

GLDD-V Door Damper

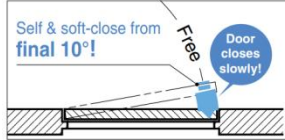
Features

- Damper body is completely hidden when the door is closed
- Damper and door pull-in functions work just before the door fully closes, preventing the door from slamming shut
- Door can be opened more easily as compared with door closer
- Damper force can be switched between two levels
- Counter plate is 3-way adjustable
- Surface mount door damper **GLDD-S** also available

Parts Included

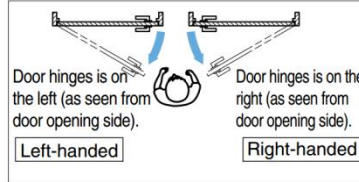
- Binding head tapping screw 4×45
- Binding head tapping screw 3.5×20

Door Movement



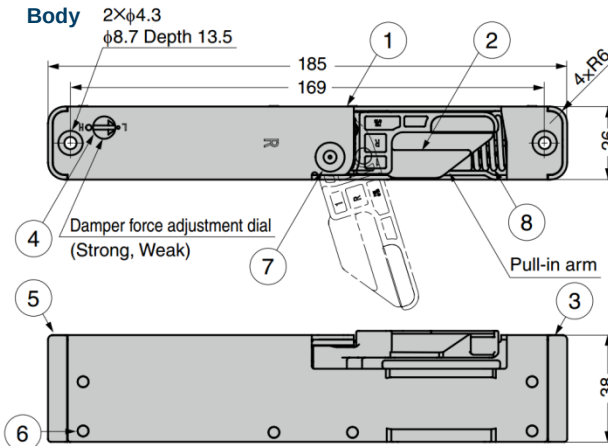
Right-handed (**GLDD-V-R**) shown
Left-handed (**GLDD-V-L**) is symmetrical

Door Hinge Side

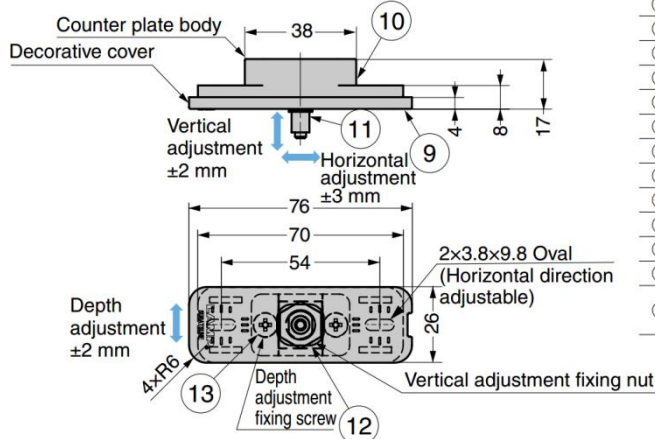


Door damper is completely hidden when door is closed
(right-handed option shown)

Body



Counter Plate



Notes

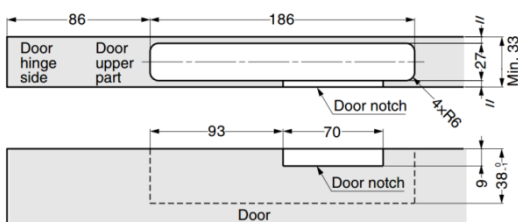
- Can be used with the following hinges:
 - 3-way adjustable concealed hinge **GHE3D** except **GHE3D-90**
 - Spring hinge **GST150-6314-05**
 - Aluminium spring lift-off hinge **GPM120**
 - Spring hinge **GSA**

No.	Part Name	Material	Finish / Colour
①	Body Case	Steel (SPCC)	Clear Zinc Chromate
②	Arm	POM	Grey
③	Spring Base		
④	Damper Force Adjustment Shaft		
⑤	Damper Base		
⑥	Countersunk Hollow Pin	Steel (SWCH)	Clear Zinc Chromate
⑦	Shoulder Shaft	Steel (SUM)	Nickel
⑧	Spring	Steel SWP	Clear Zinc Chromate
⑨	Counter Plate Cover	POM	Grey
⑩	Counter Plate Case		
⑪	Counter Plate Shaft	Steel (SUM)	Nickel
⑫	Vertical Adjustment Screw	Steel (SWRCH)	Clear Zinc Chromate
⑬	Depth Adjustment Screw	Steel (SWCH)	

