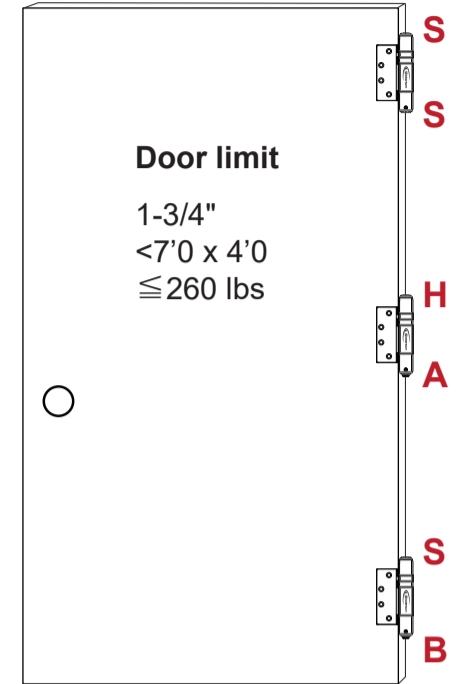
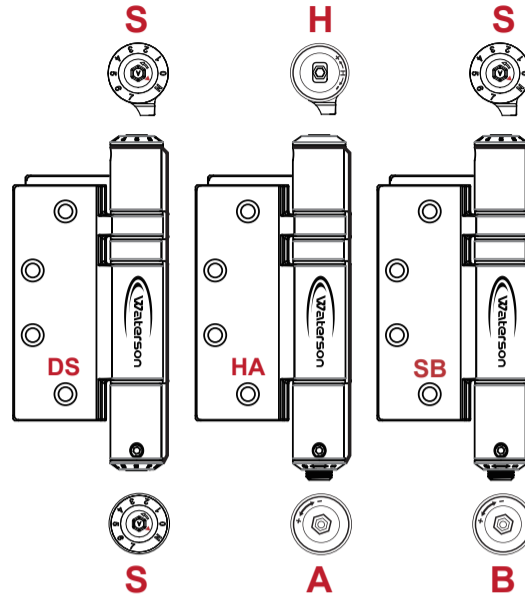
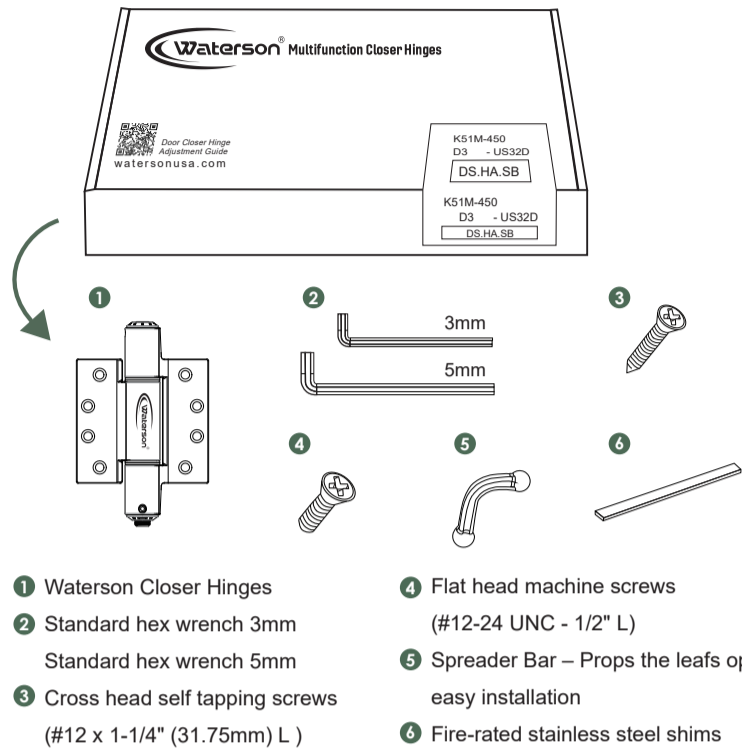




D.1 Parts Included

Each box includes a complete set of hinges, installation parts and necessary tools.
NOTE: Set D3 includes three hinges.

