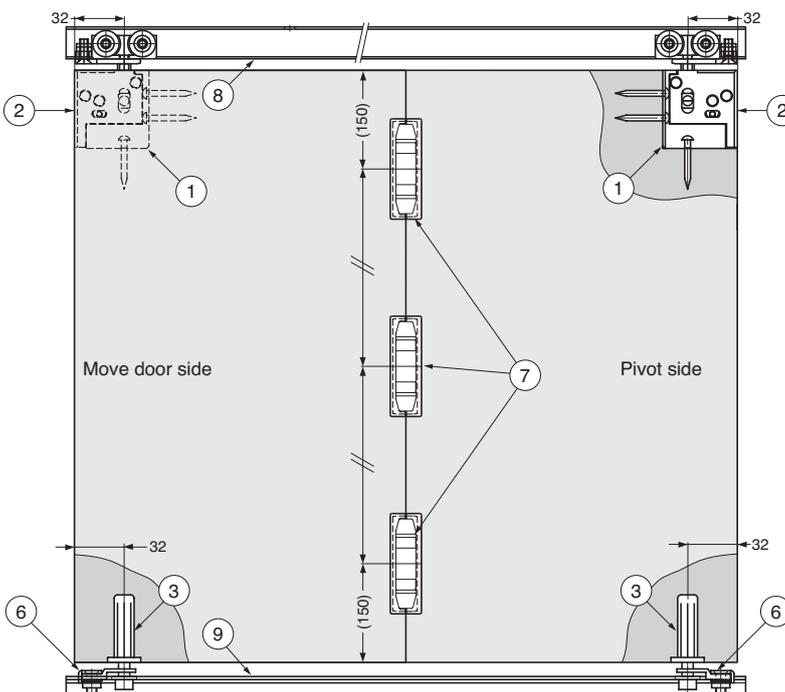
INSTALLATION DRAWING (EXAMPLE)

Door opening (when 40 mm door thickness, 450 mm door width)

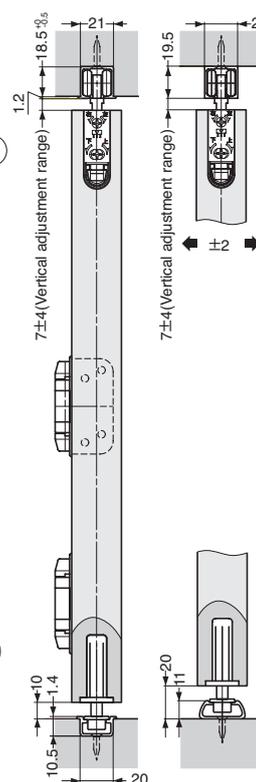


Minimum Dimension between Frame and Door

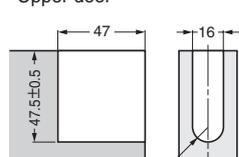
Door thickness	C = Gap	E = Gap			
		Door width 300	Door width 350	Door width 400	Door width 450
30	4.0	3.5	3.0	2.7	2.4
35	5.2	4.3	3.7	3.3	3.0
40	6.5	5.2	4.5	4.0	3.6



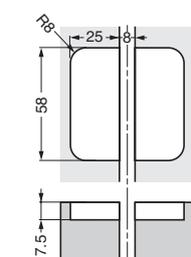
Upper track (Recessed) Upper track (Surface mount)



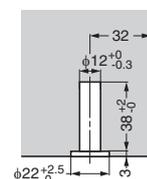
Door processing dimension



Process dimension for hinge



Bottom door



ASSEMBLY

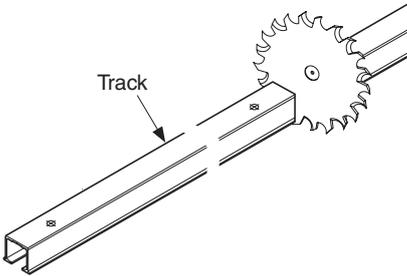
This describes installation of single folding door.

