# LAMP

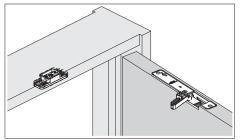
 $LDD\text{-}V_{\text{\tiny{B}}} \quad \text{\tiny{(Lapcon\ Door\ Damper)}} \quad \text{Installation\ instructions}$ 

Thank you for selecting our product. Before starting installation, please read this manual thoroughly to ensure correct installation.

### **Product introduction**

- Recessed type door damper completely concealed when the door is closed.
- When installed together with our HES3D concealed hinges, all the hardware is hidden for clean appearance.
- Damper unit will pull and close the door smoothly and firmly right before closing (within about 10°) and prevents slamming.



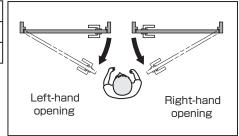


#### **Specifications**

Maximum door width	900mm (36")	
Minimum door thickness	33mm (1-5/16")	
Door weight range	15-40kg (33.6-88lbs.)	

● Operating temperature is 0 to 40°C.

Item No,	Type
LDD-V-R	Right handed opening
LDD-V-L	Left handed opening



# FOR YOUR SAFE WORK AND CORRECT INSTALLATION

- This symbol denotes prohibited actions. This symbol denotes what must be done.
- $|\cdot|$  If these cautions are not followed, it may result in injury or damage,
- · This product is for indoor use only. Do not use outdoors where the item is exposed to the weather.
- · Do not use in a windy place as strong wind decreases the damper function.
- · Do not close the door with excessive force. It may cause damage or defect to soft close mechanism.
- $oldsymbol{ol}oldsymbol{ol}ol{oldsymbol{ol}}}}}}}}}}}}}}}}}}}}}}$ horizontal and verticals angles. Make sure that the frame is not warped, since it may affect the movement of the door.
- $oldsymbol{\Theta}$  · Make sure to test the screws for slack at regular intervals (one month from first usage, half year and then one time every year is recommended).

## **Parts List**

The following list indicate the right hand hinge for right side door hang. For left side door hang, a mirror image.]

No.	1	2	3	4	(5)	6	7
Product name	Door damper main unit	Counter plate	Counter plate cover	Binding head tapping screw (nominal 3.5×20)	Binding head tapping screw (nominal 4×45)	Cutout template (door side, frame side)	Installation instruction (this book
Parts							
Quantity	1	1	1	2	2	1	1

	No.	1)	2
	Product name	Mortise jig (template)	Adjustment jig L / R (figure shown is for R)
Optional Accessory (Sold separately)	Parts	<ul><li>* Provides easy mortise</li></ul>	** Provides easy adjustment.
		cutting by router.	× Flovides easy adjustifiert.
		^	



Flathead screwdriver



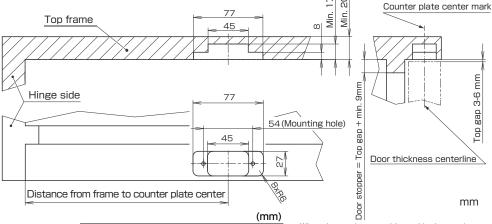
Open-end wrench (8mm, 14mm)

Router · Trimmer

### Preparation of frame

Phillips screwdriver

The following dimensions and procedures indicate the right hand hinge for right side door hang. For left side door hang, a mirror image.]

