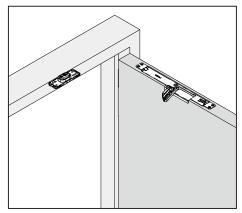
LAMP.

LDD-V100 (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.



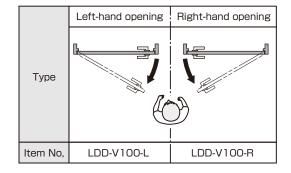
Specifications

Maximum door width	900mm		
Door thickness	40 - 60mm		
Door weight range	40 - 100kg		

Operating temperature is 0 to 40°C.

Hinge (sold separately)	HES3D-160	
	HES3D-E190	
	Butt hinge	
	Pivot hinge*	

*Center hung pivot hinge unusable.



FOR YOUR SAFE WORK AND CORRECT INSTALLATION

Meaning of symbols

Warning (!) Caution

Prohibited

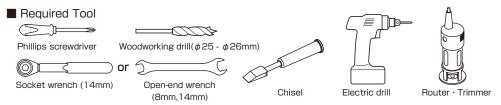


- If these cautions are not followed, it may result in injury or damage.
- · This product is for indoor use only.
- Do not use outdoors where the item is exposed to the weather.
- · Do not use in a windy place as strong wind decreases the damper function.
- · Do not close the door with excessive force. It may cause damage or defect to soft close mechanism.
- Make sure to follow the designated measurements and specifications as well as horizontal and vertical angles. Make sure that the frame is not warped since it may affect the movement of the door.
- Make sure that the door and frame have enough durability to withstand the opening and closing force after fabrication.
- · 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

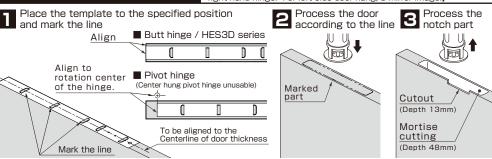
[The following list indicate the right hand hinge for right side door hang. For left side door hang, a mirror image.]

No.	1	2	3	4	(5)	6
Product name	Door damper main unit	Counter plate	Counter plate cover	Body installation screws (nominal 3.5×20)	Attachment jig	Cutout template (door side, frame side)
Parts						
Quantity	1	1	1	8	1	1

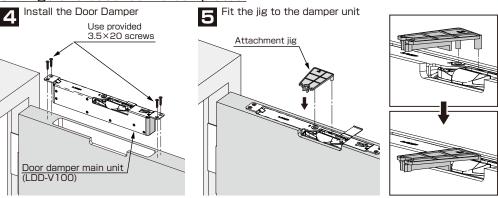


Processing and Installation

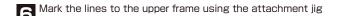
[In case not using cutout template, please see P. 7 "Reference: Door and Frame Preparation". The following procedure indicates the right hand hinge. For left side door hang, a mirror image.]

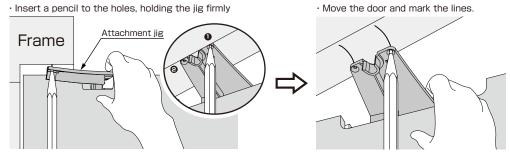


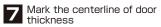
■ The following procedure should be carried out AFTER the adjustment of hinge and case lock is completed.

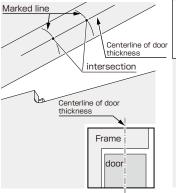




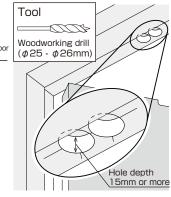




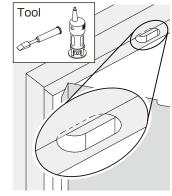




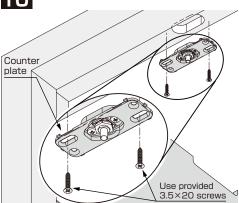
8 Drill 2 holes in the intersection



Connect the 2 holes into

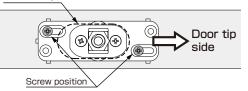


Installing the Counter Plate

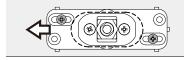


1 Pull the Counter Plate over to the door tip side.

2 Put the screws through the hinge side of the oval hole. **Cutout Shape**



3 Adjust the Counter Plate so that the screw position comes to the center of the oval hole.



Door tip side

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.

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Adjustment Procedure

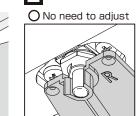
[Confirm to make horizontal/vertical/depth adjustment by following the procedure below.]

Horizontal adjustment

Horizontal adjustment range: ±5mm

Close the door until the shaft and the jig contacts

2 Position of the Shaft

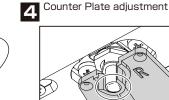






Adjustment method -

Loosen the horizontal adjustment screws



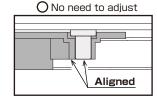
Horizontal adjustment screw

Adjust until the shaft fits the groove of the jig

Vertical adjustment

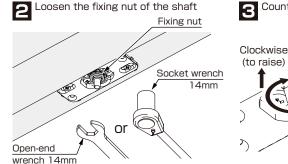
Vertical adjustment range: +0mm/-4mm (4mm Downward)

