### LAMP

# FD80-AFH HEAVY DUTY ALUMINUM FRAME SLIDING DOOR (Surface Mount Roller, Two-way Soft Close) Installation Manual

Part No.FD80DHCMP-AF

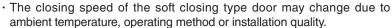
Thank you for selecting our product. Before starting installation, please read this manual thoroughly to ensure correct installation. Please keep this manual at hand for future reference.

## ABOUT THE PRODUCT

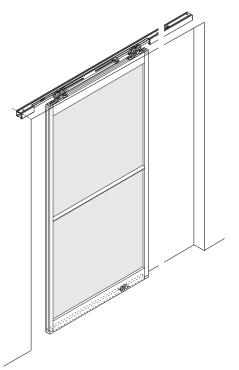
- This product is a parts set for heavy duty aluminum frame sliding door system for indoor use.
- Two-way soft closer enables two-way soft closing movement for both direction.

## **SPECIFICATIONS**

	Without Intermediate support 13	With Intermediate support ®
Door width	804 mm – 900 mm	804 mm – 1500 mm
Max.Door height	2200 mm	2500 mm
Min.Door thickness	5 mm or 6 mm	
Max.Door weight	80 kg	
Height adjustable range	4 mm upward, 4 mm dounward	



· Recommended ambient temperature range is 5 to 40 degrees centigrade.



## FOR YOUR SAFE WORK AND CORRECT INSTALLATION

#### Meaning of symbols







Required



## $\stackrel{m{\prime}}{!}$ **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.
- $\bigcirc$  Do not disassemble nor modify any parts than those described in this document.

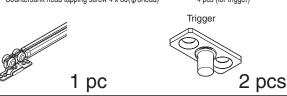
# $\dot{\mathbb{P}}$ Caution: If these cautions are not followed, it may result in injury or damage.

- 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 (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).
- To avoid damaging of aluminum frame, carry out installation work on clean floor.
- /!\ Please use the tempered glass. It is recommended to use shatter-proof film on the glass.
- When installing "pocket door" specification, make "easy-maintenance" structure. For example, use removable panel.



## **COMPONENT PARTS**

#### Parts set (FD80DHCMP-AF) per door ①Two-way Soft Closer (surface mount) + Trigger ...... 4 pcs (not needed for this set) Accessory screw: Pan head tapping screw 4 x 45 ..... Countersunk head tapping screw 4 x 30( \$\phi\$ 6head) \cdots for trigger)



# ②Upper roller (surface mount)

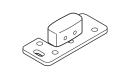
Accessory screw : Pan head tapping screw (not needed for this set)



1 pc

## ③Floor guide S

Accessory screw : Bind head tapping screw 4 x 16 ····· 5 pcs



1 pc

#### 4)Plate nut

Accessory screw : Hexagon socket button head screw M5 x 16 ······ 8 pcs Spring lock washer 5 ····· 8 pcs Plain washer 5 ····· 8 pcs



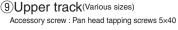
1 set

## Required Parts

#### **5** Corner Part



4 pcs / door



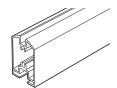


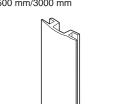
#### 6 Mount screw set

- Hexagon socket head cap screw M6 x 30 ····· 8 pcs (for Frame 7 8)
- Hexagon socket head cap screw M4 x 30 ····· 6 pcs (for Intermediate support®)
- · Hexagon socket countersunk head screw M4 x 25 ····· 8 pcs (for Corner Part(5))

1 set

#### 7)Horizontal frame 2000 mm





#### ® Vertical frame 2500 mm/3000 mm





#### **®Gasket**

for 5 mm glass: 2500 mm for 6 mm glass : 3000 mm



#### ①Edge cover 2500 mm/3000 mm





holes

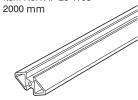
## Optional parts

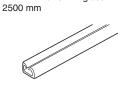
#### 12 Door stopper (floor)

Item No. : FD30-HTKY Accessory screw : Bind head tapping screw 4×30 ...... 3 pcs Needed when vertical frame is not used.



## 13 Intermediate support Item No. : AF-25-W03





#### (18) Spanner

Item No.FD30-FSP



Nominal designation 10, 12

#### 16 Stopper block

Item No. : FD80-HSB This is used in the upper track.



