

"NEW STAR" DOOR CLOSERS

COUNTRY OF ORIGIN : JAPAN



NEW STAR

ALL LINE-UP CATALOGUE

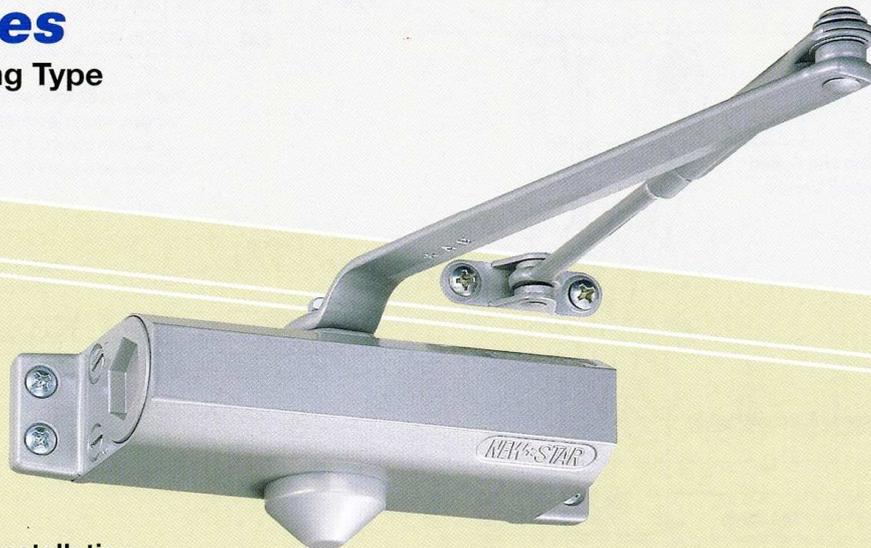
NIPPON DOOR CHECK MFG. CO., LTD.

JUSTY CORPORATION *Osaka, Japan*

DOOR CLOSERS

80 Series

Surface Mounting Type



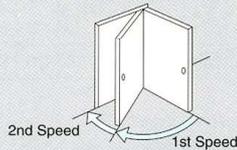
Standard Installation

Right-hand application shown.

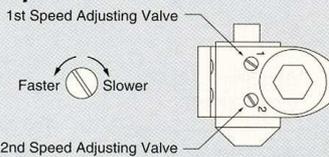
Door Closing Speed Adjustment

Closing Speed Adjusting Valves

Trouble-free adjusting of speeds by simply turning the speed adjusting valves to the right or left.

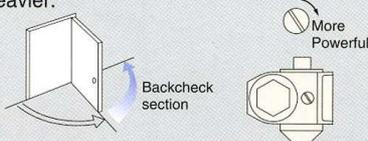


Adjustment of 1st and 2nd Speeds



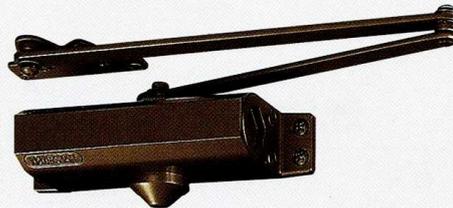
Backcheck Function (Optional)

This function uses hydraulic pressure to prevent the door from opening rapidly when a strong wind or external force is imposed in the opening direction of the door. You can open the door slowly in the backcheck section though the opening force is felt a little heavier.



There is the right and left hand for 185,186

Parallel Installation



Colors

- Silver (N-01)
- Burnt Umber (N-52)

- A horizontal door closer refined by continued research into a product of the finest quality.
- Different models to fit different door sizes. Each of these models is available for either standard installation or parallel installation.
- Further, a choice can be made between a closer with or without a hold-open device.
- Simple inversion of the main body (turning upside-down) allows installation on both right and left hand doors.
- An adjustable hold-open range of 70° to 180° is available to parallel installation and that of 70° to 120° is available to standard installation.
- Models 81 and 181 allow a maximum door opening angle of 150°.

