

For proper installation and your own safety, read this manual carefully and follow the instructions.

- The HES3D-V135 is a concealed hinge for indoor doors as specified below. Sugatsune declines responsibility for any malfunction, accident or injury caused by use others than originally intended for.
- The utmost care was taken during the production of this hinge. However, should you find any defects, please immediately contact your local retailer for replacement.
- The Warranty period is one year after shipment date. Sugatsune's liability shall be limited to replacement of the product and will in no case extend to the assembly as a whole.

CAUTION:

- ! For indoors use only. Do not use in locations where it is in direct contact with water.
- ! Operation temperature range is -10°C ~40°C.
- ! When using a door closer, always test the final assembly. For soft-closing option, we recommend the use of the Sugatsune LDD-V door damper.

Parts list

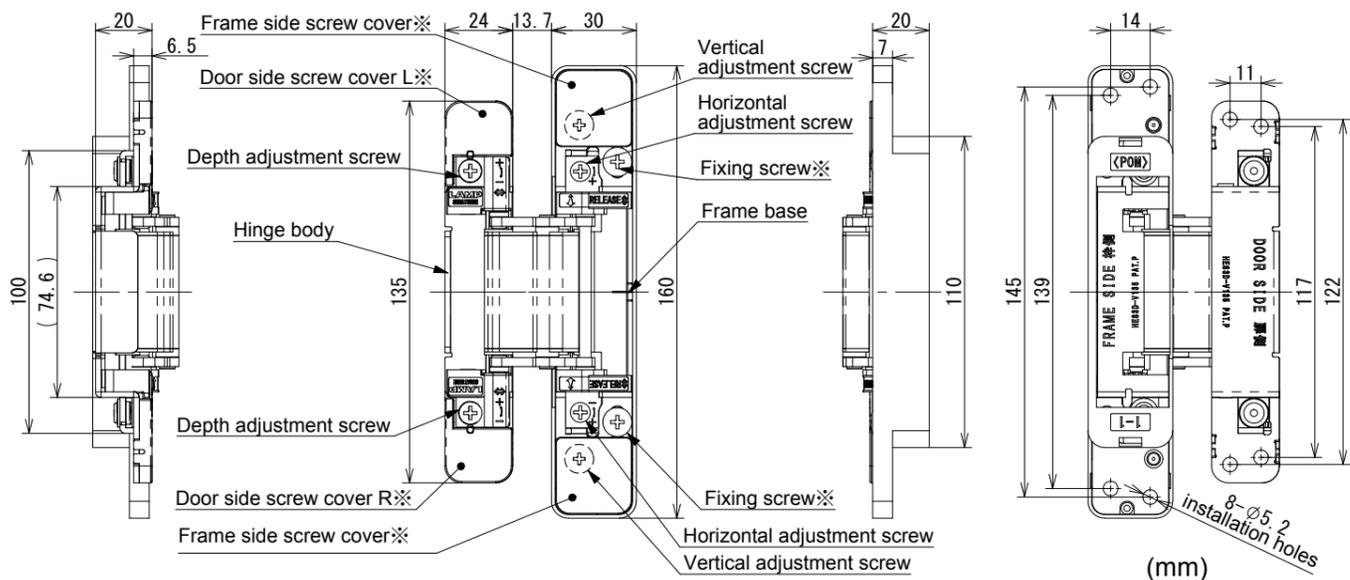
- Concealed hinge: 2 pcs
- Frame side screw cover: 2 pcs / hinge
- Cutout template: 1
- Installation screws (cross recessed binding head tapping screws 5x15): 8 pcs / hinge
- Door side screw cover L and R: 1 set / hinge
- Fixing screws: 2 pcs / hinge
- Installation manual (this manual): 1

Door specifications

- Maximum door weight: 40 kg (2 hinges use)
- Minimum door thickness: 30 mm
- Maximum door width: 900 mm
- Maximum door height: 2400 mm