## 17Floor guide L

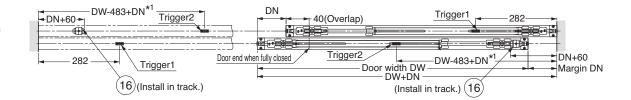
Item No.: FD50-BG32 Accessory screw: Bind head tapping screw 4×16 ..... 5 pcs This is used when larger space below



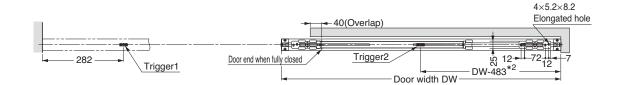
## **INSTALLATION DRAWING (EXAMPLE)**

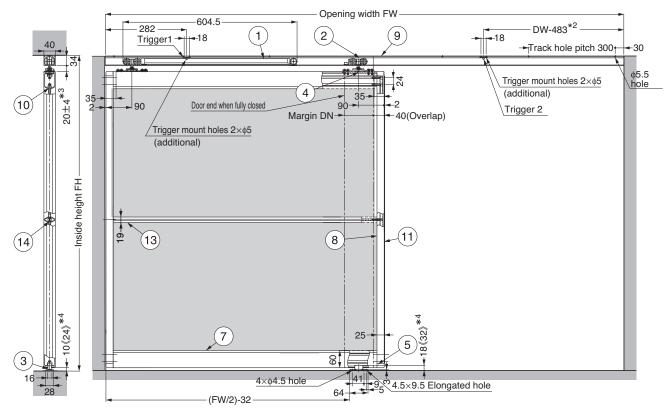
Refer to page 4 about the dimensions of the doors and glass panels.

# **Double sliding**Part set:Use 2 sets of FD80DHCMP-AF



## Single sliding





\*3 Height adjustable range : -4 mm to +4 mm.

\*4 Dimension 《 》 : when floor guide L⑦(optional) is used.

#### **INSTALLATION DIMENSIONS FOR TRIGGER 2**

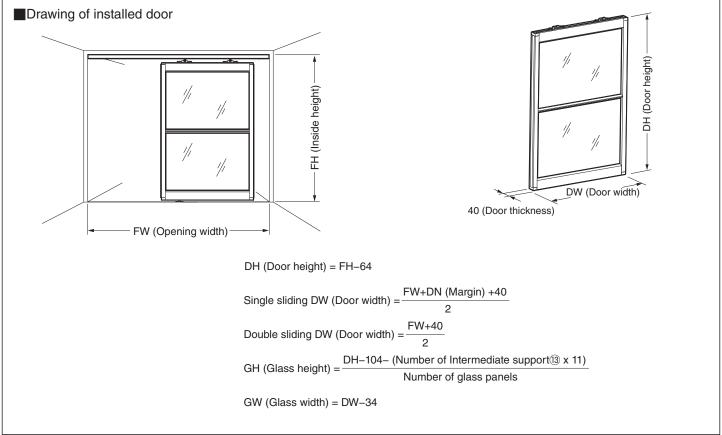
Please add the Margin DN to dimension for Trigger 2, if you are using a protruding handle. Example shown below.

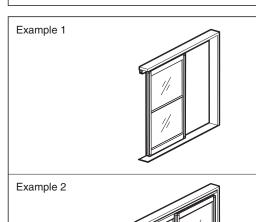
	*2	*1
DW	[Margin DN=0 mm] Installation dimension for Trigger 2	[For Double sliding only] Example [Margin DN=70 mm] DW-483+DN is the Installation dimension for Trigger 2
1,000	517	587
1,100	617	687
1,200	717	787
1,300	817	887
1,400	917	987
1,500	1,017	1,087



## **DIMENSIONS OF DOORS**

(Cut off after the decimal point for the divided dimensions.)