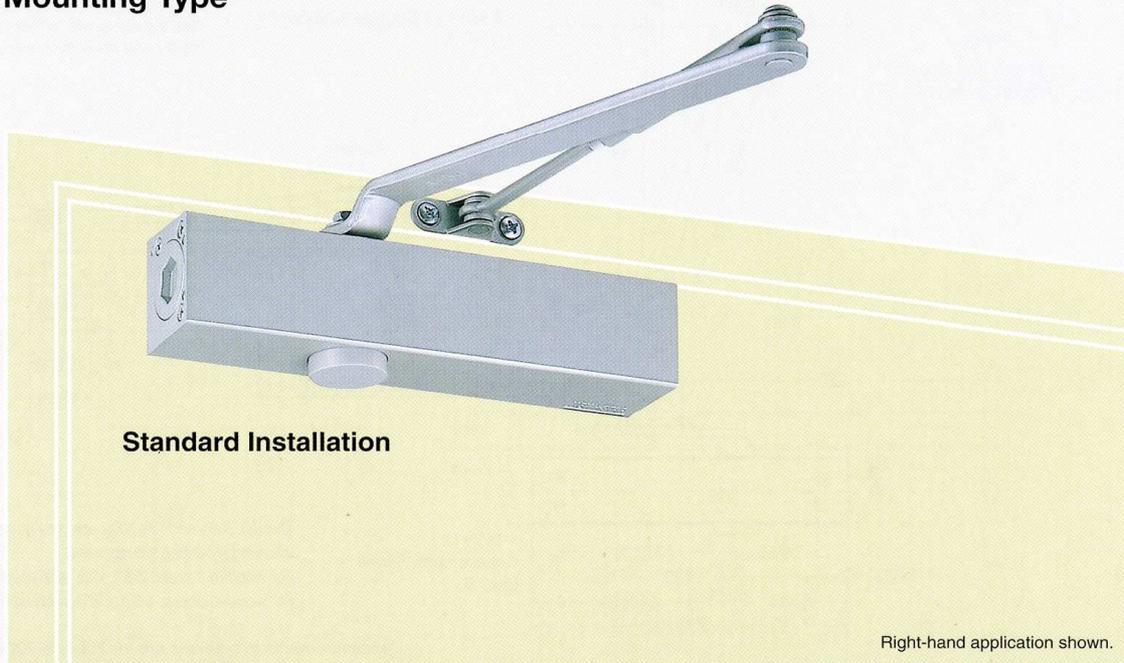
Model Number				Applicable Door Dimensions DW×DH mm	Maximum Door Weight kg
Standard Installation		Parallel Installation			
Without Hold-open	With Hold-open	Without Hold-open	With Hold-open		
81	181 <small>The maximum hold-open angle is 120°</small>	P-81	P-181	800×1800	30
82	182	P-82	P-182	900×2100	45
83	183	P-83	P-183	950×2100	65
84	184	P-84	P-184	1050×2400	85
85	* 185	P-85	P-185	1200×2400	120
86	* 186	P-86	P-186	1800×2700	180

- (Note)
- In the case of standard installation, the maximum hold-open angle is 120°. (180° for parallel installation.)
 - For installation on fire doors, select a closer with a temperature fuse.
 - Those models marked with an asterisk (*) are handed.

DOOR CLOSERS

7000 Series

Surface Mounting Type



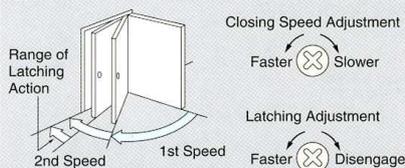
Standard Installation

Right-hand application shown.

Door Closing Speed Adjustment

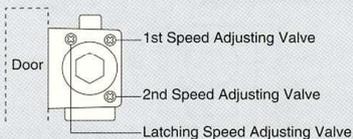
Closing Speed Adjusting Valves

Trouble-free adjusting of speeds by simply turning the speed adjusting valves to the right or left.

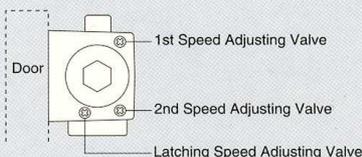


Adjustment of 1st and 2nd Speeds

#7001-7003 #7006-7007



#7004-7005



Latching function (standard feature)

The latching speed can be adjusted for closing the door properly (effective when the frame is airtight or the latch is stiff).

