LAMP

Installation Manual FD80-AFH ALUMINUM FRAME SLIDING DOOR

Recessed Mount Roller

Part No. FD80HHP-AF

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 heavy duty aluminum frame sliding door system for residential & commercial use.
- Recessed mounted roller allows a small gap between the track and the door.
- There are two types of horizontal frame designs: the standard type and the slim type.



Required number of intermediate supports (15)	(Without Intermediate support)	1	2	3
Door height	Max. 2200 mm 2201- 2			2201- 2700 mm
Door width	784- 900 mm 901		- 1500 mm	
Glass thickness	5 mm or 6 mm			
Max. Door weight	80 kg / door			
Vertical adjustment	1 mm upward, 4 mm downward			



FOR YOUR SAFETY AND CORRECT INSTALLATION

Meaning of symbols







Required

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

- This (sliding door system) 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.
- It is necessary to manufacture the frame with sufficient strength so that it endures the weight of the door and any impact upon opening/closing the door. Only use designated screws and ensure that they are fastened firmly. A frame with poor strength or loose screws might result in the door falling and causing injury.
- On not try to use this product for anything other than its original purpose. Do not use any part for applications outside of its specification.
- ODo not disassemble or modify any parts other than those described in this document.

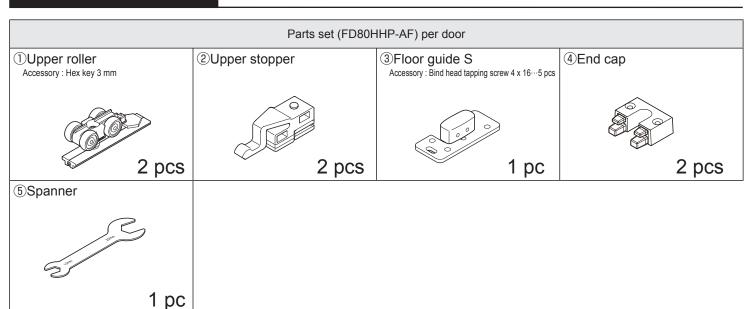


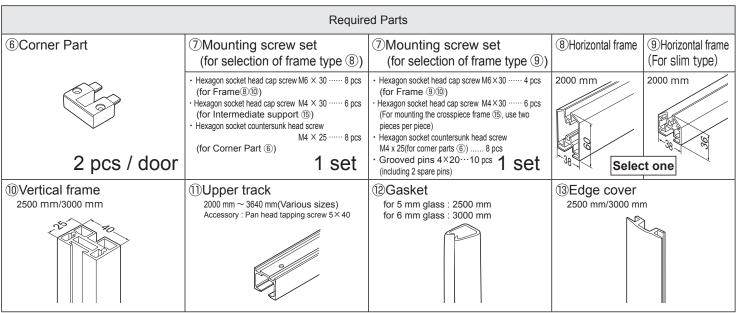
Caution: If not followed injury or damage may result.

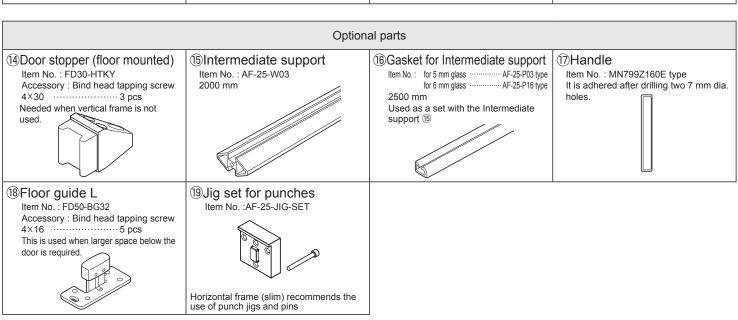
- Make sure to follow the designated dimensions, specifications, and horizontal/vertical angles. Make sure that the frame and door are not warped, since it may cause failure.
- If cutting any parts, make sure to remove any burrs before installation. Also check the upper track for any left-over burrs or scraps and remove these.
- This product is a part for architectural fittings. After installation, make sure to test the finished product thoroughly to ensure that it is functioning and safe. 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



