Waterson®
Multifunction Closer Hinges

Adjustment Instructions

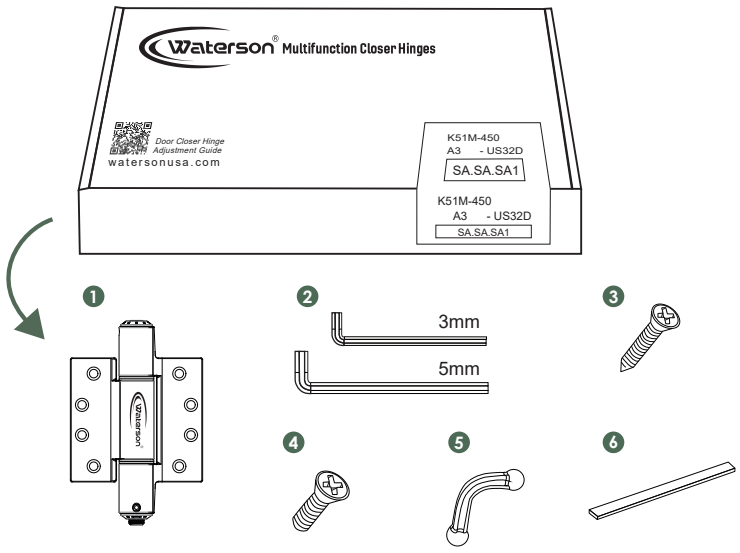
Set A2 - 2 hinges
Set A3 - 3 hinges

Watch Adjustment Video Here!

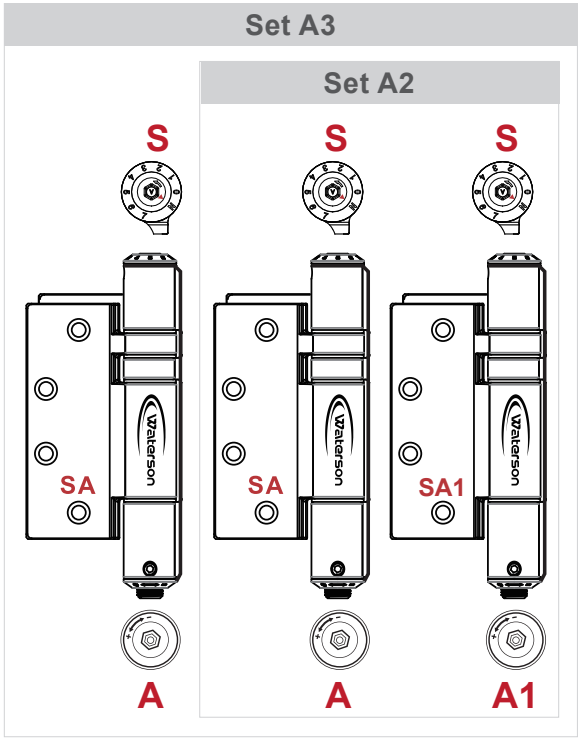
Mechanical Speed Control With Self-closing Without Hold-open

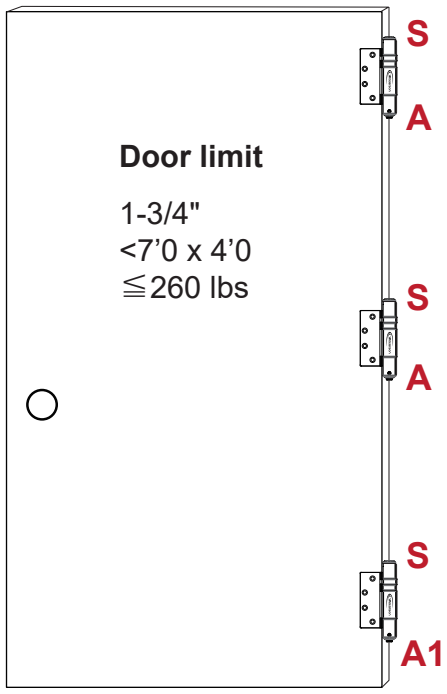
A.1 Parts Included

Each box includes a complete set of hinges,installation parts and necessary tools.
NOTE: Set A3 includes three hinges; Set A2 includes two hinges.



1. Waterson Closer Hinges
2. Standard hex wrench 3mm
   Standard hex wrench 5mm
3. Cross head self tapping screws (#12 x 1-1/4" (31.75mm) L)
4. Flat head machine screws (#12-24 UNC - 1/2" L)
5. Spreader Bar – Props the leafs open for easy installation
6. Fire-rated stainless steel shims



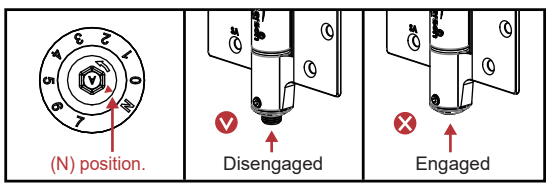


A.2 Adjustment Steps

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

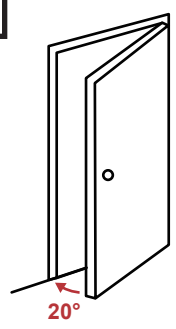
1 BEFORE ADJUSTING

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



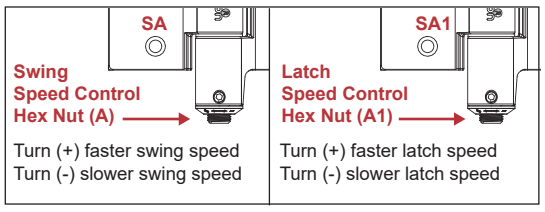
Increase tension one number at a time until door closes and latches from 20°. (Refer to A.3-S)

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

Example:
Tension set at 2.

