# LAMP

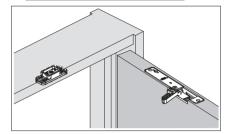
LDD-V<sub>®</sub> (Lapcon Door Damper) Installation instructions

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.



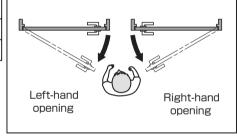


### **Specifications**

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



Warning Caution

**Prohibited** 



Required

## $\dot{\mathbb{N}}$ If these cautions are not followed, it may result in injury or damage.

- $\bigcirc$  · This product is for indoor use only.
  - Do not use outdoors where the item is exposed to the weather.
- O · Do not use in a windy place as strong wind decreases the damper function.
- $\bigcirc$   $\cdot$  Do not close the door with excessive force. It may cause damage or defect to soft close mechanism.
- $oldsymbol{\Omega}$   $\cdot$  Make sure to follow the designated measurements and specifications as well as horizontal and verticals angles. Make sure that the frame is not warped, since it may affect the movement of the door.
- $oldsymbol{\Omega}$   $\cdot$  Especially for the mortise cutting and cutout on the door, follow the specified dimensions. If the mortise is too deep, the arm may be caught in the mortise and the door cannot be opened.
- $oldsymbol{\P}$  · 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 instructions (this book)
Parts					(H)		
Quantity	1	1	1	2	2	1	1

	No.	①	2
Optional Accessory (Sold separately)	Product name	Mortise jig (template)	Adjustment jig L / R (figure shown is for R)
	Parts	* Provides easy mortise	
		cutting by router.	* Provides easy adjustment
		0	





Flathead screwdriver



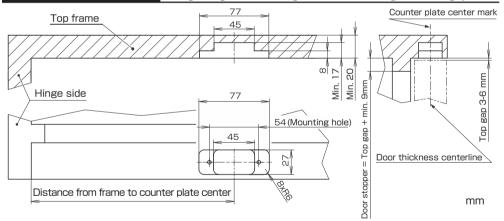
Open-end wrench (8mm, 14mm)



### 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.]



(mm)

Gap between hinge side door and frame 5 HES3D-120 220 221 222 223 224 HES3D-H120-36 HES3D-160 223 221 222 224 225 HFS3D-190 HES3D-V135 218 219 220 221 222 Butt hinge 224 225 226 227 228

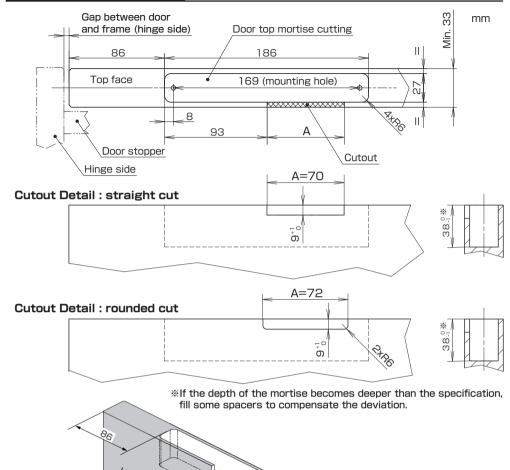
\* When the gap between hinge side door and

iranie is over Sinini, refer to the chart below.		
Distance from frame to counter plate center		
219 mm + gap size		
220 mm + gap size		
217 mm + gap size		
223 mm + gap size		

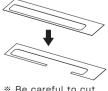


Preparation for the door

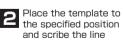
The following dimensions and procedures indicate the right hand hinge for right side door hang. For left side door hang, a mirror image.]