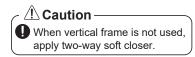


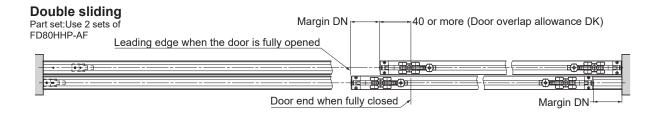


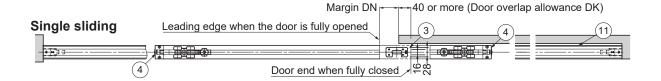


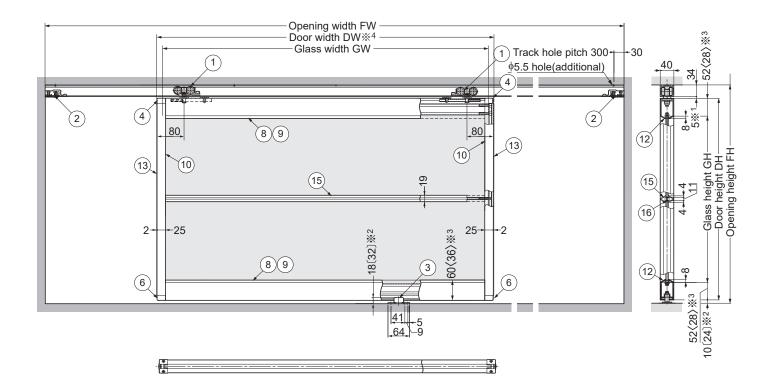
INSTALLATION DRAWING (EXAMPLE)

Refer to page 4 about the dimensions of the doors and glass panels.







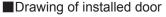


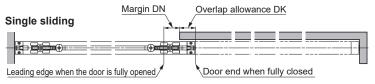
- ¾¹ Vertical adjustment range : -1 mm to +4 mm.。
- $\ensuremath{\%^2}$ Dimension in [] : when floor guide L $\ensuremath{\$}$ (option) is used.
- 3 Dimension in 3: when Horizontal frame (For slim type) 9 is used.
- ¾⁴ Door width DW are dimensions including edge covers ③.

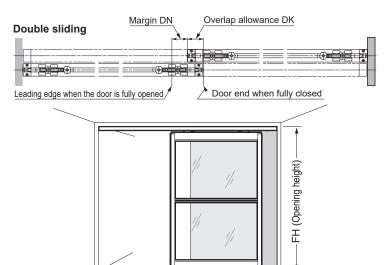


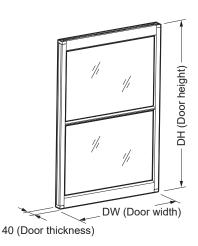
DIMENSIONS OF DOORS

(Round off the decimal point for the divided dimensions.)









 $\textbf{8} \textbf{When using the horizontal frame} \ (\textbf{Dimension}) \ \text{is when} \ \textcircled{18} \ \textbf{Lower guide L is used}.$

FW (Opening width)

DH(opening height)=FH - 49 [63]

Single DW(Door width) = $\frac{\text{FW + Door residual DN+40 or more (Overlap allowance DK)}}{2}$

Binding DW(Door width) = $\frac{\text{FW+40 or more (overlapping allowance DK)}}{\text{PW-40 or more (overlapping allowance DK)}}$

 $GH(glass\ height) = \frac{DH-104-(Number\ of\ Intermediate\ support\ \textcircled{11})}{Number\ of\ glass\ panels}$

GW(glass width) = DW-38

9When using the horizontal frame (slim)

DH(opening height)=FH-49 [63]

Single DW(Door width) = $\frac{\text{FW + Door residual DN+40 or more (Overlap allowance DK)}}{2}$

Binding DW (Door width) = $\frac{\text{FW+40 or more (overlapping allowance DK)}}{2}$

 $GH(glass\ height) = \frac{DH-56-\ (Number\ of\ Intermediate\ support\ (\ref{eq:support}\ X\ 11)}{Number\ of\ glass\ panels}$

GW(glass width) = DW-38

Example 1



Ex: 1 door on single track

Size per Door when opening width is 1800 mm, opening height is 2200 mm, Door residue is 80 mm, and overlapping allowance is 40 mm