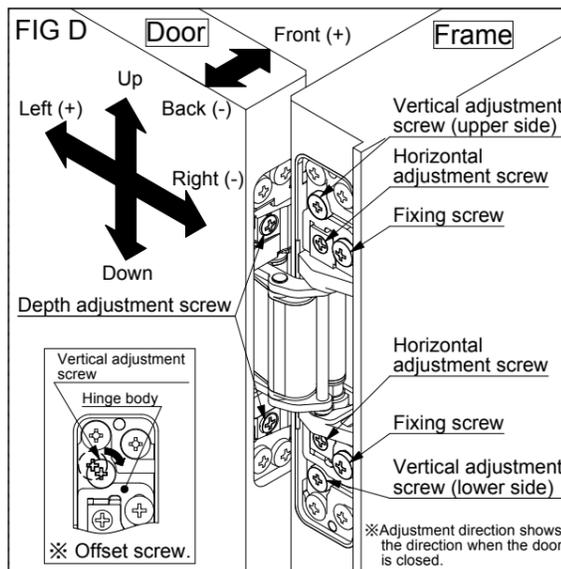
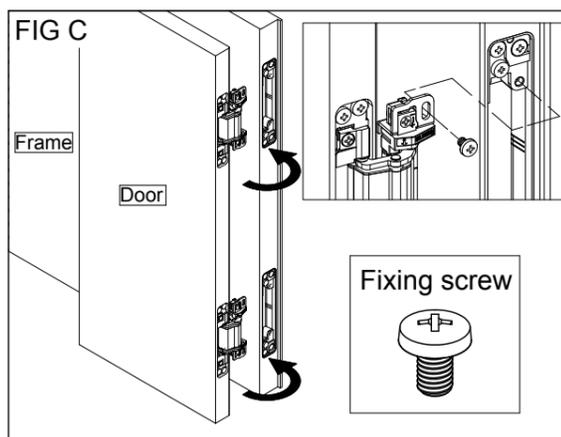
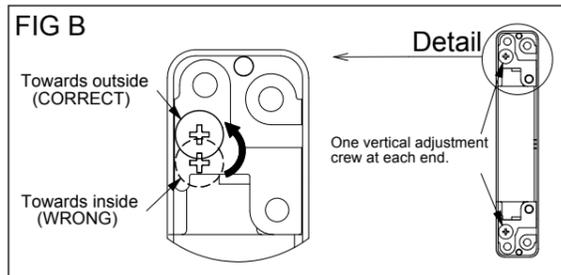
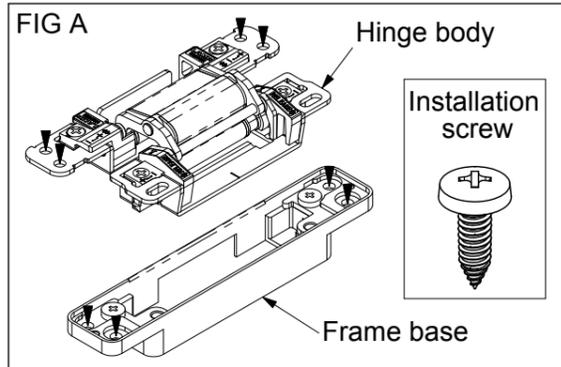
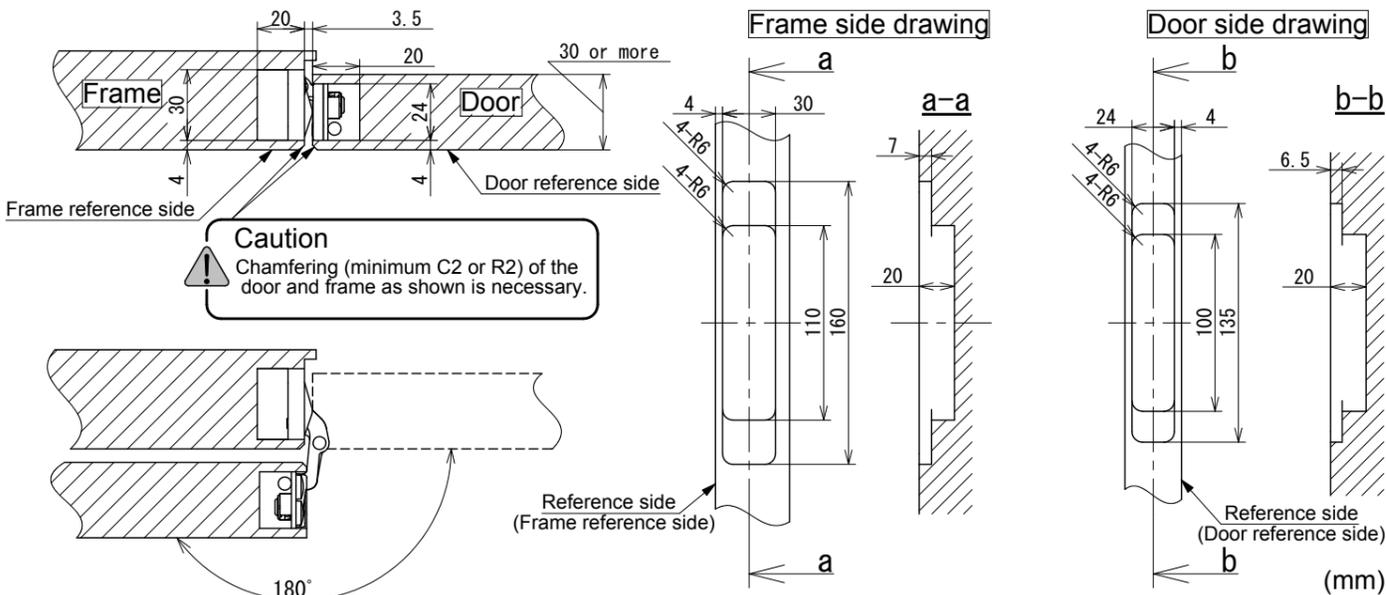
Hinge Dimensions