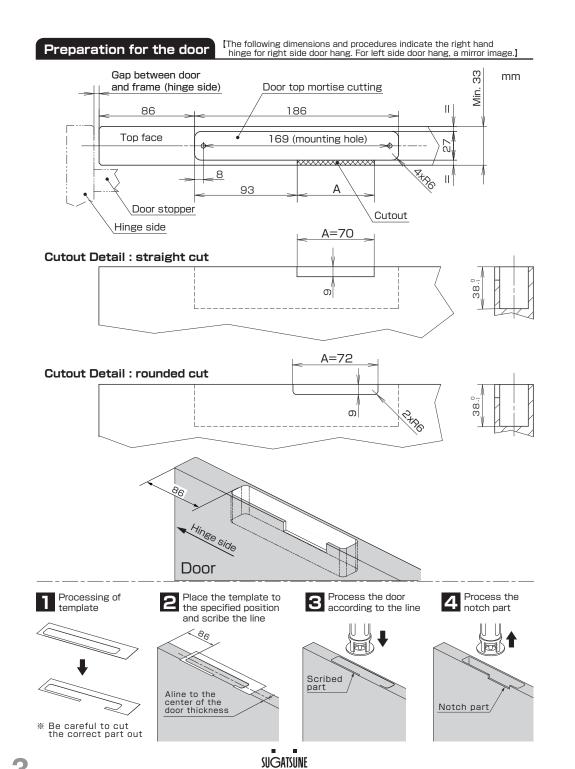


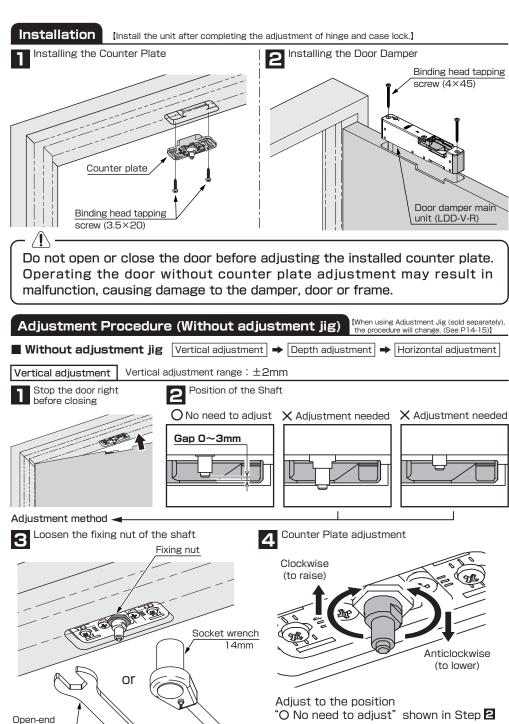
	Gap between hinge side door and frame				
	1	2	3	4	5
HES3D-120	220	221	222	223	224
HES3D-160 HES3D-190	221	222	223	224	225
HES3D-V135	218	219	220	221	222
Butt hinge	224	225	226	227	228

\* When the gap between hinge side door and frame is over 5mm, refer to the chart below.

Hinge	Distance from frame to counter plate center
HES3D-120	219 mm + gap size
HES3D-160 HES3D-190	220 mm + gap size
HES3D-V135	217 mm + gap size
Butt hinge	223 mm + gap size