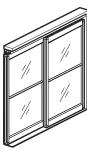




Size of the door when Opening width 1800 mm and Opening height 2400 mm with 80 mm of margin DH = 2400-64 = 2336 mm  $DW = \frac{1800+80+40}{2}$  = 960 mm

= 920 mm

Ex: 1 door on single track



Ex: 2 door on single track Size of each door when Opening width 1800 mm and Opening height 2400 mm DH = 2400-64 = 2336 mm DW =  $\frac{1800+40}{2}$ 

# 1 Cutting and hole processing of standard length parts

## 

- · Cut carefully so the cut edge is square to avoid bias and skewing.
- · Make sure to remove any burr. Also check the upper track for any left-over burr or scrap and remove these.

## 1-1 Processing of Upper track 9

Length = FW (Opening width)

Refer to the figure on the right for cutting and drilling holes. 30 A-492' FW (Opening width) φ5.5 additional hole (For track fixing) 2×¢5 additional hole (For trigger mount) 2×¢5 additional hole

(For trigger mount)

About dimension A (See the drawing on page 3 for the detail.)

#### Single sliding

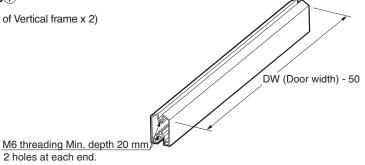
A = DW (Door width) FW (Opening width) + DN (Margin) + 40

#### Double sliding

A = DW (Door width) + DN (Margin)FW (Opening width) + 40 + DN (Margin)

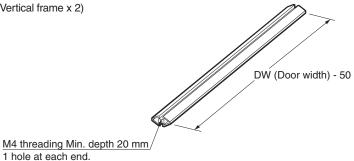
## 1-2 Processing of Horizontal frame 7

Length = DW(Door width) - 50 (Thickness of Vertical frame x 2)



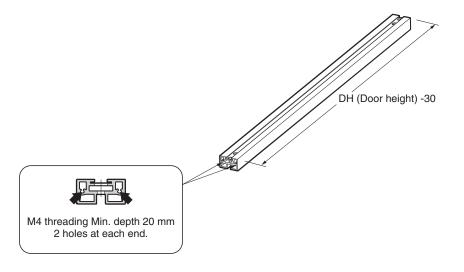
#### 1-3 Cutting and hole processing of Intermediate support (3), when used

Length = DW(Door width) - 50 (Thickness of Vertical frame x 2)





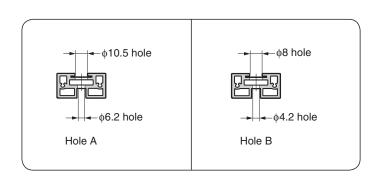
## 1-4 Processing of Vertical frame® - Step 1

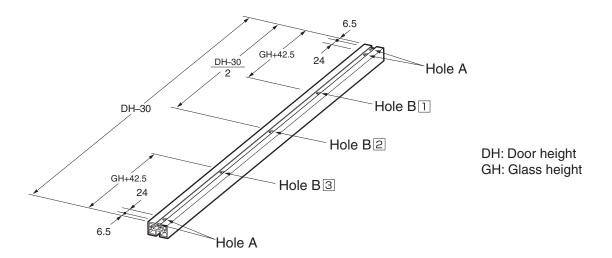


## 1-5 Processing of Vertical frame® - Step 2

Drill holes according to the quantity of Intermediate support.

Hole A only if there is no Intermediate support Hole A + B $\boxed{2}$  for 1 Intermediate support Hole A + B $\boxed{1}$ , B $\boxed{3}$  for 2 Intermediate supports Hole A + B $\boxed{1}$ , B $\boxed{2}$ , B $\boxed{3}$  for 3 Intermediate supports



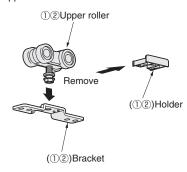




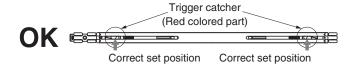
# 2 Assembling parts

### 2-1 Disassembling Rollers

Remove upper roller bracket and holder.

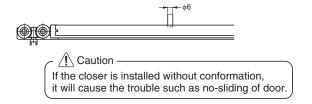


#### 2-2 Confirmation before installing Two-way soft closer



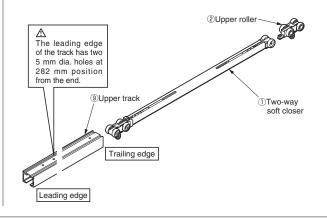


If the position is wrong, pull back the trigger catcher to the correct position using 6 mm diameter hard bar.



