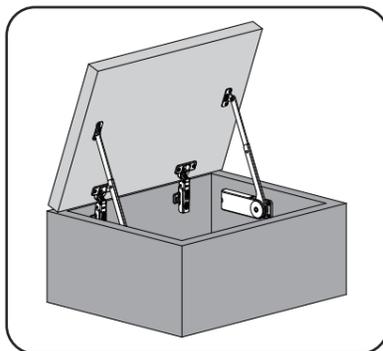


Dear Customer:

HDS-20S stay was designed and manufactured with Sugatsune's utmost care in order to give you a high performance and smooth operation on a long-term basis. We ask you to follow these instructions for best possible results and carefree use throughout lifetime.

Safety recommendations:

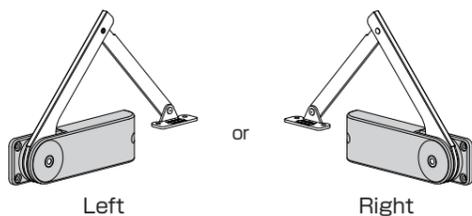
- Sugatsune recommends for the installation to be made by a professional carpenter or installer.
- This product should be used in pairs.
- Do not disassemble the arm or body of the stay.
- Please use this stay only within the specifications shown in this manual.
- Standard temperature of use is 0 to 40°C.



Warning Warranty

- HDS-20S was produced with a particular attention to its quality. Should you however experience any difficulty, please refer to your local supplier or Sugatsune Export Department (export@sugatsune.co.jp).
- The liability of Sugatsune is limited to the replacement of the stay itself.
- Sugatsune cannot accept any liability for damage incurred while using this stay.
- Standard guaranty is for one-year period from the date of shipment.

Parts list



■ Body : 1 piece



■ Installation screws(3.5×15)
: 6 pieces

Specifications

■ Range applicable for a pair of HDS-20S

Model	Torque Moment
HDS-20S-H	6.9~10.8 N·m (70~110 kgf·cm)
HDS-20S-S	10.9~14.7 N·m (111~150 kgf·cm)

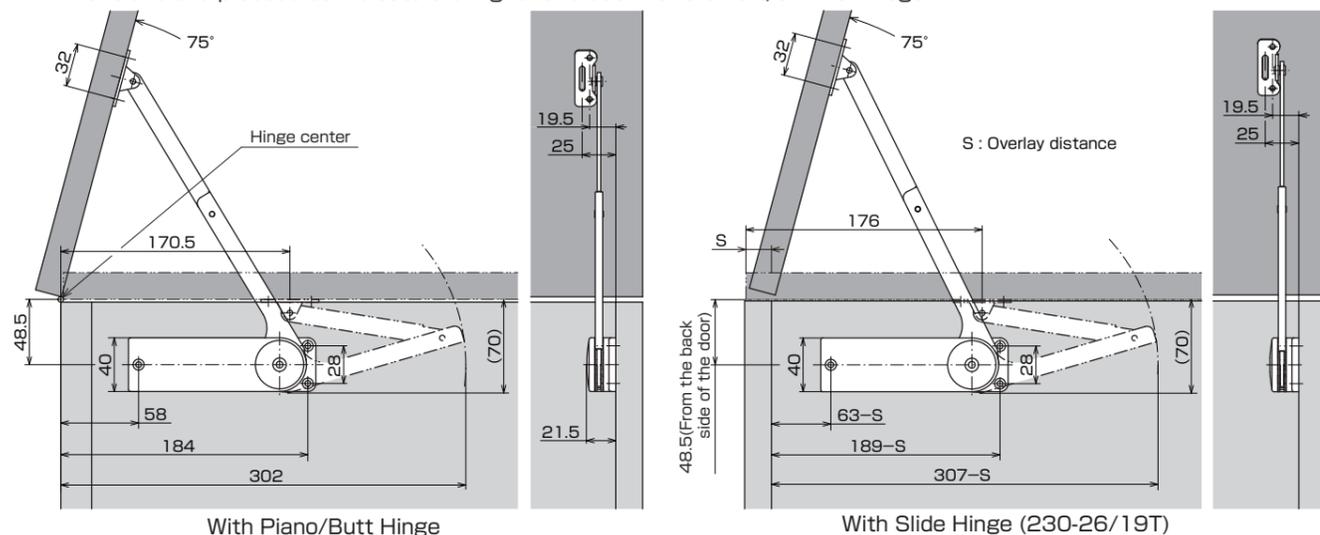
■ Torque Moment Calculation

$$\text{Torque Moment(N·m)} = \text{Door weight(kg)} \times 9.8 \times \frac{\text{Door height(m)}}{2}$$

- *Select the torque moment range applicable in the list above.
- *Weight of the door should include the handle.
- *Check with the actual product if the torque moment is around upper/lower limit.

