

# Sliding door closer

## Horizontal model NSC-C60V

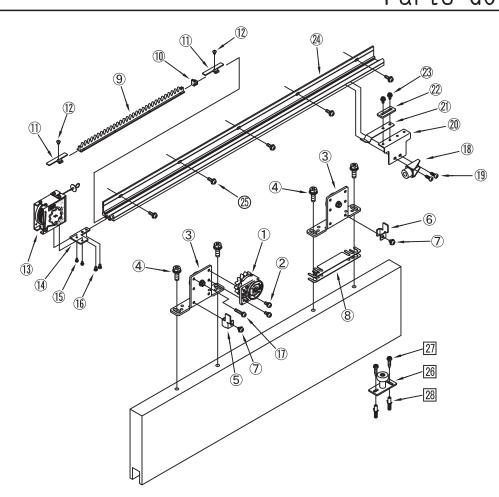
## Safety Precautions

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 for quick reference.

#### <<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.
- 4
  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.

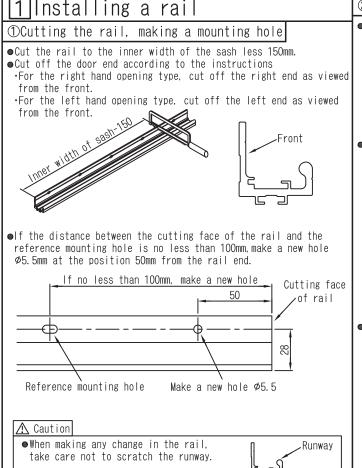
## Parts details

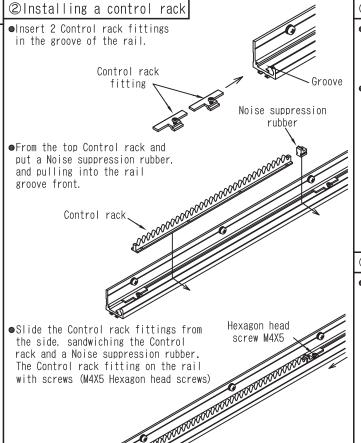


\*The parts is right open, the product can be used both as right opening and left opening. This drawing is shown right opening type.

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	
11)	Control rack fitting	2	
12	Hexagon 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	
	Pan head screw M5X25	1	Pull spring wire bracket
	Door stopper	1	
19	Pan head drill screw Ø5X16	2	
	Plate spring bracket	1	
	Pleat 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	∅5X25 hexagon head tapping screw	2	Wood, For fisher plug
	Hexagon screw M5X12	2	For steel
28	Fisher plug 6X30	2	Concrete, for mortar





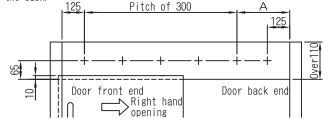


Hexagon head

screw M4X5

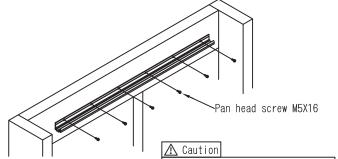
### ③Setting rail mounting hole

- ●Top holes (M5 pitch 0.8) horizontally at intervals of 300 with the hole specified below as the reference point.
- •Dimension from the inside of the sash on the door front end = 125mm
  •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 final hole at a pitch of 300 to the inside of the sash on the door back end ) is no less than175mm, tap s hole at 125mm from the inside of the sash



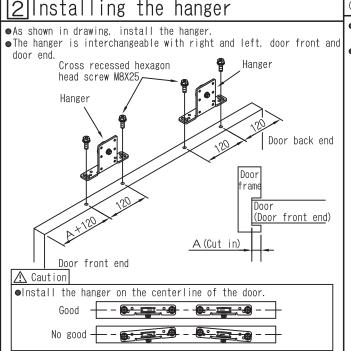
## ④Installing the rail

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



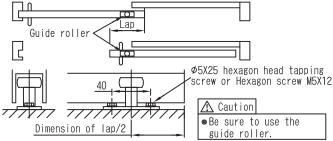
•When installing a rail, take

care not to scratch the runway



## 3 Installing the guide roller (optional item

- •Install the guide roller in the middle of the door lap.
- $\bullet \mbox{lnstall}$  the guide roller so that the door becomes vertical with the floor.
- •If floor is concrete or mortar, use the fisher plug (prepared hole 6mm)



Runway

Guide roller

## 4 Mounting the door

## 

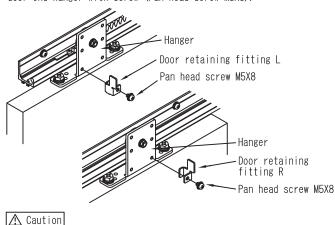
- Before mounting the door, wipe off the dirt from the rail runway.
- •Match the door bottom to the guide roller, then suspend the door rollers and mount them onto the rail runway.
- Check that the door operates smoothly.
- •Adjust the clearance between the door and jamb by varying the number of height adjusting plates used.