※ Screws and screw covers are packed separately.



Cutout and installation drawings

※We recommend that you use the provided template for easier installation.



Installation Procedure

1. Separate the hinge body marked as "Door Side", from the frame base marked as "Frame Side"(FIG. A).
2. Insert the frame base in the frame cutout. Height adjustment screws should be closer to the frame reference side (Fig. C). Make sure that the height adjustment screws are set as shown on Fig. B and secure the frame base to the frame with 4 fixing screws
3. Insert the hinge body in the door cutout (Fig. C) and fasten securely using 4 fixing screws.
4. Turn the hinge body as shown on Fig. C and insert the hinges body completely in the frame bases simultaneously at the top and bottom. By lowering the door slowly in that position, the door should be held in place.

⚠ Caution: DO NOT MOVE THE DOOR AT THIS STAGE AS IT MAY FALL OFF.

5. Slightly tighten the fixing screws through the oval holes of the hinge body (FIG. C).

⚠ Caution: ONLY OPEN OR CLOSE THE DOOR CAREFULLY AS IT IS NOT PROPERLY SECURED AT THIS STAGE.

Adjustment Procedure

Door can be adjusted in all three dimensions (FIG D). Adjustment directions shown in Fig. D are the ones when the door is closed. Direction (+) or (-) is indicated near adjusting screw.

1. Vertical adjustment (±3 mm)
Make sure fixing screws are only slightly tightened. Lift the door and adjust its height by turning the vertical adjustment screw (lower side), then firmly tighten all fixing screws. Lastly, move the vertical adjustment screw (upper side) to the inner direction so that it touches the hinge body.
2. Horizontal adjustment (+2 mm – 1.5 mm)
Turn the horizontal adjustment screw right (+) to increase and left (-) to decrease the gap between the side frame and the door.

⚠ Caution: DO NOT UNSCREW THE ADJUSTMENT SCREW COMPLETELY AS THE DOOR MAY FALL OFF.

3. Depth adjustment (+1 mm –4 mm)
Turn the depth adjustment screw left (+) for front and right (-) for back adjustment.

⚠ Caution: DEPTH ADJUSTMENT MUST BE CARRIED OUT BY TURNING THE SCREWS IN TURN AND BIT BY BIT.

4. Additional tightening
After adjustment, make sure that all fixing screws are securely tightened (recommended fastening torque is 1.5~2.0 Nm).

Cover installation

Attach covers on the hinge and frame side as shown on the hinge dimension drawing. Pay particular attention to the Left and Right covers for the door side.

⚠ Caution: DO NOT APPLY EXCESSIVE FORCE WHEN INSTALLING OR REMOVING THE COVERS.

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