Parallel Installation



- Concealed screws.
- Three valves for adjusting the closing speed (with latching function).
- The mounting bracket for attaching the door closer is installed beforehand.
- #7001-7003, #7004-7005 and #7006-7007 have the same mounting bracket and mounting location.
- An adjustable hold-open range of 70° to 180° is available to parallel installation and that of 70° to 120° is available to standard installation.

Colors

- Silver (N-01)
- Burnt Umber (N-52)

Model Number				Applicable Door Dimensions DW×DH mm	Maximum Door Weight kg
Standard Installation		Parallel Installation			
Without Hold-open	With Hold-open	Without Hold-open	With Hold-open		
7001	S-7001	P-7001	PS-7001	800×1800	30
7002	S-7002	P-7002	PS-7002	900×2100	45
7003	S-7003	P-7003	PS-7003	950×2100	65
7004	S-7004	P-7004	PS-7004	1050×2400	85
7005	S-7005	P-7005	PS-7005	1200×2400	120
7006	S-7006	P-7006	PS-7006	1800×2700	180
7007	S-7007	P-7007	PS-7007	2000×3000	250

(Note) • Backcheck function: Provided as a standard feature for #7006 and #7007. Provided as an optional feature for #7001 to #7005. (Details per page-3)

DOOR CLOSERS

Selection Method

Various New Star Door Closer models are available for a wide range of applications.

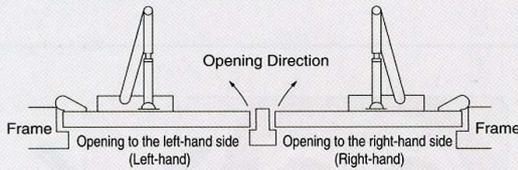
Select the most suitable model with consideration of the characteristics of your application including the function, size, and installation method of the door, and the conditions of the frame and door.

Install a doorstop in the position where the door opens to its maximum extent in order to protect the door, wall, and Door Closer from damage.

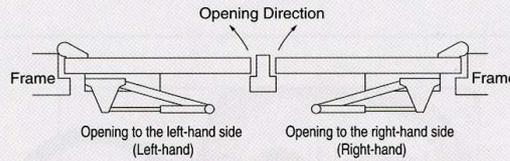
■ Installation onto Right- or Left-handed Doors

- A right-handed door and left-handed door open to the right-hand side and left-hand side, respectively, when they are pushed.
- Install the standard installation on the door opening side and the parallel installation on the door closing side.

Standard Installation



Parallel Installation



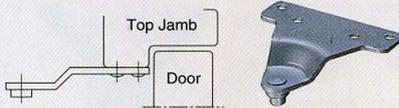
- Standard models with some exceptions can open to a maximum of 180°. The Track Rail Type and some standard Installation cannot open a maximum of 180°. Refer to the explanation of each series and select the most suitable models.

■ Bracket and Arm Selection Method

The bracket and arm shapes need to be selected according to the shape and dimensions of the top jamb. Select the most suitable bracket and arm models according to the conditions of the frame and door.

Standard Bracket

A bracket mounted onto the bottom (door rebating) of the doorstop on a standard-shaped top jamb.

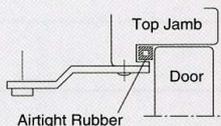


Stepped Bracket (A)

A bracket mounted to the bottom of a top jamb that has a narrow doorstop with a door rebating (dotted part).

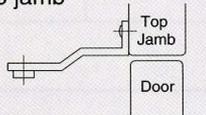


Airtight Door Bracket (AP)



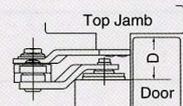
Angle Bracket (L)

Mounted to the front side of the top jamb



Stepped Arm (K)

Used if a wide dimension (D) cannot be secured.

