

LAMP® INSTALLATION MANUAL FOR HES3D-W190 CONCEALED HINGE

Thank you for using our product. Before 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 concealed hinge for indoor use, that is recessed into the door and doorjamb.
- Three dimensional adjustment function allows vertical, horizontal, and depth adjustment.
- UL certified - No. R38588

DOOR SPECIFICATION

Min. Door thickness	42 mm
Max. Door weight	100 kg per 2 hinges, 125 kg per 3 hinges
Max. Door size	Width: 915 mm, Height: 2440 mm

FOR YOUR SAFE WORK AND CORRECT INSTALLATION

Meaning of symbols

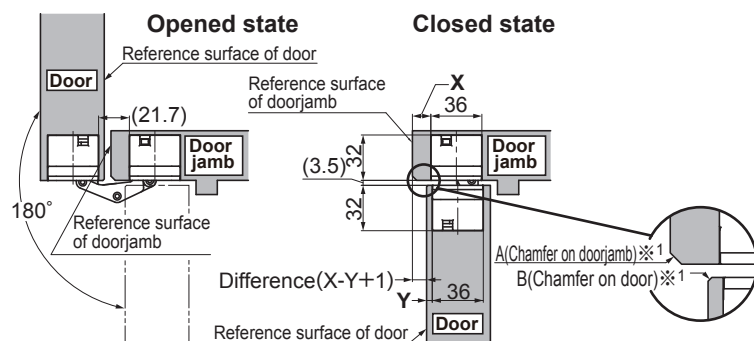
	Warning Caution
	Prohibited
	Required

Caution: If not followed, injury or damage may result.

-  Provide a jamb that can withstand the weight and impact of opening and closing the door. Be sure to use the specified screws and tighten them securely. If the mounting strength is insufficient, the door may fall and cause injury.
-  Do not use this product for any other purpose, or with doors that are outside the specifications of this manual.
-  Use in conjunction with a door closer is not recommended. For soft-close option, we recommend Sugatsune LDD-V100 door damper.
-  Follow the specified dimensions, specifications, and alignment of the door and jamb. Warping, tilting or twisting of the jamb or door may cause failure.
-  This product is a part for architectural fittings. After installation, please check the function and safety of the final product. Please inform the end user how to use the product safely.
-  Make sure to check the screws for slack at regular intervals (one month from first usage, half a year, and then one time every year is recommended).

INSTALLATION DRAWING (EXAMPLE)

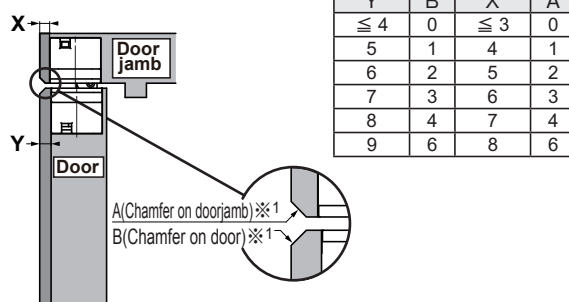
[When door is offset from doorjamb]



※ 1 Chamfer is needed depending on the amount of X and Y.

[When attaching decorative board on door and doorjamb]

Closed state



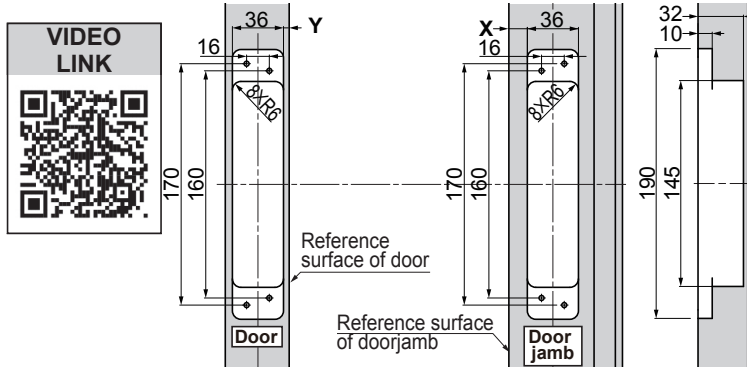
Y	B	X	A
≤ 4	0	≤ 3	0
5	1	4	1
6	2	5	2
7	3	6	3
8	4	7	4
9	6	8	6

Y	B	X	A	Difference (X-Y+1)
3	0	3 - 12	0	1 - 10
		13	1	11
		14	2	12
		15	4	13
4	1	3 - 10	0	0 - 7
		11	1	8
		12	2	9
		13	3	10
5	2	3 - 6	0	-1 - 2
		7	1	3
		8	2	4
		9	3	5
6	3	3 - 6	0	-1 - 2
		7	1	3
		8	2	4
		9	3	5

Y	B	X	A	Difference (X-Y+1)
3	0	3 - 6	0	-2 - 1
		7	1	2
		8	2	3
		9	3	4
4	1	3 - 6	0	-2 - 1
		7	1	2
		8	2	3
		9	3	4
5	2	3 - 6	0	-3 - 0
		7	1	1
		8	2	2
		9	3	3
6	3	3 - 6	0	-3 - 0
		7	1	1
		8	2	2
		9	3	3

CUT OUT DRAWING FOR DOOR AND DOORJAMB

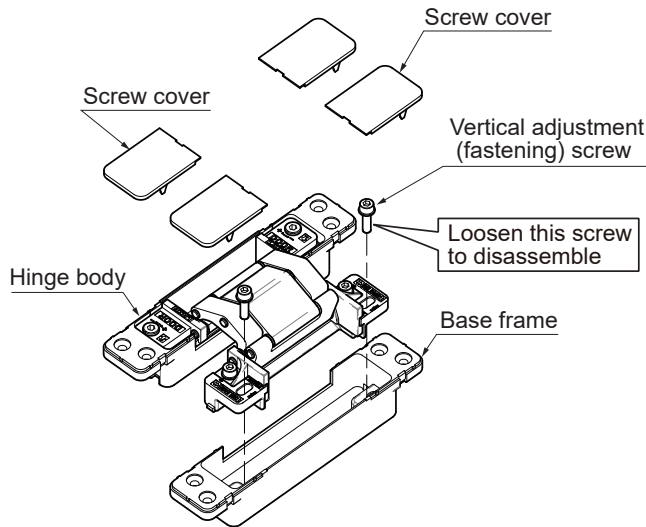
Refer to the left table about X and Y.