Position of the Shaft

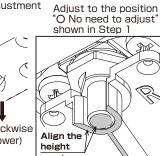




Adjustment method -

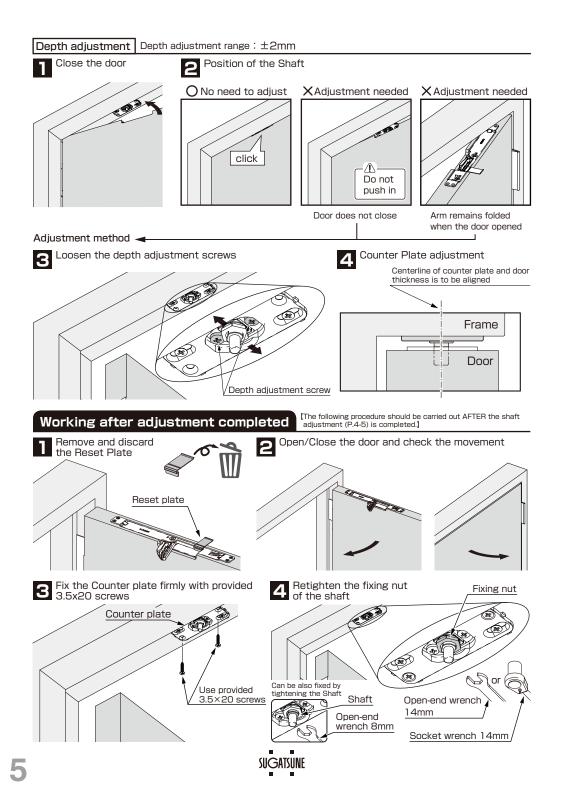


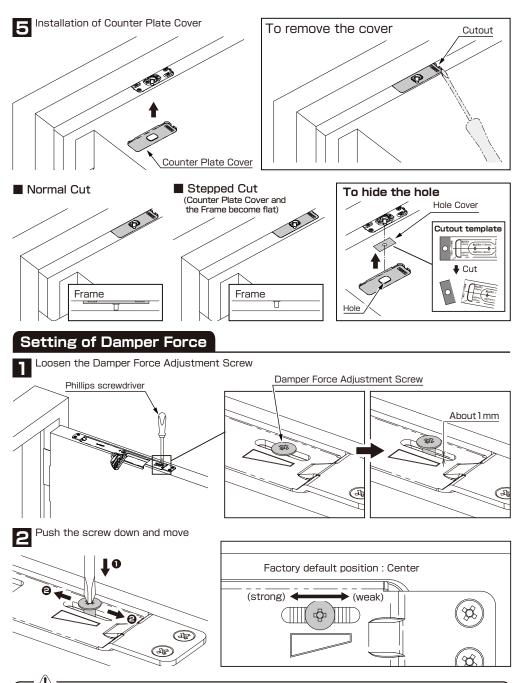
3 Counter Plate adjustment











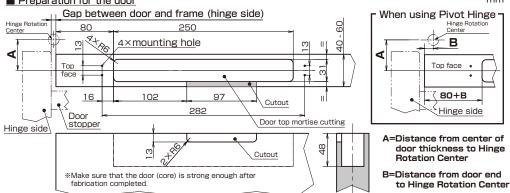
Firmly tighten the Damper Force Adjustment Screw after adjustment completed.

Reference:Door and Frame Preparation

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

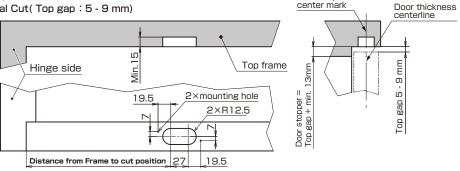
Counter plate

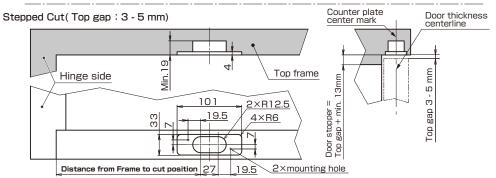
■ Preparation for the door



■ Preparation of frame

Normal Cut(Top gap: 5 - 9 mm)





(mm)

()						
Hinge		Gap between hinge side door and frame				
		1	2	3	4	5
HES3E	-160、E190	217	218	219	220	221
Butt hinge	A =20 - 35	220	221	222	223	224
	A =35 - 50	223	224	225	226	227
Pivot hinge	A=20 - 35	220+B	221+B	222+B	223+B	224+B
	A=35 - 50	223+B	224+B	225+B	226+B	227+B

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

	Hinge		Distance from Frame to cut position		
	HES3D-160、E190		216 + gap size		
	Butt hinge	A =20 - 35 219 + gap size			
		A =35 - 50	222 + gap size		
	Pivot	A =20 - 35	219+ B + gap size		
	hinge	A =35 - 50	222+ B + gap size		

(mm)

Trouble shooting

Problem Cause		Solution		
	Mounting position is not correct	Check the mounting position and make adjustments. See P. 7.		
	Mortise measures are not correct	Check the mortise dimension and make adjustments. See P. 7.		
Unusual noise	Incomplete adjustment	Re-adjust the Horizontal/Vertical /Depth/Damper Force. See P.4-6.		
	Counter plate fixation or/and Shaft fixing nut loose	Final tighten the shaft fixing nut after adjustment completed. See P.5 and tighten the nut securely.		
Shaft does not enter	Improper vertical adjustment (too low)	Vertical adjustment of Shaft is needed. Vertical adjustment range: +0mm/-4mm See P.4.		
the groove of the Arm	Improper horizontal adjustment (one-sided)	Horizontal adjustment of Shaft is needed. Horizontal adjustment range : ±5mm See P.4.		
Arm remains folded	Centerline of counter plate and door thick- ness is not aligned			
	Improper depth adjustment	Depth adjustment of Shaft is needed.		
Door will not close completely	Centerline of counter plate and door thick- ness is not aligned	Depth adjustment range : ±2mm See P.5.		
	Improper door size	Use a suitable door. See P. 1.		

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