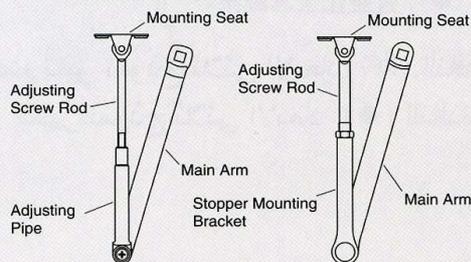


■ Arm Shapes and Names of Parts

Standard Installation

Without Hold-open

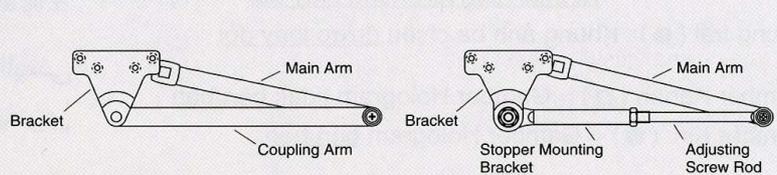
With Hold-open



Parallel Installation

Without Hold-open

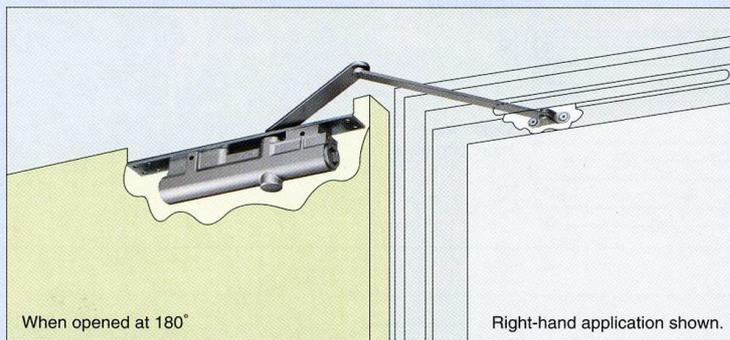
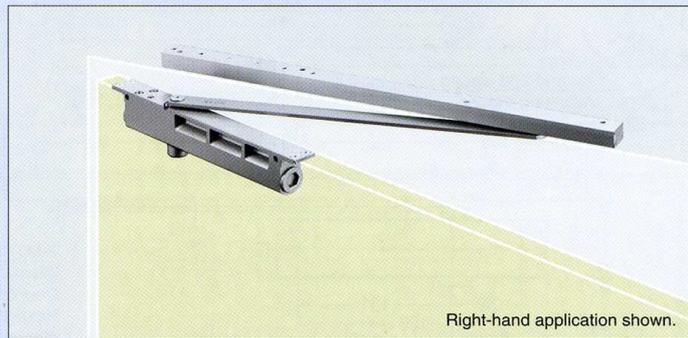
With Hold-open



DOOR CLOSERS

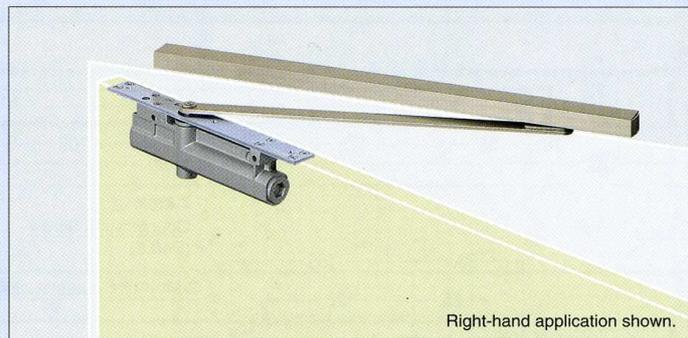
Concealed Type

161 Series (Closer 28 mm in size)



CTA

60 Series



Door Closing Speed Adjustment

Speed Adjusting Valves

Trouble-free adjusting of speeds by simply turning the speed adjusting valves to the right or left.

There is the right and left hand.

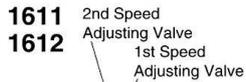
Model Number		Applicable Door Dimensions DW×DH mm	Maximum Door Weight kg	Door opening angle	Latching Function	Backcheck Function
Without Hold-open	With Hold-open					
CL-1611	CLS-1611	800×1800	30	105°~180°	×	×
CL-1612	CLS-1612	900×2100	45		×	×
CTA-64	—	1050×2400	85	180°	○	×
* CL-62N	* CL-162N	900×2100	45	95°	○	×
* CL-63N	* CL-163N	950×2100	65		○	×
* CL-64	* CL-164	1050×2400	85		×	×
CL-65	—	1200×2400	120	105°	○	○
CL-66	—	1800×2700	180	90°	○	○

(Note) * Export use model

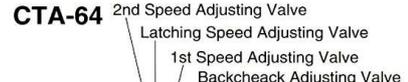
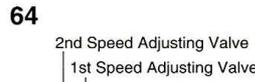
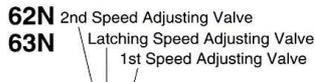
• When using on an exterior door, use a model for a door size one larger than the actual size of the door.