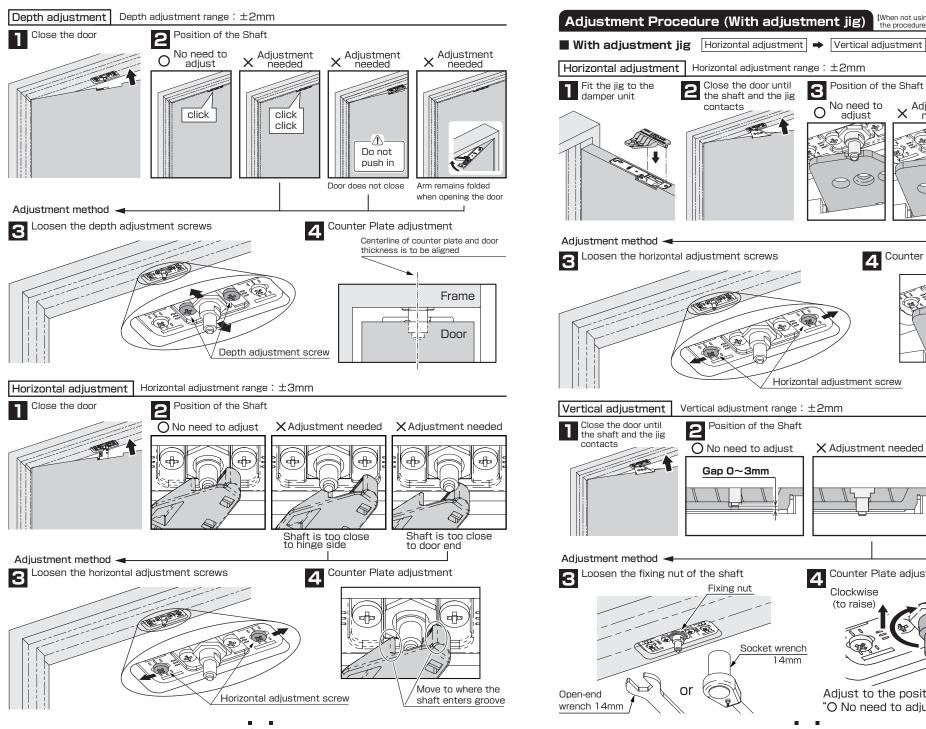






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wrench 14mm



Adjust until the Horizontal adjustment screw shaft fits the groove of the jig X Adjustment needed X Adjustment needed Counter Plate adjustment Clockwise (to raise Anticlockwise (to lower) Adjust to the position "O No need to adjust" shown in Step 2 SUGATSUNI

[When not using the adjustment Jig (sold separately),

Depth adjustment

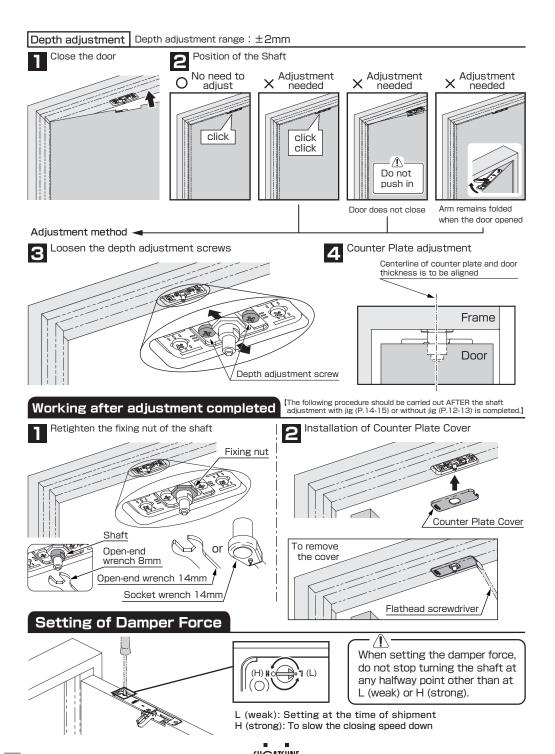
Adjustment

needed

the procedure will change. (See P.12-13)

X Adjustment

Counter Plate adjustment



## Trouble shooting

Problem	Cause	Solution		
	Mounting position is not correct	Check the mounting position and make adjustments. See P. 10-11.		
	Mortise measures are not correct	Check the mortise dimension and make adjustments. See P. 10-11.		
Unusual noise	Incomplete adjustment	Re-adjust the Vertical/Horizontal /Depth/Damper Force. See P.12-13,15(without jig) / P14-15 (with jig).		
	Counter plate fixation or/and Shaft fixing nut loose	Final tighten the shaft fixing nut after adjustment completed. See P.15 and tighten the nut securely.		
2 times click sound heard when closing	Improper depth adjustment	Depth adjustment of Shaft is needed. Depth adjustment range: ±2mm See P.13 (without jig) or P.15 (with jig).		
Shaft contacting the Arm bottom Shaft contacting the	Improper vertical adjustment (too low)	Vertical adjustment of Shaft is needed. Vertical adjustment range: ±2mm See P.12 (without jig) or P.14 (with jig).		
Left/Right wall of the Arm groove	Improper horizontal adjustment (one-sided)	Horizontal adjustment of Shaft is needed. Horizontal adjustment range: ±3mm See P.13 (without jig) or P.14 (with jig).		
Arm remains folded	Centerline of counter plate and door thick-ness is not aligned			
	Improper depth adjustment	Depth adjustment of Shaft is needed.  Depth adjustment range: ±2mm		
Door will not close completely	Centerline of counter plate and door thick- ness is not aligned	See P.13 (without jig) or P.15 (with jig).		
	Improper door size	Use a suitable door. See P. 9.		

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