Sliding Closer Installation manual Horizontal model NSC-C60V

Safety Precautions

Thank you for purchasing our product. Before using the product, please read this instruction manual carefully and abide by safety precautions. After reading, keep it on hand

《Safety Precautions》

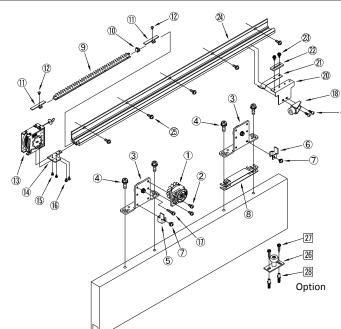
- 1. Do not the use product for unspecified door dimensions or door weight
- 2. If the 'Control Device' of the sliding door closer becomes ineffective the door could close vigorously with possible risk of injury. Should there be any oil leakage, component damage or ineffective control could occur, despite speed adjustment. Replace the control promptly.
- 3. Guarantee and performance of the product cannot be upheld should the product be disassembled or remodeled in anyway
- 4. Securely tighten the screws that mount the product. Failure to observe these precautions may cause product damage or accident
- 5. Be sure to install the Door Retaining Fitting (part 5 below), Failure to observe this instruction may dismount the door with possible risk of injury.
- 6. Do not open the door strongly, Failure to observe this precaution may cause product damage or accident.
- 7. Be sure to install the door stopper on the door back end.
- 8. Do not drop or strike any of the components. Failure to follow this precaution may cause a breakdowns.
- 9. The closer incorporated in the product causes the door to close on its own. Therefore do not close the door with a strong force. Any such actions may cause the door to close vigorously, resulting in an unexpected accident or defect.

10. Take care not to let a child play with or bang the door.

《Precautions to be taken to ensure a long service life 》

- 1. Wipe off dust and dirt from the rail and door rollers.
- 2. Conduct periodic checks for lose screws and other anomalies

The product can be converted between the right- and left-handed opening. Parts details types. This drawing shown represent a right-handed opening type.



No.	Parts name	Quantity		Remarks
1	Control device	1		
2	Pan head screw M5X12	2		
3	Hanger	2		
4	Cross recessed hexagon head screw M8X25	4		
(5)	Door retaining fitting L	1		
6	Door retaining fitting R	1		
7	Pan head screw M5X8	2		
8	Height adjusting plate (t=1.0mm)	4		
9	Control rack	1		
10	Noise suppression rubber	1		
1	Control rack fitting	2		
12	Hexagon socket button head screw M4X5	2		
13	Pull spring	1		
(14)	Pull spring bracket	1		
15	Pan head screw M3X8	2		
16	Pan head screw M4X5	2		
1	Pan head screw M5X25	1	Pull spring wire bracket	
18	Door stopper	1		
19	Pan head drill screw 5X16	2		
20	Plate spring bracket	1		
21)	Plate spring	1		
22	Stop force adjusting plate	1		
23	Cross recessed hexagon head screw M4X10	2		
24)	Rail L=2200 [L=3100]	1		
25	Pan head screw M5X16	8[11]		
26	Guide roller	1	Option	
27	Hexagon head tapping screw 5X25	2		Wood,For fisher plug
2/	Hexagon head screw M5X12	2		For steel
28	Fisher plug 6X30	2		Concrete, for mortar

3 Setting rail mounting holes

Door front end

4 Installing the rail

• Tap holes (M5 pitch 0.8) horizontally at intervals of 300 with the hole

 Dimension from the bottom of the top frame of the sash = 55mm (When the cover between the top frame and door is 10mm)

If the dimension A in the drawing below (The dimension from the

Pitch of 300

Reference hole

Right hand opening

Install the rail with screw (Pan head screw M5X16) furnished with

↑ Caution

final hole at a pitch of 300 to the inside of the sash on the door back

end) is no less than 175 mm, tap a hole at 125 mm from the inside of

Door back end

Pan head screw M5X16

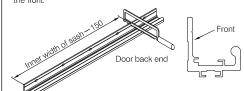
When installing a rail, take care

pecified below, as the reference hole. Dimension from the inside of the sash on the door front end = 125mn

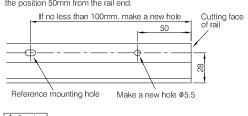
Installation (These drawing shown represent a right-handed opening type. The left-hand opening type is a symmetrical with the type represented in these drawing.

1 Installing a rail

- ① Cutting the rail, making a mounting hole
- Cut the rail to the inner width of the sash less 150mn
- Cut off the door end according to the instructions
 For the right hand opening type, cut off the right end as viewed
- For the left hand opening type, cut off the left end as viewed from



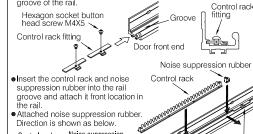
If the distance between the cutting face of the rail and the reference mounting hole is no less than 100mm make a new hole 45.5mm at



•When making any change in the rail, take care not to scratch the runway

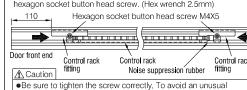
2 Installing a control rack

Temporary tightening the control rack fitting with hexagon socket button head screw M4X5, Insert two sets of rack fittings in the



Control rack Noise suppression Door front end

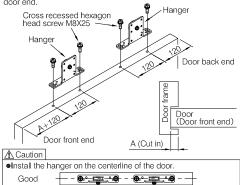
 Slide the control rack fitting on the rail, sandwiching the control rack and noise suppression rubber and fix the control rack fitting with hexagon socket button head screw. (Hex wrench 2.5mm)



- sound and unusual control speed.