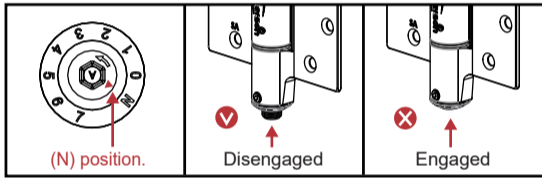


D.2 Adjustment Steps

Follow the steps below to precisely adjust the speed control, self-closing and hold-open functions.

1 BEFORE ADJUSTING

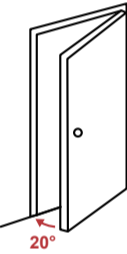
Install door so it swings freely and latches. Hinges should be in the following factory settings upon installation:



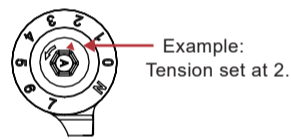
NOTE: Hinge positions are interchangeable.

2 SETTING TENSION

Increase tension one number at a time until door closes and latches from 20°. (Refer to D.3-S)

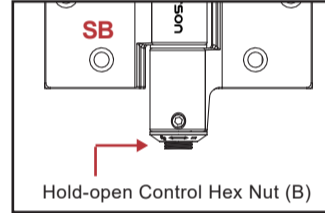


NOTE: Optimal function is achieved when hinges are set similarly. Tension settings are cumulative.



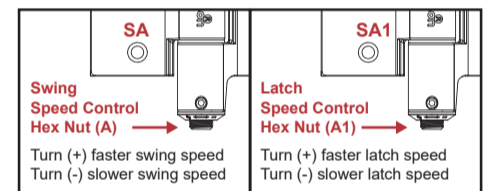
3 ENABLING HOLD OPEN CONTROL

Adjust hold-open control (B) to hold the door at 90°. (Refer to D.3-B)



4 ADJUSTING SWING & LATCH SPEED CONTROL

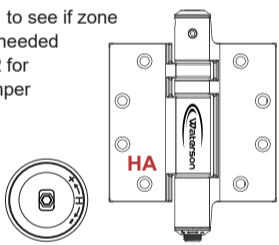
First adjust swing speed control (A) then latch speed control (A1) (Refer to D.3-A and D.3-A1)



5 ENABLE HYDRAULIC DAMPER

Follow the two steps below to enable hydraulic function:

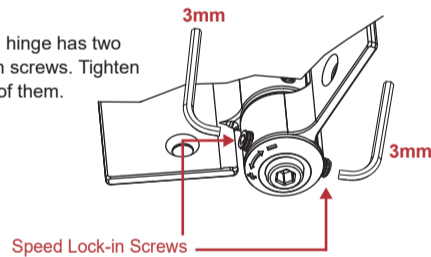
1. Refer D.3 - H1 to see if zone adjustment is needed
2. Refer D.3 - H2 for Hydraulic Damper Adjustment.



6 LOCK-IN PLACE

Tighten speed lock-in screws on SA, SA1 and SB hinges to ensure that your settings remain fixed.

NOTE: Each hinge has two speed lock-in screws. Tighten at least one of them.

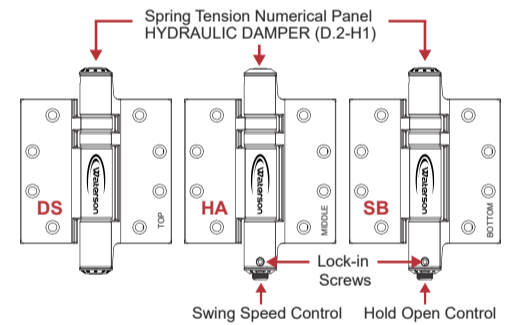


FINE ADJUSTMENT

Optimize door performance by adjusting: Swing speed (A), Latch speed (A1), and Spring tension (S).

- ADJUSTMENTS:
- **Door Slams:** Decrease swing speed, latch speed, or tension.
 - **Poor Latching:** Increase swing speed, latch speed, or tension.

NOTE: Adjust speed control gradually, making slight changes each time.
NOTE: Increase or decrease spring tension incrementally one number at a time.



D.3 How To Adjust

Waterson hinge sets are easily adjustable using 3mm and 5mm hex wrenches. See specific adjustment details (S, A, A1, B, H1 & H2) below.