1 Cutting Track

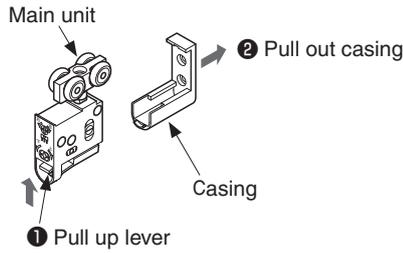
Cut the track applying a reinforcer to prevent deformation of cut section.

⚠ Caution

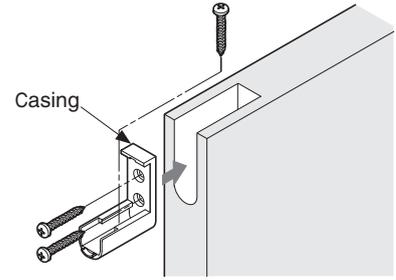
Remove any dirt or chips from the tracks.



2 Removing Casing

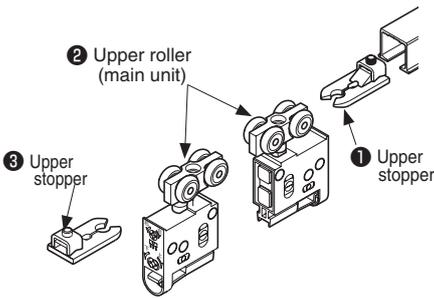


3 Installing Casing

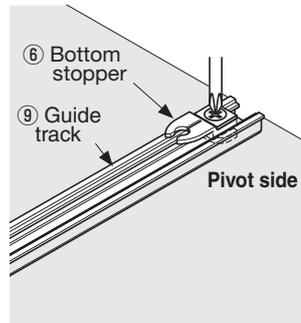


4 Assembly of Parts

Insert the parts ① to ④ with care of direction. Then, fix Upper stoppers, temporarily to prevent drop of inserted parts.

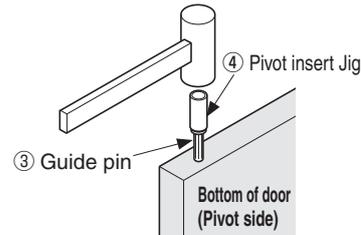


5 Installing Bottom stopper



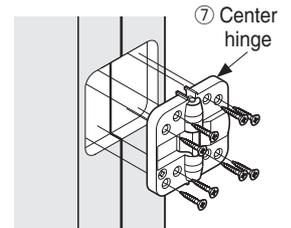
6 Installing Guide Pin

⚠ Caution
Be careful not to damage the plastic part of guide pin.



7 Installing Center hinge

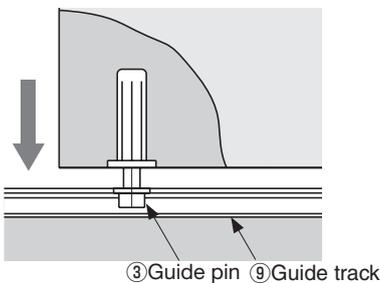
Fix all of Center hinges in a same direction.



8 INSTALLING DOOR

1. Bottom

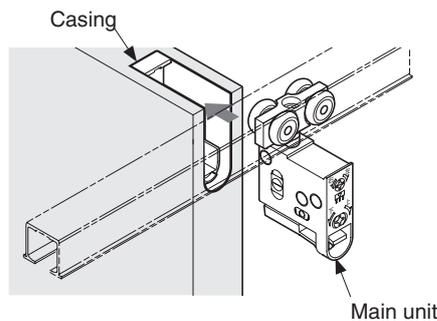
Insert guide pin in guide track groove.



2. Top

Insert upper roller main unit into the casing installed on door until click sound is heard.

⚠ Caution
Confirm that Main unit is not dislocated from Casing

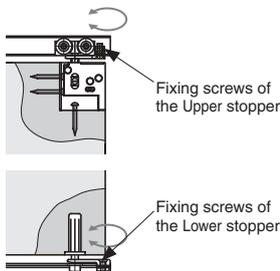


9 Confirmation of Door Movement and Adjustment

Move the door slowly. If the movement is not smooth, adjustment may be needed to correct door position.

