LAMP

FOR HES3D-190 CONCEALED HINGE (3-DIMENSIONAL ADJUSTABLE HINGE)

Read all instructions carefully for proper use.

COMPONENT PARTS

· CONCEALED HINGE 2 pc

• Flat Head Screw (M4.8×25) 8 pcs×2 sets

Hex Key (Nominal M4)
 1 p

Template 1 pc

· INSTALLATION MANUAL

ITEM NO. / FINISH

ITEM NO.	FINISH
HES3D-190SL	Silver
HES3D-190GL	Gold

DOOR SPECIFICATIONS

Maximum Door Weight :		70kg(154lbs)
		Recommended door dimensions (2 hinges per door):
	90kg(198lbs)	
	90kg(196lb5)	
	Recommended door dimensions (3 hinges per door):	
	Minimum Door Thickness	36mm (1-7/16")
	Maximum Door Height :	2400mm (94")
	Maximum Door Width:	900mm (36")

ADJUSTMENTS

Vertical adjustment	±3mm
Horizontal adjustment	+3mm, -2mm
Backward / forward adjustment	±1mm

- A WARNINGS

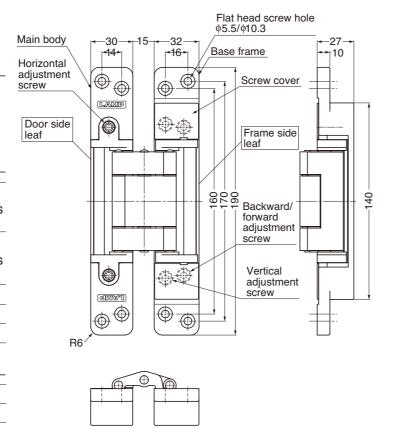
Do not install hinge in exposed location; i.e., exposed to rain or snow.

Before installing hinges in conjunction with an automatic door closer, check that door specifications suit both the automatic door closer and hinges.

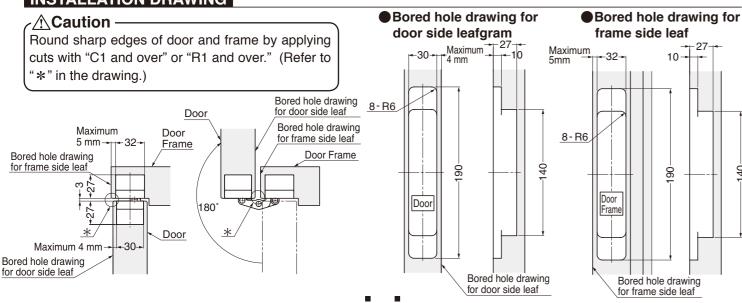
Opening/closing with excessive force may cause malfunction.

After completed installation, occasionally check that screws remain fixed tightly.

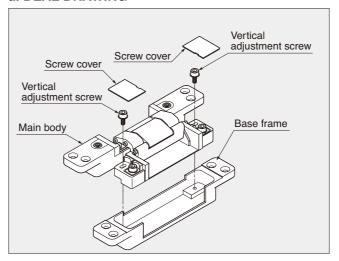
HINGE PARTS



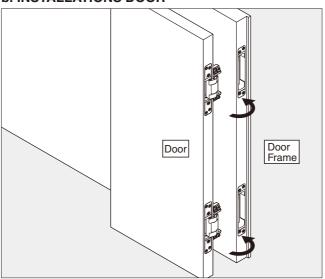
INSTALLATION DRAWING



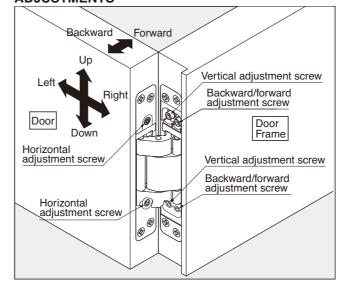
a. DEAL DRAWING



b. INSTALLATIONS DOOR



ADJUSTMENTS



INSTALLATION PROCESS

Remove screw cover and vertical adjustment screw from hinge body. Separate door side leaf and base frame. Repeat process for remaining hinge.

Install door side leaf into the bored hole of the door with installation screws (Flat head M4.8 X 25). Then, with screws, install the base frame into the bored hole of the door frame. Repeat process for remaining hinge.

Refer to Figure B. Temporarily hang the door by inserting both upper and lower main hinge bodies into the upper and lower base frames at the same time. The door will be temporarily held in place by the easy installation function.

Insert vertical adjustment screws (removed in Step 1) into vertical adjustment holes. With a hex key (M4), loosely fasten screws to temporarily hold frame side leaf in place.

∠ Caution -

Make sure the base frame will be set firmly in the proper direction before installing into the bored hole of the frame.

Do not open/close door with excessive force, or door may fall.

ADJUSTMENTS

Make adjustments in each (vertical and backward/forward) direction.

Vertical adjustment

Using hex key (M4), loosen vertical adjustment screw just one turn. Temporarily hold door in place during adjustment of door height by inserting a piece of wood in gap between floor and bottom of door. Then tighten screws. Fastening torque is 4.9N·m (50kgf·cm).

Backward/forward adjustment

Loosen backward/forward adjustment screw just one turn using hex key (M4). Adjust the door. Then tighten screws. Fastening torque is 4.9N·m (50kgf·cm).

∕∴Caution -

To prevent door from falling, do not remove backward/forward adjustment screw.

Horizontal adjustment

To widen the gap between door and door frame (on the hinged side of door), turn the horizontal adjustment screw in clockwise direction. (Maximum adjustment is 3 mm). To narrow the gap, turn the screw in counter clockwise direction.

Gently turn adjustment screws, alternating from one screw to the other and back again. Do not force turning of screws.

Do not loosen adjustment screw (Maximum adjustment is 3mm) in clockwise direction, or door may fall.

Finally, replace screw cover.

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