### 2-3 Assembly of parts for track

- (1) Assemble the parts in order of  $\ensuremath{\textcircled{1}}$  to  $\ensuremath{\textcircled{2}}$  with care of direction.
- (2) Tape around rollers and upper track to prevent drop of inserted parts.

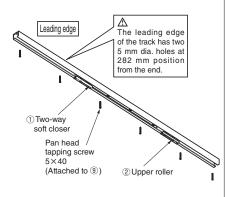


# 3 Installing Upper track 9, Trigger 1, and Floor guide S 3

#### 3-1 Mounting Upper track 9

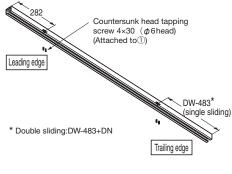
Confirm that leading edge of the upper track is in same direction as the leading edge of the door.

Fix the upper track with attached screws.



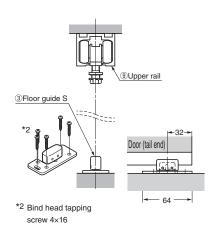
## 3-2 Installing Trigger 1)

According to "Installation Drawing (Example)", install triggers with attached screws.



#### 3-3 Installing Floor guide S3

Install the Floor guide so that it stays under the door when it is opened or closed.



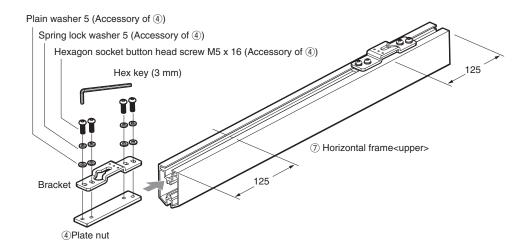


# 4 Assembling door

## **⚠** Caution -

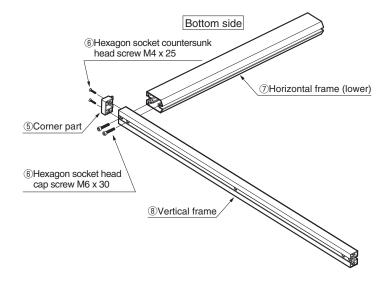
- · Coat screw threads with anti-loose material such as "thread locking".
- $\boldsymbol{\cdot}$  During door installation, handle the glass carefully to prevent injury.

## 4-1 Preparation of Horizontal frame 7 - Upper

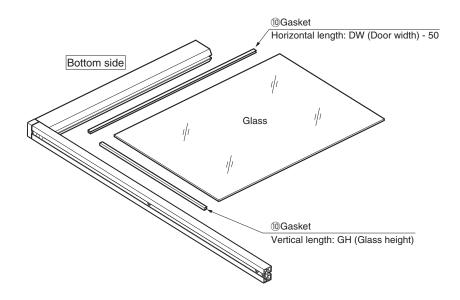


Set the Bracket to upper Horizontal frame ⑦, using Plate nut ④. The distance from the edge and Bracket center should be 125 mm.

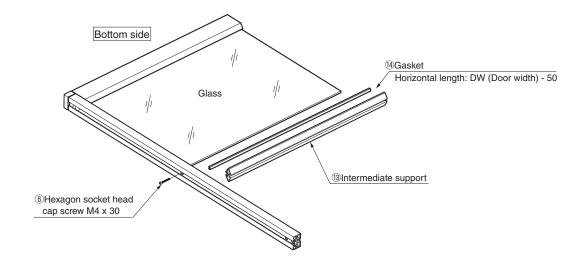
## 4-2 Assembly of Horizontal frame (lower) and Vertical frame (8)