=2151 mm

$$DW = \frac{1800 + 80 + 40}{2}$$
= 960 mm

Example 2



Ex: 2 door on double track

Size of each door with Opening width 1800 mm, Opening height 2400 mm and Overlap 40 mm.

$$DH = 2400 - 49$$

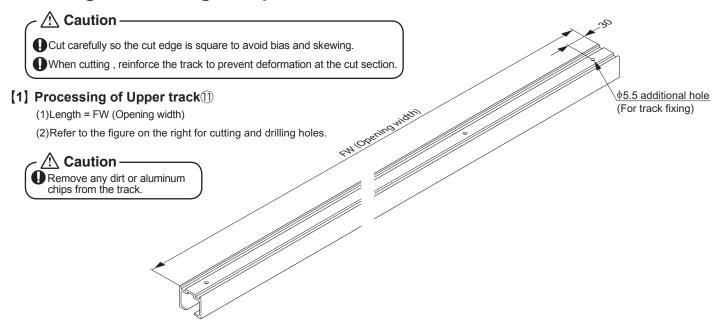
=2351 mm

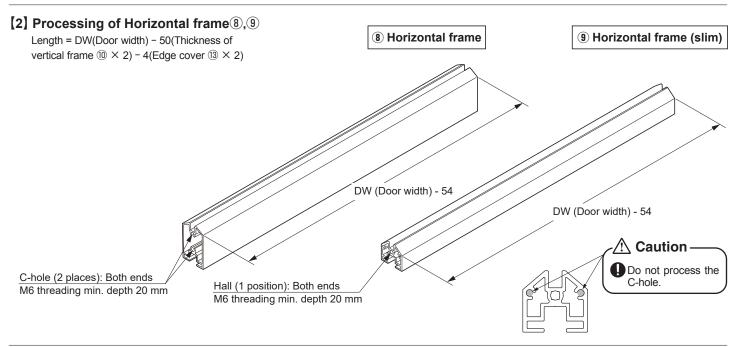
$$DW = \frac{1800 + 40(Overlap allowance DK)}{2}$$

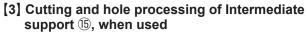
2

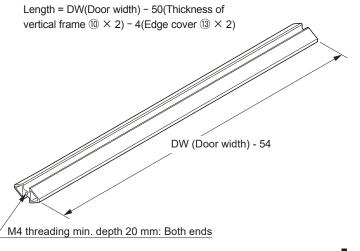
=920 mm

1 Cutting and Drilling Components

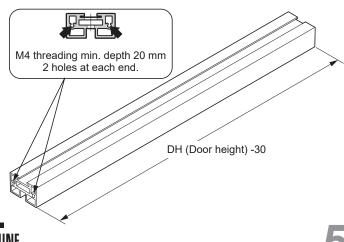




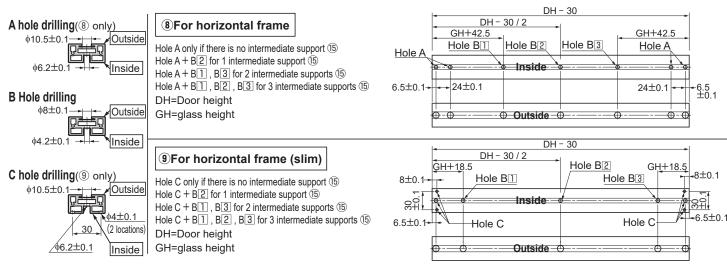




[4] Processing of Vertical frame¹⁰ - Step 1



[5] Processing of Vertical frame (10) - Step 2 (for A-hole/C-hole machining)

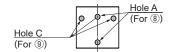


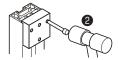
(B) Hole machining using a punch jig (for A-hole/C-hole machining)

When using the horizontal frame (slim) (9), jig (8) for punch is recommended.



●Hook the jig on the upper edge of the vertical frame and the groove.





After striking the punch, drill the holes according to the figure on the left.

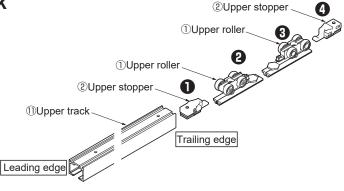
2 Inserting Parts into Upper Track

Insert the parts in order from 1 to 4.