Adjustment of Closing and Latching Speeds

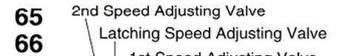
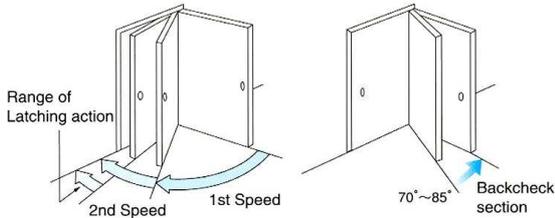
Use the provided tool (hexagonal wrench key) in the case of making adjustments.



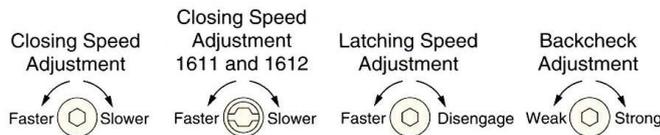
Hexagonal wrench key with diagonal length of 3 mm



Hexagonal wrench key with diagonal length of 4 mm
The backcheck of the CTA-64 does not function.



Hexagonal wrench key with diagonal length of 4 mm

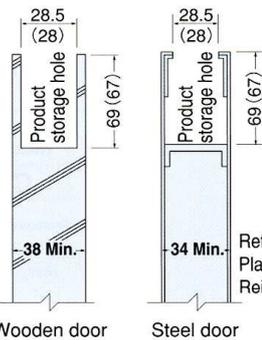


* Backcheck start angle varies with the hanging hook and thickness of the door.

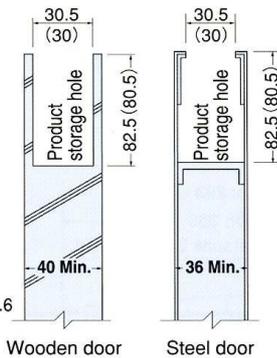
- A concealed type, the main part of which is inserted into the upper frame of the door.
- No metal parts are exposed when the door is closed, which will not spoil the outlook of the door.

Minimum door thickness Values in parentheses are product dimensions

1611
1612

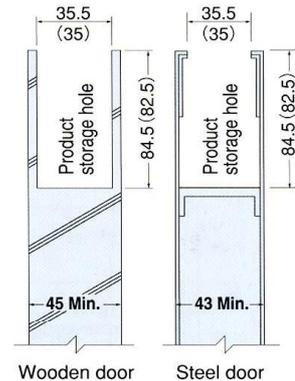


62N
63N

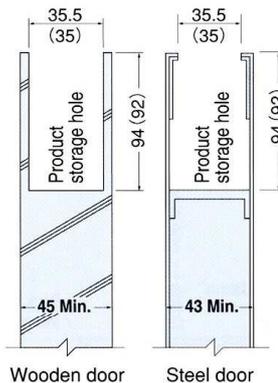


Reference example:
Plate thickness t=0.8
Reinforcement plate t=1.6

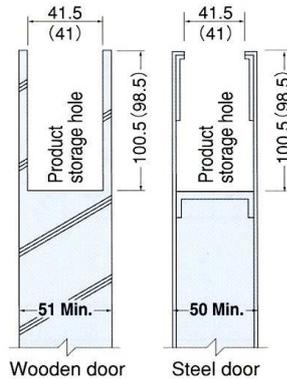
64



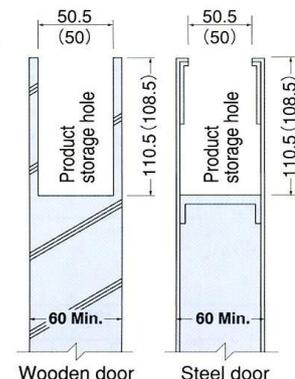
CTA-64



65



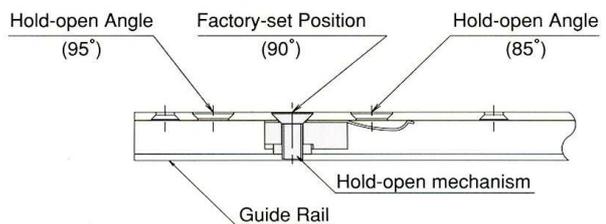
66



Unit : mm

Hold-open Angle Adjustments (CL-162N, CL-163N, and CL-164) (For Export use model only)