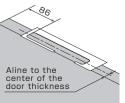


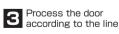


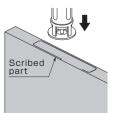
\* Be careful to cut the correct part out



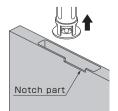
Door







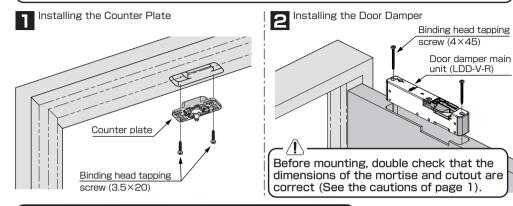
Process the notch part



Installation

Install the unit after completing the adjustment of hinge and case lock.

Do not open or close the door before adjusting the installed counter plate. Operating the door without counter plate adjustment may result in malfunction, causing damage to the damper, door or frame.



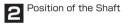
# Adjustment Procedure (Without adjustment jig)

[When using Adjustment Jig (sold separately), the procedure will change. (See P14-15)]

Vertical adjustment

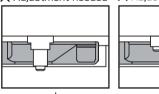
Vertical adjustment range: ±2mm

Stop the door right before closing





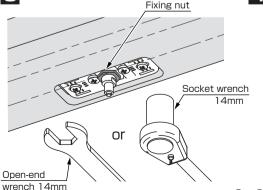
O No need to adjust X Adjustment needed X Adjustment needed Gap O~3mm