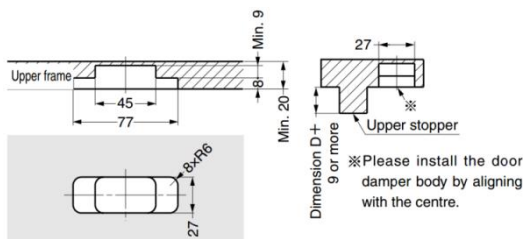
Part No.	Type	Door Width	Door Thickness	Door Weight
GLDD-V-R	Right-handed	Max. 900	Min. 33	15 ~ 40 kg
GLDD-V-L	Left-handed			

Cut Out Dimensions - Door Damper Body

Figure below is for GLDD-V-R (right-handed). GLDD-V-L (left-handed) is symmetrical



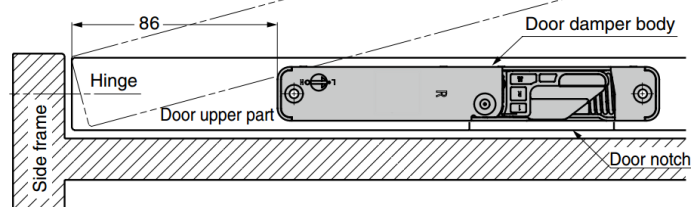
Cut Out Dimension - Counter Plate



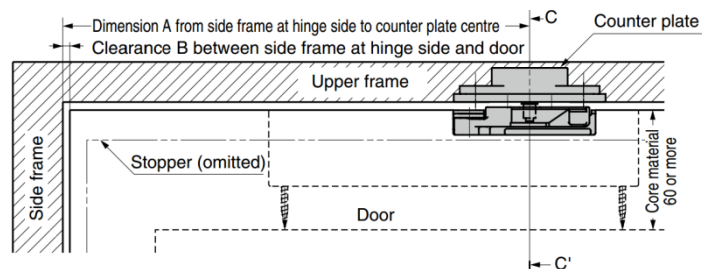
The installation position of counter plate from door hinge side varies depending on the hinges used.

Installation

GLDD-V-R (right-handed) shown. GLDD-V-L (left-handed) is symmetrical



The installation position of counter plate from door hinge side varies depending on the hinges used.



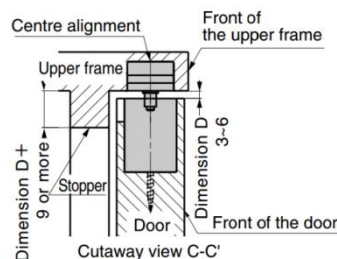
Embed the door damper body into the upper edge of the door and the counter plate into the upper frame.

[Dimension A from Side Frame at Hinge Side to Counter Plate Centre]

Door Hinge	Clearance B Between Side Frame at Hinge Side and Door				
	1	2	3	4	5
GHER3D-120	220	221	222	223	224
GHER3D-160	221	222	223	224	225
GHER3D-E190	221	222	223	224	225
GHER3D-V135LGR	218	219	220	221	222
Butt Hinges	224	225	226	227	228

※If the clearance between the side frame at hinge side and the door is beyond the range of the above table, calculate as per the table below.

Door Hinge	Dimension A from side frame at hinge side to counter plate centre
GHER3D-120	219+Clearance B Between Side Frame at Hinge Side and Door
GHER3D-160	220+Clearance B Between Side Frame at Hinge Side and Door
GHER3D-E190	221+Clearance B Between Side Frame at Hinge Side and Door
GHER3D-V135LGR	217+Clearance B Between Side Frame at Hinge Side and Door
Butt Hinges	223+Clearance B Between Side Frame at Hinge Side and Door



Safety Cautions

- Do not drop or give strong impact to this product.
- This product can not resist strong wind. Do not use under strong wind, or the damper effect will decrease.
- If you close the door with excessive force, the damper effect may decrease.
- The door may not close enough depending on the case lock used.
- This product is designed for interior use. Do not use it outdoors.
- Do not use it at places subject to moisture and water.
- At the entrance of highly airtight room, the door closing speed and damper force may change, and the door may not close enough.
- Closing speed varies on environment (temperature, wind and hinges used on the door, etc.). Operating temperature: 0°C ~ 40°C.
- Do not apply a load in the vertical direction or excessive force to pull-in arm. Otherwise, it may be damaged.
- Please install and adjust this product after adjusting the door hinges.
- Please use the door hinges within the adaptive door weight range of this product.
- Please install this product horizontally. Otherwise, it may not operate properly.
- After vertical adjustment of counter plate, tighten the fixing nut firmly.
- This product is supplied with installation instruction. Be sure to read before installation or use.
- Regularly check for looseness or dropout of screws during use