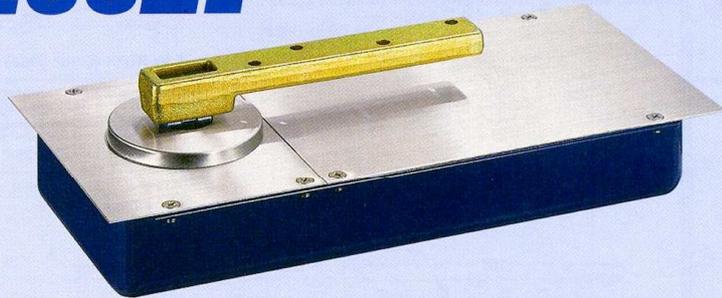
Possible to make adjustments by changing the mounting position of the hold-open mechanism (hold-open spring).



FLOOR HINGES

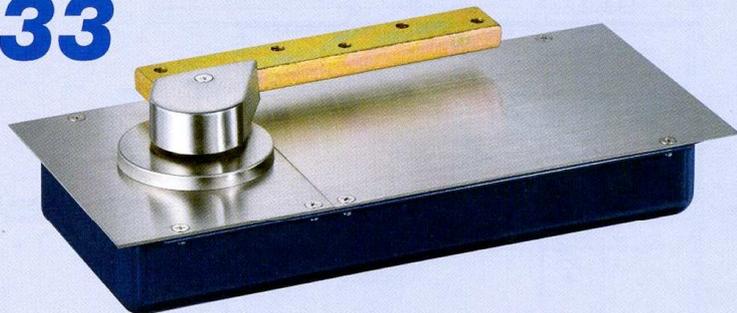
H-211ZI~233ZI

Center-Hung Floor Hinges
for Inward and Outward
Opening
(Export use model)

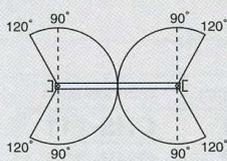


OH-211~233

Offset-Hung Floor Hinges
for One-side Opening
(Export use model)



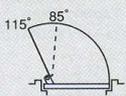
■ H-211ZI,222ZI,233ZI



Without Hold-open
Center-hung
120° inward and
outward opening

With Hold-open
Center-hung
90° hold-open
120° inward and
outward opening

■ OH-211,222,233



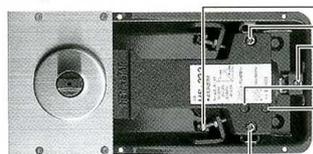
Without Hold-open
Offset-hung
115° single-action

With Hold-open
Offset-hung
85° hold-open
115° single-action

- The thickness of these floor hinges has been further reduced for installation on a thin slab.
- Two-valve function allows easy closing speed adjustment.
- The inner structure of this hinge has been specially designed to ensure durable operation.

Model Number		Applicable Door Dimensions DW×DH mm	Maximum Door Weight kg
Without Hold-open	With Hold-open		
H-211 ZI	HS-211 ZI	900×2100	70
H-222 ZI	HS-222 ZI	950×2100	105
H-233 ZI	HS-233 ZI	1050×2400	150
OH-211	OHS-211	900×2100	70
OH-222	OHS-222	950×2100	105
OH-233	OHS-233	1050×2400	150

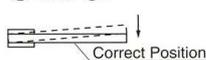
Adjustment Procedure



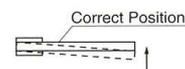
- ③ Parallel Alignment Adjusting Screw
- ① Closed Position Alignment Adjusting Screw
- ④ Parallel Alignment Adjusting Screw
- 1st Speed Adjusting Valve
- 2nd Speed Adjusting Valve
- ② Closed Position Alignment Adjusting Screw

1. Closed Position Alignment

Loosen the parallel alignment adjusting screws ③ and ④. Then, proceed to adjust with closed position alignment adjusting screws ① and ②.