  A Caution
- When mounting the door, take care not to scratch the rail runway.

  Per sure to install the control device ofter mounting
- 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.

### ②Installing the door retaining fitting.

•Install the door retaining fitting in the door front hanger and door end hanger with screw (Pan head screw M5X8).

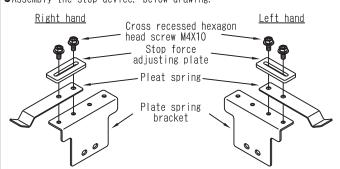


Be sure to install the door retaining fitting, the door may come off.

## 5 Installing door stopper and stop device.

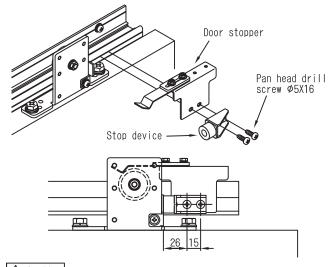
### ①Assembly the stop device.

•Assembly the stop device, below drawing.



#### ②Installing 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.

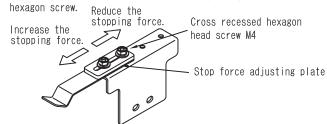


<u>∧</u> Caution

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

#### ③Adjusting the stopping force.

•Adjusting position of the stop force adjusting plate with the hexagon screw. Poduce the



## 6 Installing the control device.

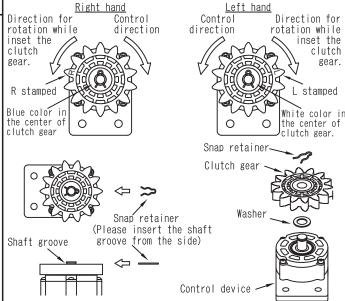
The control device is interchangeable with right hand operation and left hand opretion .The orientation of the clutch gear determines whether it is right or left hand.

#### ①Procedure for clutch gear.

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

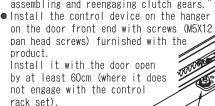
Make the blue surface (the R stamped surface) at the center of the clutch gear face upwards, then insert it while turning it. <!-- Comparison of the co

- Make the white surface (the L stamped surface) at the center of the clutch gear face upwards, then insert it while turning it.
- •Be sure to confirm the direction of clutch gear correctly, or control device will not work. (Refer to control direction is below drawing)
- •Install the snap retainer in the groove at the tip of the shaft.



## ②Installing the control device

In assembling and reengaging the clutch gears, follow the "Procedure for assembling and reengaging clutch gears."



ack set).

Caution

Check the orientation of the control device (right- or left-handed).

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

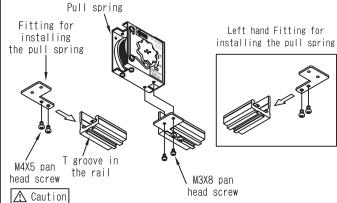
Be sure to install the control device after mounting the door. When suspending and mounting it, the door may strike and damage the rail or other component.

Hanger on Fall door front end

## 7 Installing a pull spring

#### ①Installing a pull spring.

- Temporarily tighten the screws (M4X5 pan head screws) 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 (M3X8 pan head screws) furnished with the product.



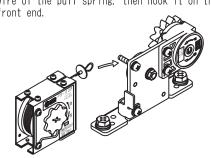
↑ Caution nead screw

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

Any such practice might scratch the wire.

#### ②Setting the wire

•Draw the wire of the pull spring, then hook it on the hanger on the door front end.

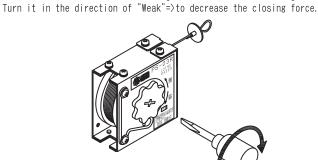


## 8 Adjusting the closing force and closing speed

#### ①Adjusting the closing force

•If the closing force needs adjustment, turn the gear shaft with a screwdriver for adjustment.
Label on the component

Label on the component
Turn it in the direction of "Strong"=>to increase the closing force.

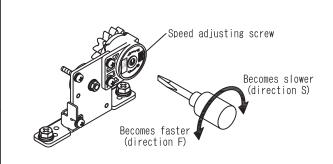


⚠ Caution

 Overwinding 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 label on the component.

### ②Adjusting the closing speed

•Turn the speed adjusting screw of the control device with a screwdriver to adjust the closing speed. (It is factory-configured to the highest speed.)



•Slide the control rack set to adjust the controlling interval, thus adjusting the closing speed.

•Shorten the controlling interval => to increase the closing speed. •Elongate the controlling interval => to decrease the closing speed.

## ⚠ Caution

Control device

Pan head screw M5X12

- Turn the speed adjusting screw lightly. Otherwise an imperfect control may result. After turning it all the way home, do not turn it with overstrain.
- A change in the ambient temperature varies the closing speed somewhat. As the temperature rises, the speed increases. As the temperature declines, the speed decreases.

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