GLLD-V-JIG Adjustment Jig for Counter Plate of GLDD-V

Features

- For door damper **GLDD-V** only
- Used for adjusting the counter plate position of **GLDD-V**

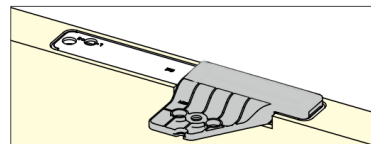
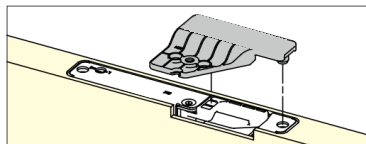
Part No.	Type	Material	Colour
GLDD-V-R-JIG	Right-handed	ABS	Orange
GLDD-V-L-JIG	Left-handed		



How to Use

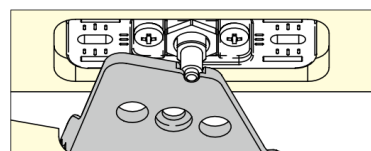
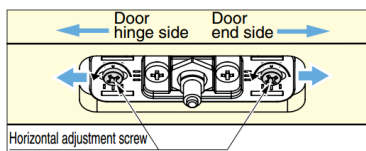
● 1. Install the adjustment jig

- ① Fit the adjustment jig firmly into the body.
※ Right-handed and left-handed available.
※ Be sure to adjust the counter plate position after adjusting the installation position of the hinges.



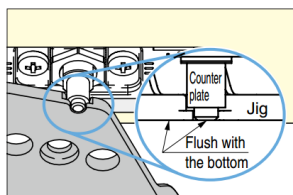
● 2. Horizontally adjust the counter plate

- ① Loosen the horizontal adjustment screws.
- ② While holding the adjustment jig by hand, slowly close the door and align the counter plate shaft with the groove.
- ③ Tighten the horizontal adjustment screws.



● 3. Vertically adjust the counter plate

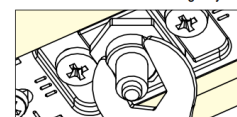
- ① Loosen the fixing nut.
- ② While holding the adjustment jig by hand, slowly close the door and align the top of counter plate shaft with the bottom of jig.
- ③ Tighten the fixing nut or the counter plate shaft firmly.



Finally tighten the fixing nut or counter plate shaft in either of the following ways



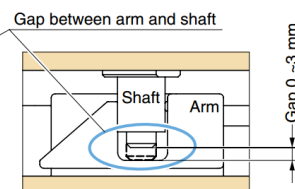
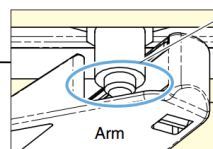
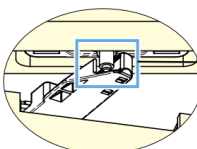
Finally tighten the fixing nut with a socket wrench (14mm) or a spanner (14mm).



Tighten the counter plate shaft with a spanner (8mm).

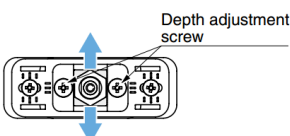
● 4. Check

- ① When removing the jig and closing the door slowly to the end, "click" sounds once.
※ If the door does not close to the end or "click" sounds twice, perform depth adjustment.
- ② When opening the door, "click" sounds once, and the arm is pulled out.
※ If the arm can not be pulled out, perform depth adjustment.
- ③ Check if the clearance between the arm and the counter plate shaft is appropriate.

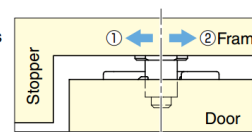


※ Depth adjustment of the counter plate (adjustment jig **GLDD-V-JIG** can not be used for depth adjustment).

- ① Loosen the depth adjustment screws.
- ② Align the centre of the counter plate shaft with that of the door thickness.
- ③ Tighten the depth adjustment screws.



- ① When the door does not close to the end or "click" sounds twice (door stopper side)



- ② When the arm can not be pulled out

GLLD-V-TMP Template for GLDD-V

Features

- Easy to make mortise on wood door and frame for **GLDD-V**
- Possible to use repeatedly
- Two templates included: for door & frame

Part No.	Material	Colour
GLDD-V-TMP	Methacrylic Resin (PMMA)	Clear