∕!\ Caution

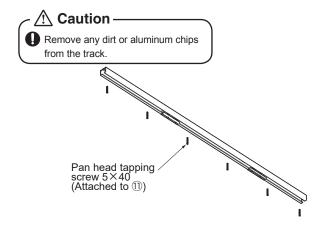
Tape around rollers and upper track to prevent inserted parts from falling.



3 Mounting the Upper Track (11) and Floor Guide

[1] Mounting the Upper track ①

Fasten the upper track with provided screws.

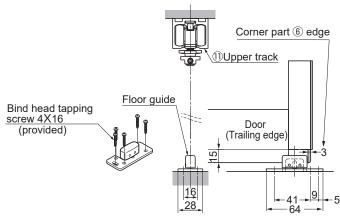


(2) Mounting the Floor guide

(1)Position floor guide just below the center of the upper track ①.

(2)With the door closed, adjust the floor guide position so that the protruding part does not come into contact with the edge of the corner part (a).

Then fit with supplied screws.

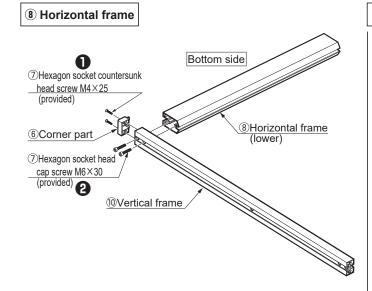




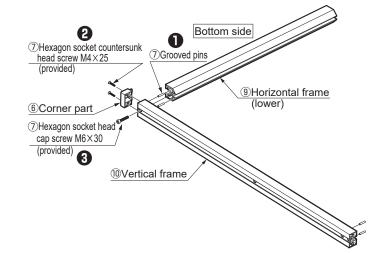
4 Assembling Door

Caution Coat screw threads with an anti-back off material such as "thread locking". During door installation, handle the glass carefully to prevent injury.

[1] Assembly of Horizontal frame® ,9 (lower) and Vertical frame®

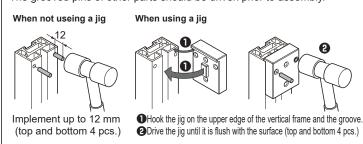


Horizontal frame (slim)



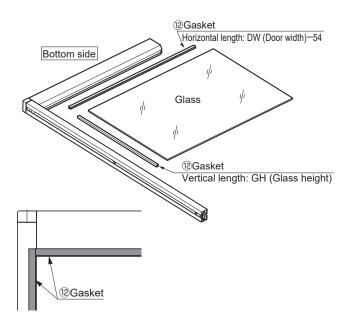
Placement of grooved pins

The grooved pins of other parts should be driven prior to assembly.

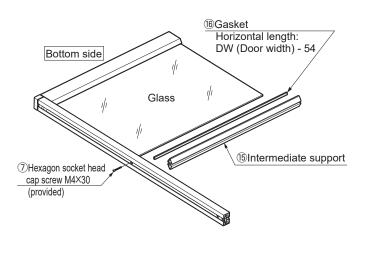


[2] Insertion of glass - Step 1

(The following mounting, adjustment and door removal procedures are explained using the horizontal frame (a).)