1. Adjusting inclination of door

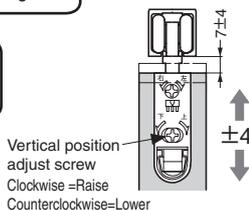
Loosen upper stopper and lower stopper to make the door vertical. Then, retighten screws.



2. Adjusting vertical position (± 4 mm)

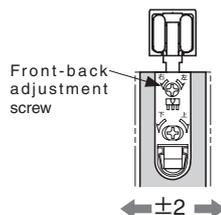
Caution
Do not turn adjustment screw beyond adjustment range.

Caution
Do not use motor screw drivers



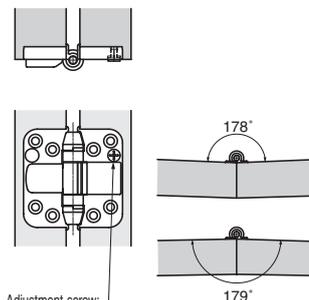
3. Front-back adjustment (± 2 mm)

With Philips screwdriver, adjust the position of upper roller.



4. Adjustment of door angle

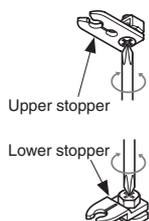
Turn the screw on center hinge.



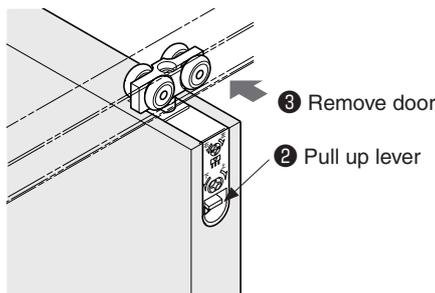
Adjustment screw:
Adjust with the door folded.
Counterclockwise (2 turns MAX.)
Clockwise (1 turns MAX)

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

Supplement How to Remove Door



① Loosen the screws on the Stoppers



PERIODICAL INSPECTION

- Clean inside of track.
- 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 inside of upper track for foreign matter or aluminum dust.	Remove dust or foreign matter.
	Check track rollers for aluminum dust.	Remove the track and pull out the roller. Then, clean the roller.
	Check for loose screws retaining the upper track.	Tighten the screw.
Heavy door operation	Door bottom touches the floor.	Confirm that screws on the tracks are not loosened. And, adjust door height. Adjust the clearance between door bottom and floor to 10 mm. (20 mm : Surface mount type guide track)
	Check if door touches adjacent parts.	Correct door position to avoid contact to other objects. Adjust position of upper and bottom stopper.
	Check if door is warped.	Use the door without warp.
Door does not move.	Check track retaining screws for looseness.	Roller touches the screw. Retighten screws to free the roller.
Door starts to move.	Check if the upper track is set horizontally.	Using a level gauge, reset upper track horizontally.

SUGATSUNE KOGYO CO.,LTD.
Tokyo, JAPAN
Phone: +81 (0)3 3866 2260
E-mail: export@sugatsune.co.jp

SUGATSUNE EUROPE GmbH
Düsseldorf, GERMANY
Phone: +49 211 53812900
E-mail: info@sugatsune.eu

SUGATSUNE SHANGHAI Co., LTD.
Shanghai, CHINA
Phone: +86 21 3632 1858
E-mail: lamp@sugatsune.com.cn

SUGATSUNE AMERICA, INC.
California, USA
Phone: +1 310 329 6373
E-mail: sales@sugatsune.com

SUGATSUNE KOGYO (UK) LTD.
Reading, UK
Phone: +44 118 9272 955
E-mail: sales@sugatsune.co.uk

SUGATSUNE KOGYO INDIA PRIVATE LIMITED
Mumbai, INDIA
Phone: +91 22 28314490/91
E-mail: sales@sugatsune.in

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

Chicago, USA
Phone: +1 312 461 1081
E-mail: chicagoshowroom@sugatsune.com

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