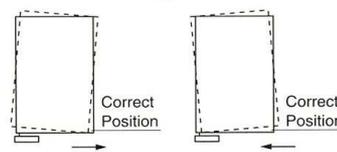


1. Loosen screw ②.
2. Tighten screw ①.



1. Loosen screw ①.
2. Tighten screw ②.

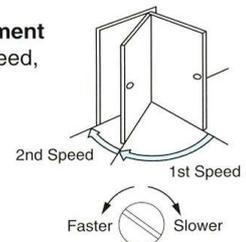
Parallel Alignment



1. Loosen screw ④.
 2. Tighten screw ③.
1. Loosen screw ③.
 2. Tighten screw ④.

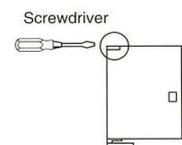
2. Closing Speed Adjustment

To adjust the closing speed, turn the closing speed adjusting valves to the right or left.



Note

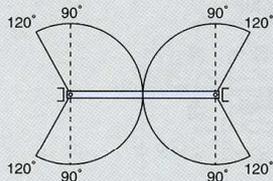
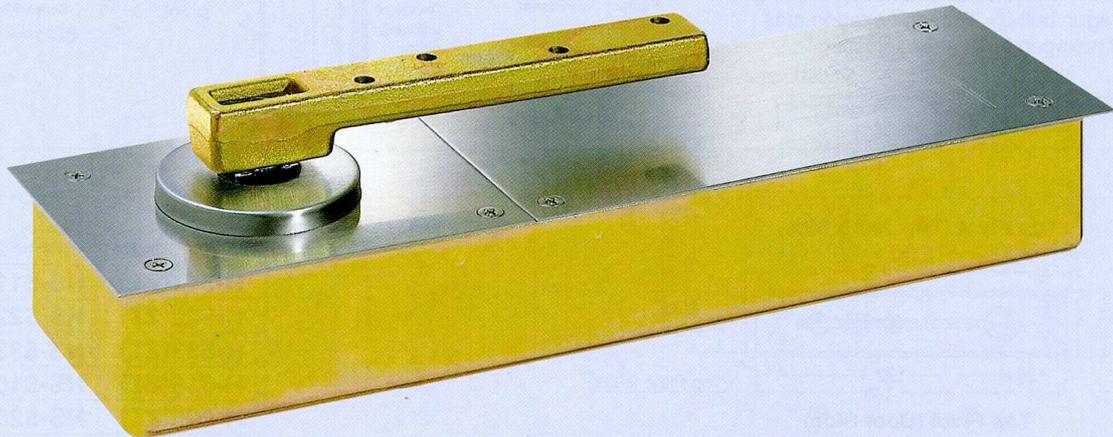
Parallel alignment can be adjusted by means of the top pivot.



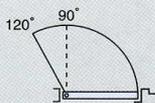
FLOOR HINGES

500 Series

Center-Hung Floor Hinges
for Inward and Outward Opening · One-side Opening



Center-hung
90° hold-open
120° inward and outward opening



Center-hung
90° hold-open 120° single-action
Right or Left hand

Determination of Door Hand



There is the right and left hand.
(for H(S)-515,H(S)-525,H(S)-535 only)

- A narrow type with 100mm in width: accommodated to a front narrow frame.
- The thickness of these floor hinges has been further reduced for installation on a thin slab.
- Two-valve function allows easy closing speed adjustment.
- Three-valve system for closing speed adjustment of single-action doors. Latching speed during the last two to three degrees of motion adjustable to assure closure. Ideal for airtight doors with electric locks, etc.
- Closing position of the door is adjustable after hanging by making a simple adjustment to the main body alone.
- Type Z is also available, with which alignment can be adjusted by means of the top pivot.

Model Number				Applicable Door Dimensions DW×DH mm	Maximum Door Weight kg
Double-action		Single-action			
Without Hold-open	With Hold-open	Without Hold-open	With Hold-open		
H-511	HS-511	*H-515	*HS-515	900×2100	70
H-522	HS-522	*H-525	*HS-525	950×2100	105
H-533	HS-533	*H-535	*HS-535	1050×2400	150
H-511 ZI	HS-511 ZI	*H-515 ZI	*HS-515 ZI	900×2100	70
H-522 ZI	HS-522 ZI	*H-525 ZI	*HS-525 ZI	950×2100	105
H-533 ZI(*)	HS-533 ZI(*)	*H-535 ZI(*)	*HS-535 ZI(*)	1050×2400	150

(Note) *Export use model.