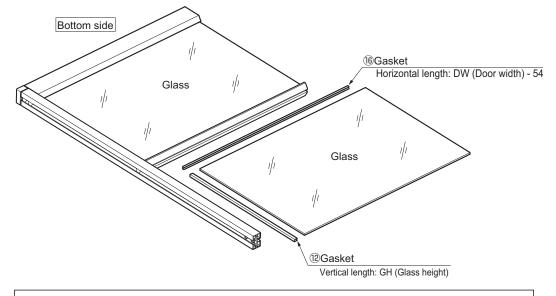


[3] Assembly of Intermediate support (5), when used



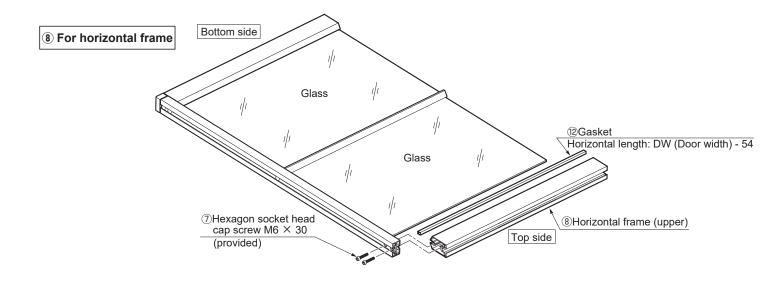


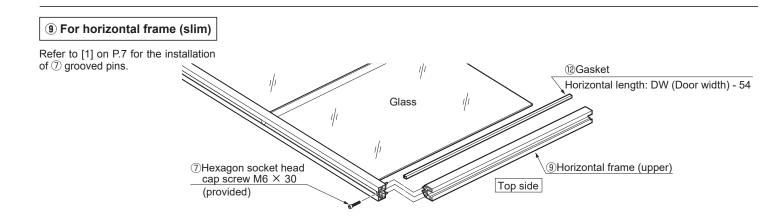
[4] Insertion of glass - Step 2, when Intermediate support is used



When using more than two Intermediate supports, repeat procedures 4 - (3) to 4 - (5)

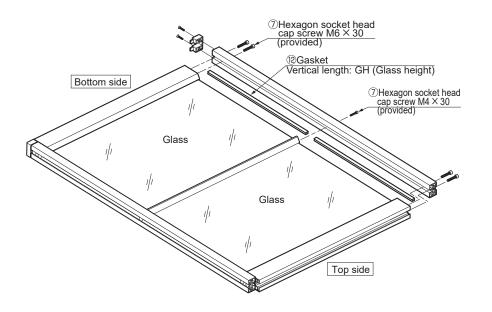
[5] Assembly of Horizontal frame 8,9 (upper)

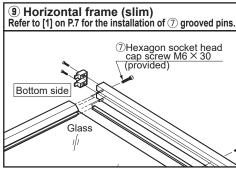


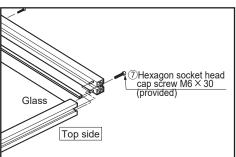




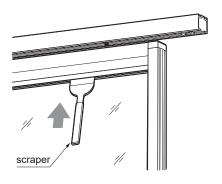
[6] Assembly of Vertical frame 10



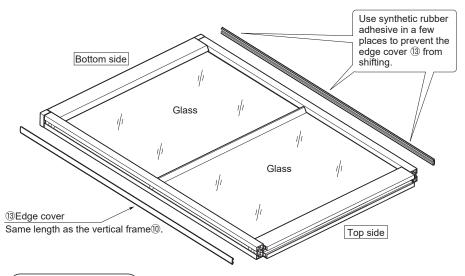




You may find the gasket @ coming off from the frame. In such case, use a scraper or something to push it in and be careful not to scratch the glass.



[7] Assembly of Edge covers (3)





Bend the edge cover ¹³ between your fingers and press it into the side of the vertical frame ¹⁰.

Before attaching the edge covers (3), make sure the frame is not biased or skewed, and that all bolts are tight.

Make sure the parts are firmly assembled and there is no warping or skewing.



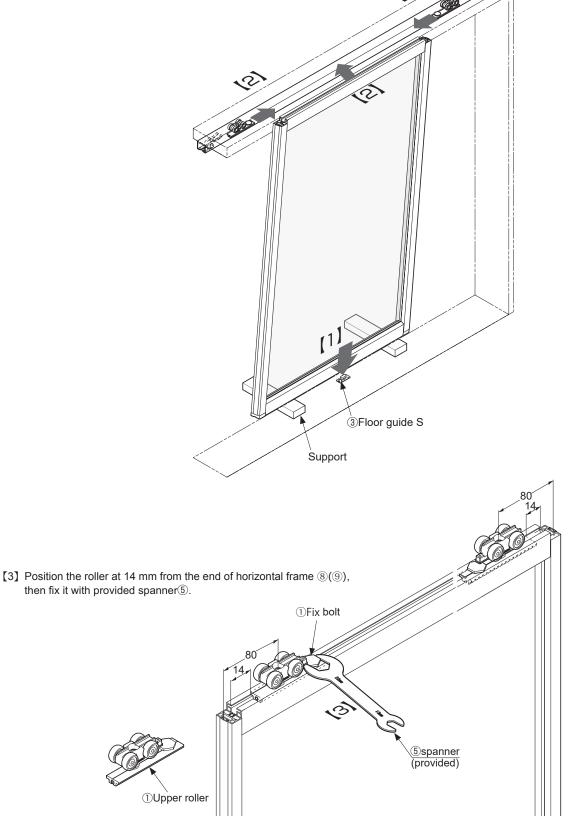
5 Hanging the Door

[1] Put a support below the door to be hanged. Tilt the door as shown in the figure, and set the floor guide S ③ to the groove of the bottom horizontal frame ⑧,⑨.