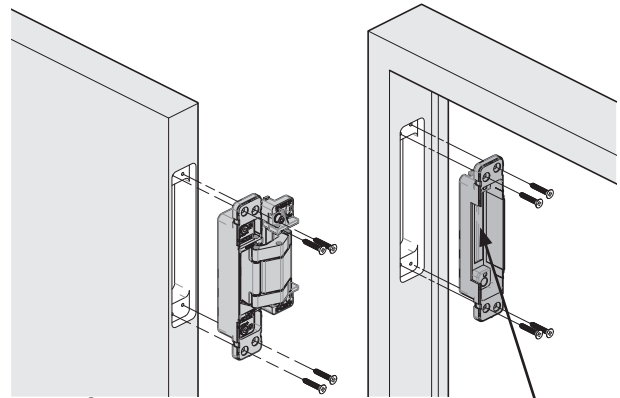
When not using the installation template HES3D-W190-TMP (sold separately) drill pilot holes at the installation screw locations.

INSTALLATION PROCEDURE

1 Disassembly of Hinge



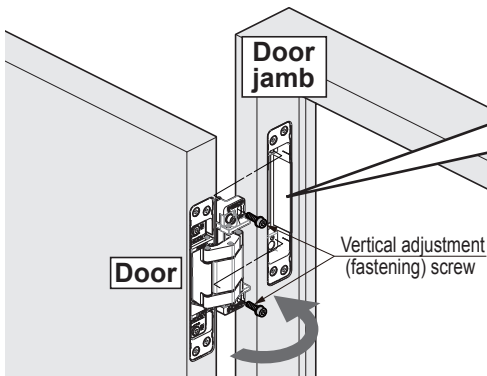
2 Installing Hinge to Door and Doorjamb



Caution

- ❗ Before installing base frame into the Doorjamb, check that it is oriented correctly. If the orientation is incorrect, the door cannot be installed.

3 Hanging Door



- [1] Insert each hinge body (door side) deep into the base frame.
- [2] Hang the hinge body on the base frame. (Provisional holding state).

Caution

- ❗ Do not move the door at this stage as it may fall off.

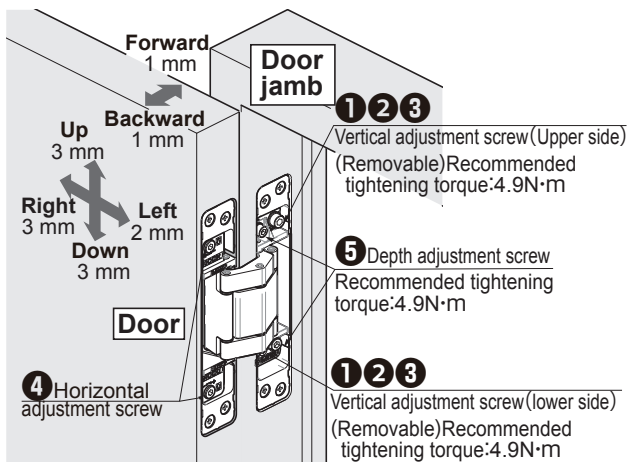
- [3] While supporting the door, quickly tighten and secure the up and down adjustment screws to the position shown on the left.

VIDEO LINK



ADJUSTING DOOR POSITION

※ The arrows should point in the direction of adjustment when the door is closed.



①—⑤ is the order of adjustment. Please put a supporting spacer under the door when adjusting it. There are two adjustment screws on one hinge.

Vertical adjustment

- ① Loosen the adjusting screw one turn.
- ② Lifted the door to the correct height.
- ③ Finally, secure the adjusting screw.

Horizontal adjustment

- ④ Rotate the adjustment screw to the correct position.

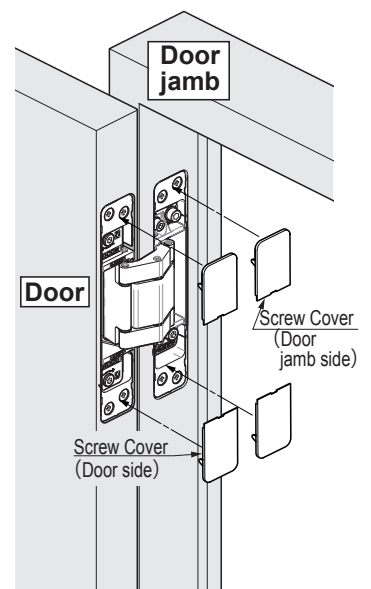
Depth adjustment

- ⑤ Loosen the adjusting screw one turn and secure it in the optimum position.

Caution

- ❗ When adjusting the horizontal position, turn the two screws a little, by the same amount. The hinge may be broken if you keep turning one screw only. If you turn the adjustment screw to the right beyond the adjustment range, the parts will protrude, and the cover won't fit, and if you turn it further, the door will come off.
- ⊘ Do not remove the depth adjustment screw. The door may fall and cause injury.

Attaching the Screw Cover



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