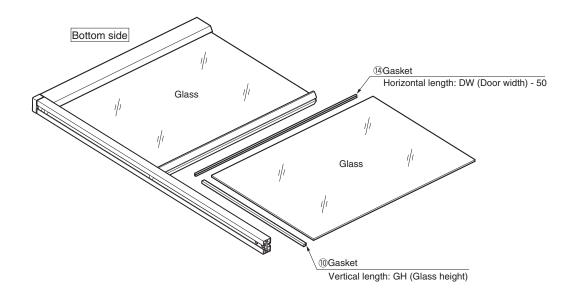


## 4-4 Assembly of Intermediate support (3), when used



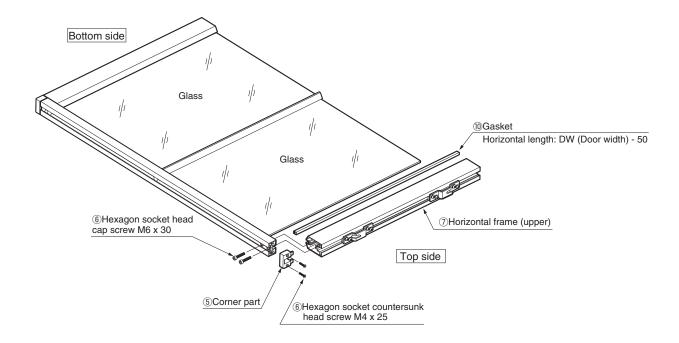


## 4-5 Insertion of glass - Step 2, when Intermediate support is used

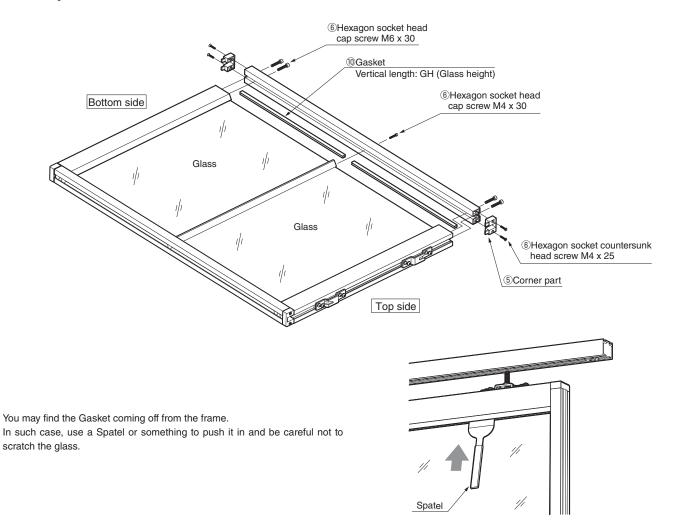


When using more than two Intermediate supports, repeat procedures 4-4 to 4-5.

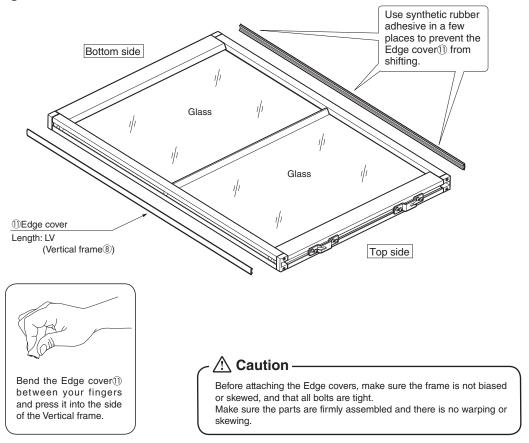
## 4-6 Assembly of Horizontal frame (upper)