Installation drawing

※Dimensions and procedures indicate the Right hand use. For the Left, a mirror image.

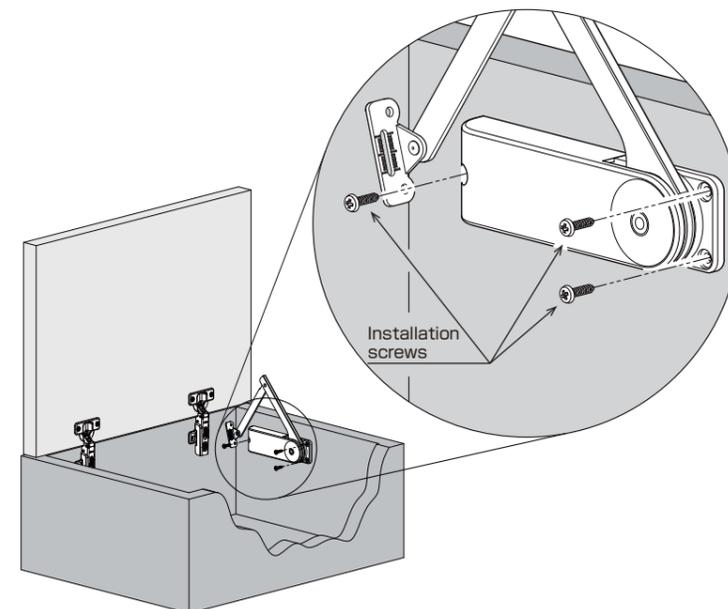


Installation

⚠ Check if the hinges are installed properly and the door moves smoothly before installing the stay.

1 Body installation

Firmly fix the body with the installation screws according to the installation drawing.

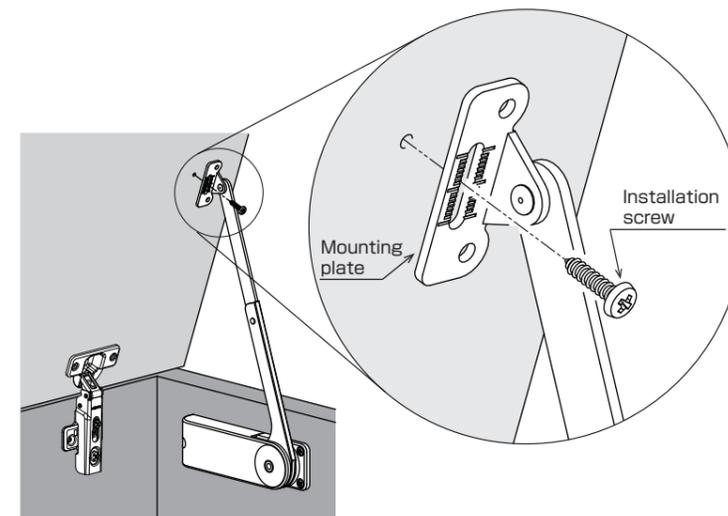


2 Mounting plate adjustment

Temporary fix the mounting plate with the installation screw using the elongate hole. Open/close the door and adjust the position of the mounting plate until the door moves smoothly.

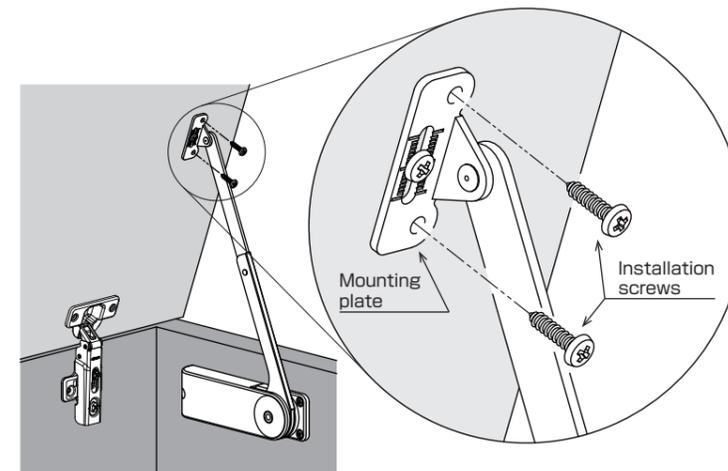
WARNING

⚠ Please be careful when installing the mounting plate to the door as it will spring back up violently and may cause serious injuries.



3 Mounting plate installation

Fix the mounting plate firmly using the installation screws.



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