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:**

1. For indoors use only. Do not use in locations where it is in direct contact with water.
2. 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
- Fixing screws: 2 pcs / hinge
- Door side screw cover L and R: 1 set / hinge
- Frame side screw cover: 2 pcs / hinge
- Installation screws (cross recessed binding head tapping screws 5x15): 8 pcs / hinge
- Frame side screw cover (cross recessed binding head tapping screws 5x15): 6 pcs / hinge
- Door side screw cover L and R: 1 set / hinge

### Door specifications

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

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

### Adjustment Procedure

Door can be adjusted in all three dimensions (FIG D).

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.

3. Depth adjustment (+1 mm - 4 mm)

   - Turn the depth adjustment screw left (+) for front and right (-) for back adjustment.

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.
- MAKE SURE Fixing screws are SECURED AT THIS STAGE.