### 4-7 Assembly of Vertical frame®

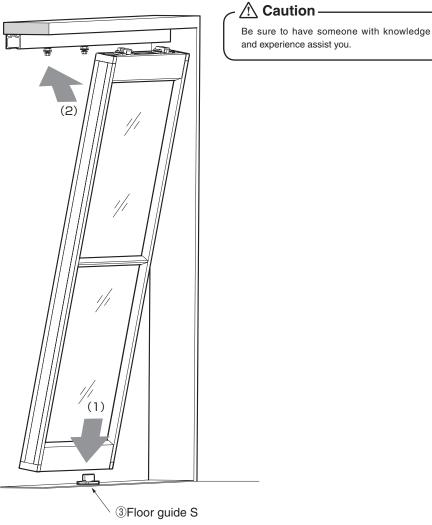


## 4-8 Assembly of Edge covers(1)

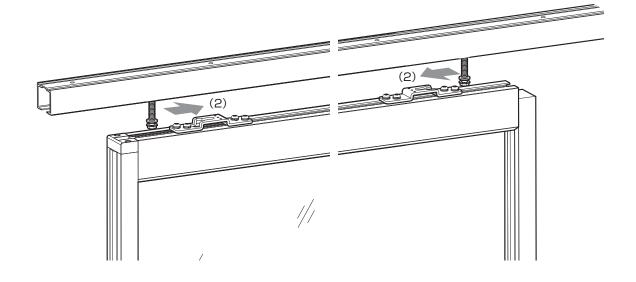




# 5 Hanging the door



- (1) Put a support below the door to be hanged. Tilt the door as shown in the figure, and set the Floor guide S③ to the groove of the bottom Horizontal frame(7).
- (2) Push the door and set the hanger bolts as shown in the figure below.

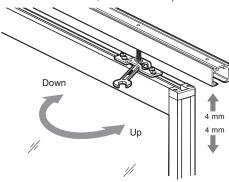


# 6 Adjustment of door height

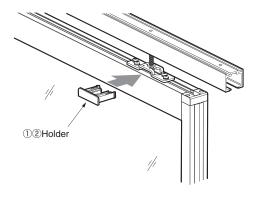
- (1) Remove the support under the door.
- (2) Turn the bolt and adjust the height of the door.

The height adjustment range is +4 mm to -4 mm from factory setting (totally 8 mm).

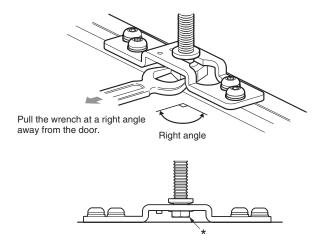
(Tool: nominal 10 wrench, max. 6 mm thick)



(4) Insert the holder as shown below.

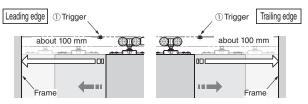


(3) After adjusting the door, pull the wrench at a right angle away from the door. Make sure the width across flats of the bolt head is as shown in the figure\*.



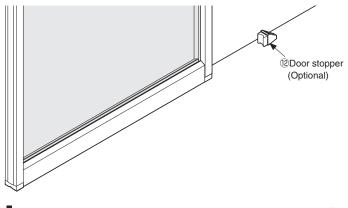
# 7 Confirming Two-way soft closer operation

- (1) Slowly move the door toward door head, and confirm that sliding door closer starts its function at approx. 100 mm before full-close position.
- (2) Also, confirm that the door closer starts its function at approx. 100 mm before full-open position.
  - If the closer is not working correctly, check the Troubleshooting section.



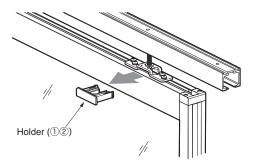
# 8 Installing Door stopper(2) (Option)

Make sure to install the Door stopper@ when vertical frame is not used.

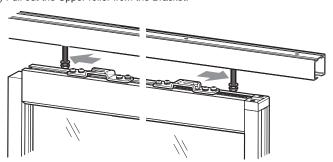




## **HOW TO REMOVE DOOR**



(3) Pull out the Upper roller from the Bracket.



Periodical Inspection

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

## **TROUBLESHOOTING**

Trouble	Checkpoint	Solution
Door stops during soft closing	Check if door bottom contacts with floor.	Confirm that track fixing screws are not loosened. Then, adjust door height such that clearance between door bottom and floor becomes 6 - 13 mm.
	Check if upper track is set horizontally.	Using a level gauge, reset upper track horizontally.
	Check if mohair seal is installed.	Reduce the friction between mohair and door.
No soft closing	Check if trigger is installed.	Install trigger to correct position.
	Check if door is closed by excessive force.	Do not close door by excessive force and it may damage soft closer.
	The position of trigger catcher might change to the incorrect position inside the track. (See section 2-2.)	Slowly moving the door toward leading edge side, then push the door firmly. Repeat this action to the opposite side as well.  If it is still not improved, check the status of trigger catcher in section 2-2.
Abnormal noise during operation	Check if door touches other parts.	Provide necessary space between door and adjacent objects.
	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 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 a door without warp.
Door does not move.	Check track retaining screws for looseness.	Roller touches with screw. Retighten screws to free the roller.

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