S TENSION ADJUSTMENT

Use 5mm hex wrench to adjust numerical panel.
Increase Tension: Turn (▲) greater number starting from N,0,1, ...
Decrease Tension: Depress down hex socket and turn to lower number.

NOTE: Setting tension beyond 5 may decrease spring longevity.

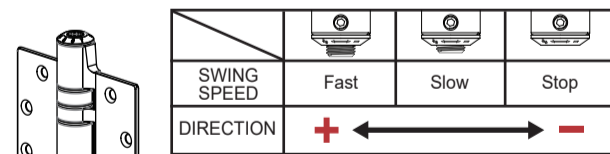
Increase Tension example: Turn (▲) from N to 2
Decrease Tension example:
1 Press down
2 Turn to lower numbers



CAUTION: Do not forcefully turn in the space from N to 7 or 7 to N. That will break the hinge and void the warranty.

A SWING SPEED ADJUSTMENT

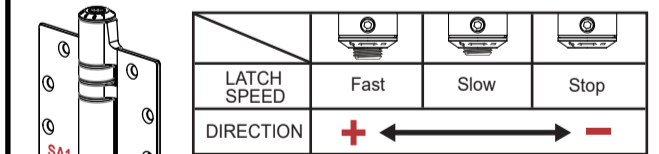
Use 5mm hex wrench to adjust swing speed, which is only adjusted on SA and HA hinge bottoms.



Lock speed lock-in screws with 3mm wrench after adjusting.
Swing Speed Control Nut adjusting with 5mm wrench.

A1 LATCH SPEED ADJUSTMENT

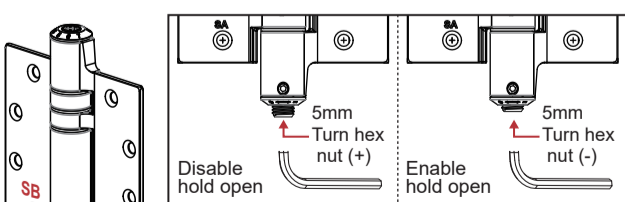
Use 5mm hex wrench to adjust latch speed, which is only adjusted on SA1 hinge bottom.



Lock speed lock-in screws with 3mm wrench after adjusting.
Latch speed Control Hex Nut adjusting with 5mm wrench.

B HOLD OPEN ADJUSTMENT

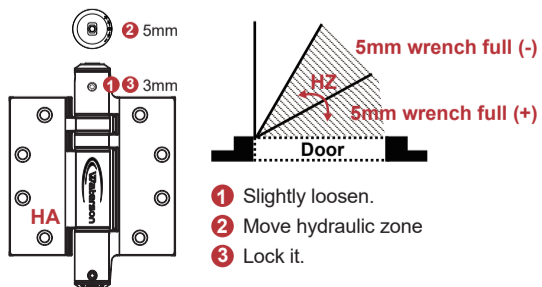
Hold-open adjustment is only done on SB hinge bottom.



Lock lock-in screws with 3mm wrench after adjusting.
Hold Open Control Nut adjusting with 5mm wrench.

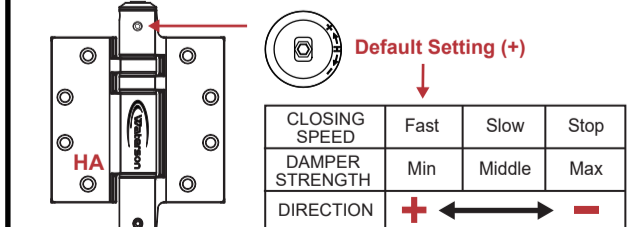
H1 MOVE HYDRAULIC ZONE (if needed)

Hydraulic zone (HZ) is adjustable.
Light or latchless doors: turn fully (+), factory setting.
Heavy latch doors: turn fully (-).



H2 HYDRAULIC DAMPER ADJUSTMENT

Use a 3mm hex wrench to adjust hydraulic damper, which is only done on HA or HS hinges.



NOTE: Turn one full round (-) first, then adjust in 1/4 turns (+ or -) until satisfied.
CAUTION: Hydraulic mechanism operates best from 0-120°. Opening beyond 120° may damage hinge and violate warranty.