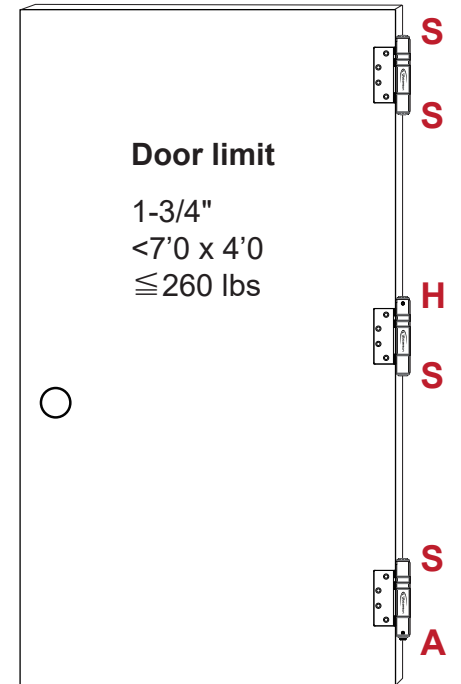
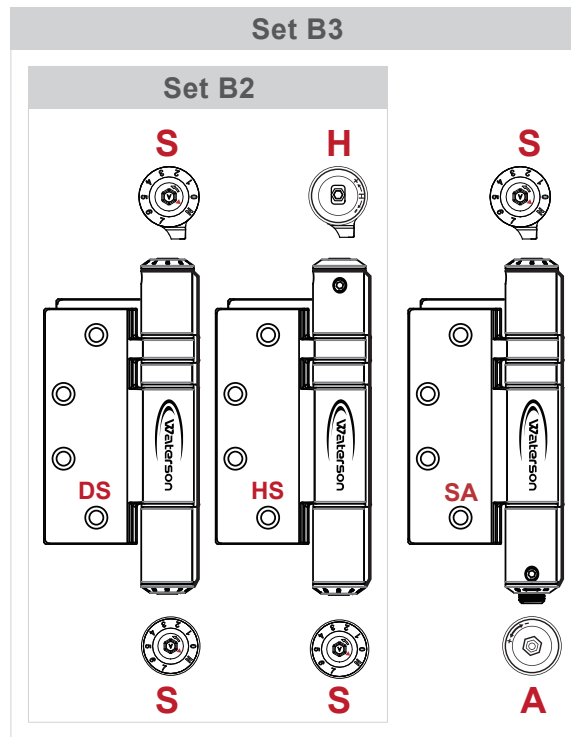
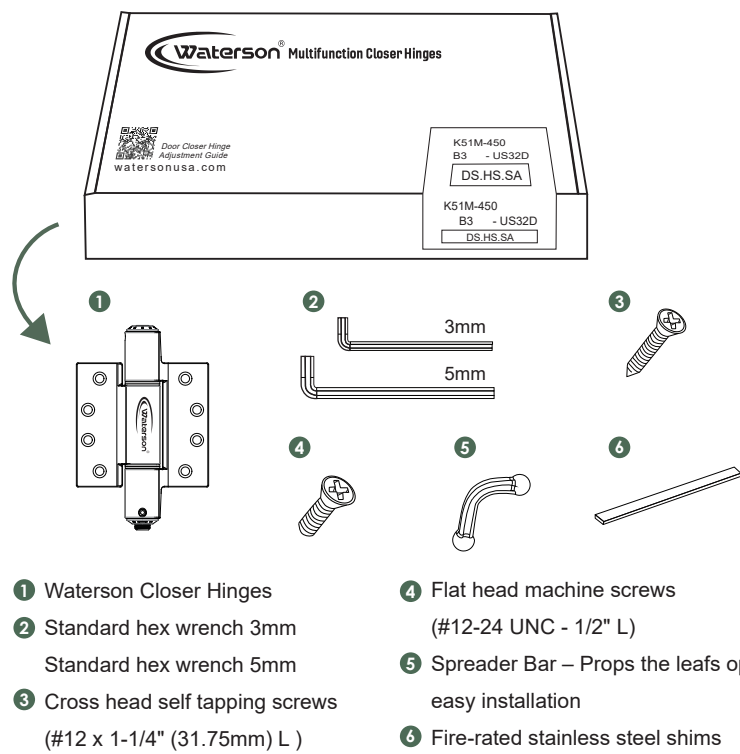




B.1 Parts Included

Each box includes a complete set of hinges, installation parts and necessary tools.
NOTE: Set B3 includes three hinges; Set B2 includes two hinges.



B.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 B.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) to avoid slamming. (Refer to B.3-A and B.3-A1)

Swing Speed Control Hex Nut (A) → Turn (+) faster swing speed
Turn (-) slower swing speed

Latch Speed Control Hex Nut (A1) → Turn (+) faster latch speed
Turn (-) slower latch speed

4 ENABLE HYDRAULIC & ADJUST DAMPER
Follow the two steps below to enable hydraulic function:

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

5 LOCK-IN PLACE
Tighten the barrel-side speed lock-in screws on SA, SA1 and HA 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.

B.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 hex socket and turn to lower number. (E.g. 7,6,5, ...)

NOTE: Setting tension beyond 5 may decrease spring longevity.

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.

Disable hold open: Turn hex nut (+)
Enable hold open: Turn hex nut (-)

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 (-).

- Slightly loosen.
- Move hydraulic zone
- 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.