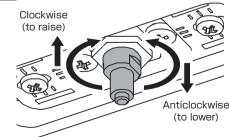


Adjustment method -

Loosen the fixing nut of the shaft

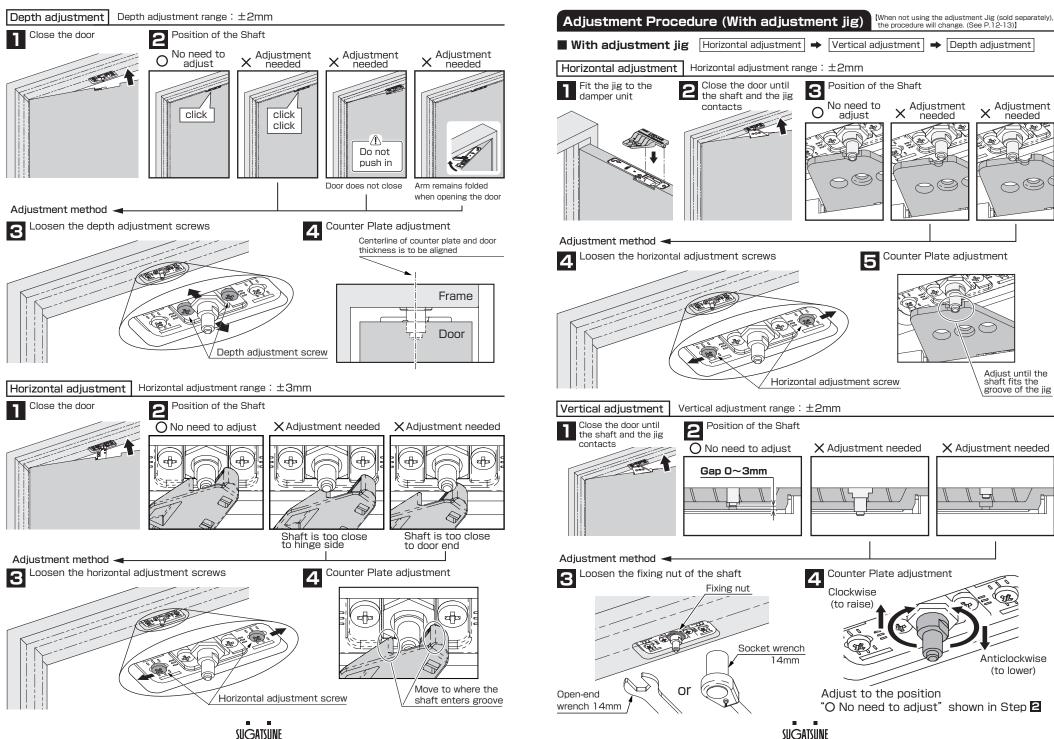
Counter Plate adjustment





Adjust to the position "O No need to adjust" shown in Step 2

SUGATSUNE



Depth adjustment

Adjustment

needed

Adjust until the

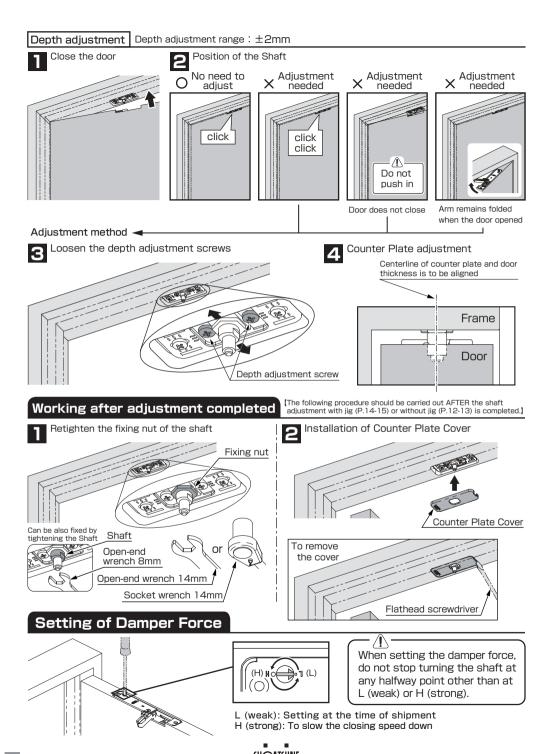
groove of the jig

shaft fits the

Anticlockwise

(to lower)

X Adjustment needed



### Trouble shooting

Problem	Cause	Solution	
Unusual noise	Mounting position is not correct	Check the mounting position and make adjustments. See P. 2-3.	
	Mortise measures are not correct	Check the mortise dimension and make adjustments. See P. 2-3.	
	Incomplete adjustment	Re-adjust the Vertical/Horizontal /Depth/Damper Force. See P.4-5,7(without jig) / P.6-7 (with jig).	
	Counter plate fixation or/and Shaft fixing nut loose	Final tighten the shaft fixing nut after adjustment completed. See P.7 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.5 (without jig) or P.7 (with jig).	
Shaft does not enter the groove of the Arm	Improper vertical adjustment (too low)	Vertical adjustment of Shaft is needed. Vertical adjustment range: ±2mm See P.4 (without jig) or P.6 (with jig).	
	Improper horizontal adjustment (one-sided)	Horizontal adjustment of Shaft is needed. Horizontal adjustment range: ±3mm See P.5 (without jig) or P.6 (with jig).	
Arm remains folded  Door will not close completely	Centerline of counter plate and door thick-ness is not aligned		
	Improper depth adjustment	Depth adjustment of Shaft is needed.  Depth adjustment range: ±2mm	
	Centerline of counter plate and door thick- ness is not aligned	See P.5 (without jig) or P.7 (with jig).	
	Improper door size	Use a suitable door. See P. 1.	

SUGATSUNE KOGYO CO.,LTD.

Phone: +81 3 3866 2260 F a x : +81 3 3866 4447

E-mail: export@sugatsune.co.jp Website: www.sugatsune-intl.com

F a x : +44 118 9272 871 E-mail: sales@sugatsune.co.uk Website: www.sugatsune.co.uk

SUGATSUNE KOGYO (UK) LTD.

Phone: +44 118 9272 955

SUGATSUNE AMERICA, INC. Phone: +1 310 329 6373

F a x: +1 310 329 0819 E-mail: sales@sugatsune.com Website: www.sugatsune.com

SUGATSUNE SHANGHALCO., LTD. Phone: +86 21 3632 1858

F a x : +86 21 3632 1868 E-mail: lamp@sugatsune.com.cn Website: www.sugatsune.com.cn

ISO9001(Japan Offices and Sugatsune America) and ISO14001(Chiba Production division and Logistics center), certified.

2021.06 1019-3