 Be sure to fix the control rack and noise suppression rubber
- without rattling. Failure to make an unusual sound

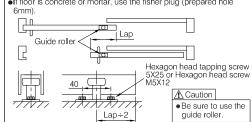
2 Installing the hanger As shown in the drawing, install the hanger



3 Installing the guide roller (optional)

Install the guide roller in the middle of the door lap.
 Install the guide roller so that the door becomes vertical with the

•If floor is concrete or mortar, use the fisher plug (prepared hole



|4|Mounting the door

① Mounting the door

 Before mounting the door, wipe off the dirt from the rail runway.

●Match the door bottom to the guide roller, then suspend the door rollers and mount them onto the rail runway

 Check that the door operates smoothly Adjust the clearance between the door and jamb by varying the number of height adjusting plates used

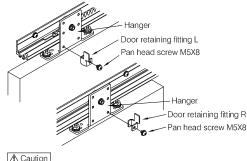
⚠ Caution

•When mounting the door, take care not to scratch the rail runway.

Be sure to install the control device after mounting the door. When suspending and mounting it, the door may strike and damage the rail and other component

② Installing the door retaining fitting

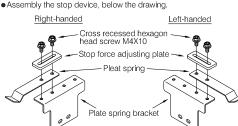
Install the door retaining fitting in the door front hanger and door



Be sure to install the door retaining fitting, the door may come

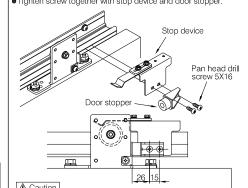
5 Installing door stopper and stop device

1) Assembly the stop device Assembly the stop device, below the drawing.



2 Installing door stopper and stop device

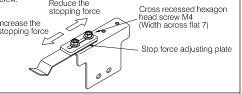
- Install the door stopper at the door stop position with screw
- (Pan head drill screw 5X16) Tighten screw together with stop device and door stopper.



•Be sure to tighten screw, door stopper may come out of place. In case of the door open strongly, install the door stopper in

3 Adjusting the stopping force

Adjusting position of the stop force adjusting plate with the hexago



6 Installing the control device

The control device is interchangeable with right hand operation and left hand opretion. The orientation of the clutch gear determines whether it is right or left hand.

D Procedure for clutch gear

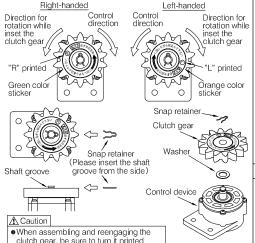
●Insert the washer into the shaft of the control devices. ●Insert the clutch gear follow the below instructions.

《If right-handed opening》

Make the green color sticker (R printed) face upwards, and then insert it while turning (follow the printed direction on the sticker) i (If left-handed opening)

Make the orange color sticker (L printed) face upwards, and ther insert it while turning (follow the printed direction on the sticker) is Be sure to confirm the direction of clutch gear correctly, or control

device will not work. Refer to control direction is below the drawing
Install the snap retainer in the groove at the tip of the shaft.



direction. If push roughly, the clutch gear

2 Installing the control device Install the control device on the hange

on the door front end with screw (Pan head screw M5X12) furnished with the product. by at least 60cm (where it does not engage with the control rack).

⚠ Caution

Control device Pan head screw M5X12

Be sure to orient it correctly, or the control will not work.

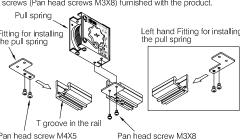
 Be sure to install the control device after mounting the door.
 When suspending and mounting it, the door may strike and damage the rail or other componer

7 Installing a pull spring

1 Installing a pull spring

- Temporarily tighten the screws (Pan head screws M4X5) furnished with the product, on the fittings for installing the pull spring. Then insert them into the T groove in the bottom of the rail.

 • Tighten the screws to fix the fittings.
- Install the pull spring on the fittings for installing the pull spring, with screws (Pan head screws M3X8) furnished with the product.



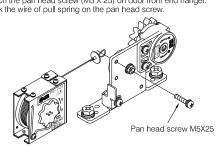
⚠ Caution

•Do not draw the wire with the pull spring alone (before the

Any such practice might scratch the wire

Setting the wire

Attach the pan head screw (M5 X 25) on door front end hanger.
 Hook the wire of pull spring on the pan head screw.



8 Adjusting the closing force and closing speed

${f ar{f 1}}$ Adjusting the closing force

olf the closing force needs adjustment, turn the gear shaft with a screwdriver for adjustment.

Be sure to make an adjustment as following instruction (Also instruction is shown sticker on the component.)

< Adjustment direction >

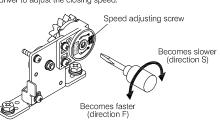
opening or right-handed opening



 Over winding it in the direction of "strong" will cause a breakdown. Be sure to set it to a value not exceeding the number of windings indicated on the sticker on the component

② Adjusting the closing speed

Turn the speed adjusting screw of the control device with a screwdriver to adjust the closing speed.



If faster closeting speed is required, move the control rack to door

- Turn the speed adjusting screw lightly. Otherwise an imperfect control may result. After turning it all the way home, do not turn
- somewhat. As the temperature rises, the speed increases. As the temperature declines, the speed decreases

Installation is completely