3 ADJUSTING SWING & LATCH SPEED CONTROL

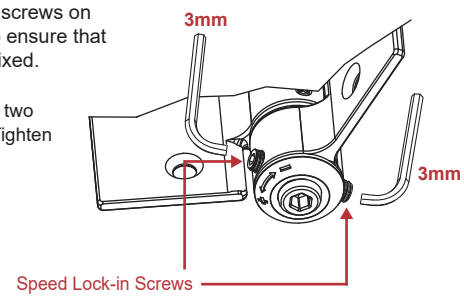
First adjust swing speed control (A) then latch speed control (A1) (Refer to A.3-A and A.3-A1)



4 LOCK-IN PLACE

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

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

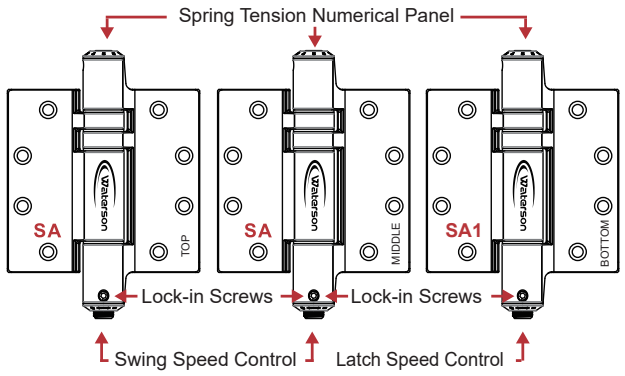


FINE ADJUSTMENT

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.



A.3 How To Adjust

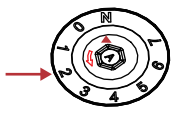
Waterson hinge sets are easily adjustable using 3mm and 5mm hex wrenches. See specific adjustment details (S, A, A1, B, H1 & H2) below.

S TENSION ADJUSTMENT

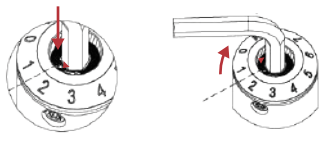
Use 5mm hex wrench to adjust numerical panel.
Increase Tension: Turn (▲) greater number starting from N,0,1, …
Decrease Tension: Depress down hex socket and turn to lower number.

NOTE: Setting tensin beyond 5 may decrease spring longevity.

Increase Tension example:
Turn (▲) from N to 2



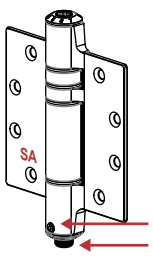
Decrease Tension example:
1. Press down
2. Turn to lower numbers



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.

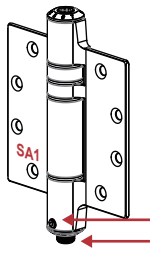


SWING SPEED	Fast	Slow	Stop
DIRECTION	+ ⟷ −		

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.

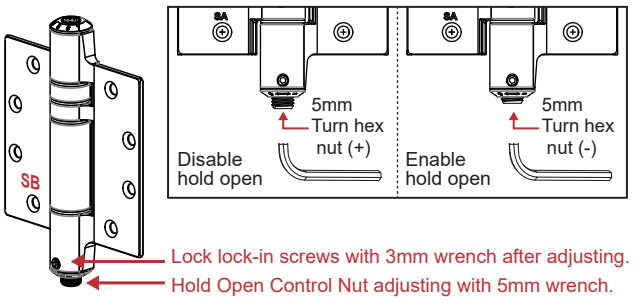


LATCH SPEED	Fast	Slow	Stop
DIRECTION	+ ⟷ −		

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

B HOLD OPEN ADJUSTMENT

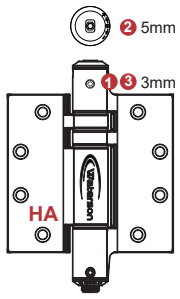
Hold-open adjustment is only done on SB hinge bottom.

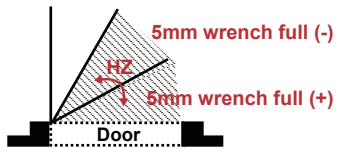


Lock lock-in screws with 3mm wrench after adjusting.
Hold Open Control Nut adjusting with 5mm wrench.

H1 MOVE HYDRAULIC ZONE (if needed)

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

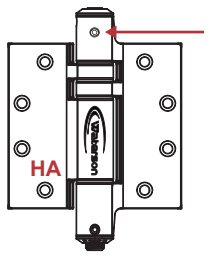




1. Slightly loosen.
2. Move hydraulic zone
3. Lock it.

H2 HYDRAULIC DAMPER ADJUSTMENT

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



Default Setting (+)

CLOSING SPEED	Fast	Slow	Stop
DAMPER STRENGTH	Min	Middle	Max
DIRECTION	+ ⟷ −		

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.

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