• Those models marked with asterisk (*) are handed.

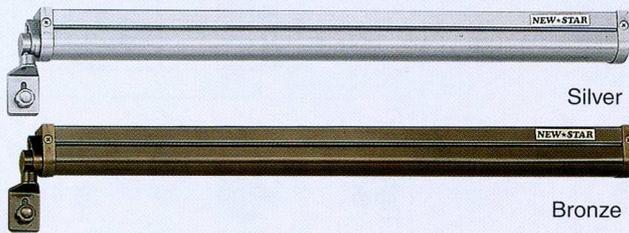
• Floor hinges for stone tile flooring, floor hinges for carpeted flooring, and aqua hinges are available as well.

SLIDE CLOSER TYPE III

Automatic Closing Device for Horizontally Sliding Door

Convenient Feature of Sliding Door Closer

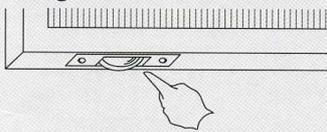
- Can be fitted to installed light-weight doors in homes, etc.
- Applicable for doors with a stroke of 590—880mm and a door weight of 20—40kg.
- Product available in one standard length.
- Same unit can be fitted to right or left hand door panel. Opening/Closing force and speed adjustable.
- Applicable for doors that can be opened freely using 7N of force or less.



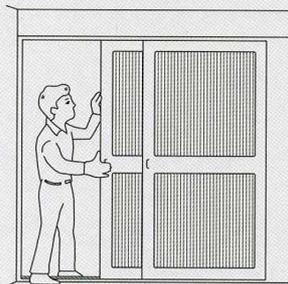
Available in two colors (Silver and Bronze).



Before mounting doorcloser, check door is in good working order as follows:



- Check door wheels and oil if necessary.
- Check that sliding rail is clear and clean.



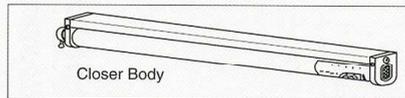
- Check alignment of doors with each other and with doorway frame.
- Check sliding action by lightly pushing door. It should close smoothly and rebound slightly.

Never use the product in places with excessive dust or moisture, such as bathrooms, saunas, and swimming pools.

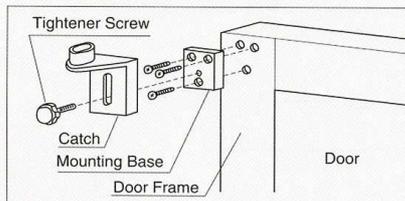
INSTRUCTIONS FOR MOUNTING

STEP 1. Mount closer body and catch.

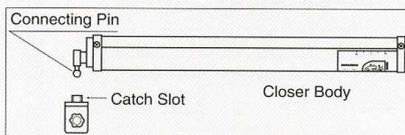
- (a) Attach closer body to upper crosspiece of doorway so that connecting pin overhangs edge of top jamb on side toward which door opens.



- (b) Attach mounting base and catch to upright of door frame on side toward which door opens.

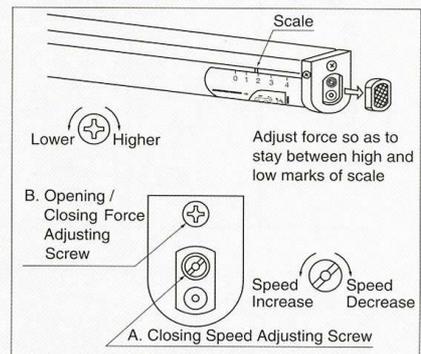


STEP 2. Insert connecting pin of closer body into slot of catch and tighten.

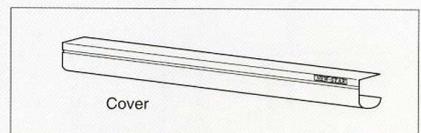


STEP 3. Checking and adjusting of closing action.

- A. Speed Adjustment
 B. Opening/Closing Force Adjustment
- Make adjustment within a scale range of 0 to 4.
 - Do not loosen the screw excessively, or otherwise the screw will fall off.
 - The scale is set to 2 before shipping.



STEP 4. Attach cover to closer body.



DW×DH mm	Door Weight kg
900×2100	20~40