Caution

Be sure to have someone with knowledge and experience assist you.

[2] Insert the fixing plate of the roller 1 in the horizontal frame 8,9 as shown in the figure below.



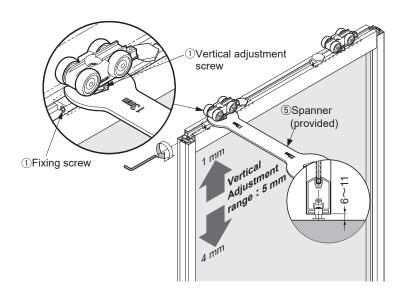


6 Adjustment of Door Height

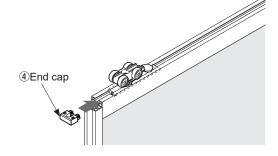
- [1] Remove the support from under the door.
- [2] Adjust the door parallel to the upper track with 6- 11 mm clearance between door and floor.

Then, tighten the vertical adjustment screw.

[3] Fix the position with provided hex key.



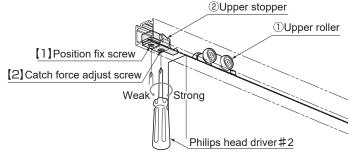
[4] Put the end cap 4 on both ends of the door.



7 Fixing Upper Stopper and Adjustment

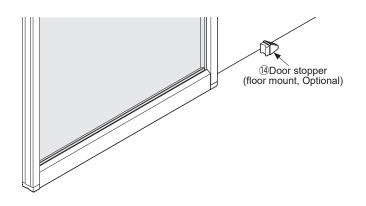
- [1] Fix upper stopper② with the door fully closed.

 Set the position of upper stopper such that upper roller in the track contacts with upper stopper, tighten position-set screw with Philips head driver#2.
- [2] Using Philips head driver#2, adjust door catch force by the adjust screw.
- [3] Fix another stopper ② and adjust it at opposite end in the similar manner



8 Mounting the Door Stopper (Optional)

When vertical frame is not used, use a door stopper $\ensuremath{\mathfrak{P}}$ of optional.



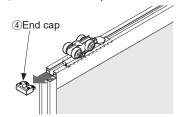


HOW TO REMOVE DOOR

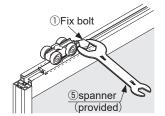
Be careful not to let the door fall.

[1] Put a 10 mm support under the door.

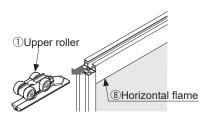
[2] Pull out the end cap.



[3] Loosen the fix bolt with provided spanner.



[4] Pull out the upper roller form the horizontal frame®.



[5] Remove the door from the Floor guide.

Final verification Verify that all screws are securely tightened, and verify that all screws have been used.

Periodical Inspection Clean the inside of the track.

Check the upper and lower space of the door. If necessary, correct the space.

TROUBLESHOOTING

Trouble	Checkpoint	Solution		
Abnormal noise during operation	Check if door bottom contacts the floor or floor guide.	Verify that track fixing screws are not loosened. Then, Adjust the door height such that the clearance between the door bottom and floor is 6 – 11 mm between door bottom and floor.		
	Check if door touches adjacent parts.	Adjust position of the floor guide.		
	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	Check if door bottom contacts the floor or floor guide.	Verify that track fixing screws are not loosened. Then, Adjust the door height such that the clearance between the door bottom and floor is 6 – 11 mm between door bottom and floor.		
Door does not move.	Check the track retaining screws for looseness.	Retighten screws to free the roller.		
Door starts to move.	Check the upper track if it is set horizontally.	Using a level gauge, reset upper track horizontally.		

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