



### How To Use This Sheet

The following Installation Instructions are divided into three parts: I) How To Adjust key functions; II) Set C3 for setting mechanical only self-closing with hold-open; III) Set D3 for setting hydraulic hybrid soft closing with hold-open.

## How To Adjust

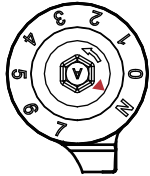
Waterson hinge sets are easily adjustable using 3mm and 5mm hex wrenches. See H1 – H6 for specific adjustments.

### H1

#### ADJUSTMENT - TENSION

Use 5mm hex wrench to increase and decrease tension on numerical panel.

**Increase Tension:** Turn (Δ) to greater number.  
**Decrease Tension:** Depress and turn to lower number.



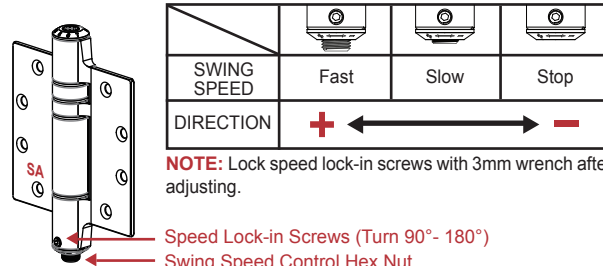
**NOTE:** Spring tension adjustment is done on SA, SB & SA1 top ends, as well as on HS bottom & DS both sides.

**CAUTION:** Setting tension beyond 5 may decrease spring longevity.

### H2

#### ADJUSTMENT - SWING SPEED

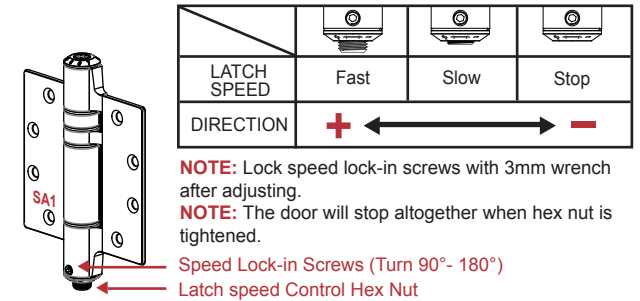
Use 5mm hex wrench to adjust swing speed. Swing speed is only adjusted on SA and HA hinge bottoms.



### H3

#### ADJUSTMENT - LATCH SPEED

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

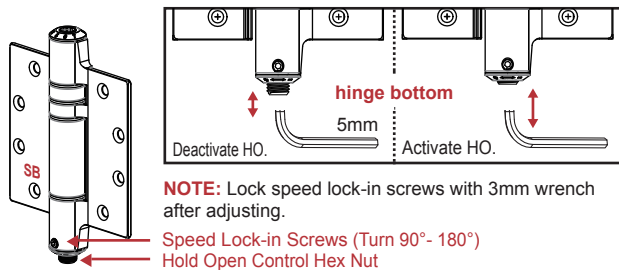


### H4

#### ADJUSTMENT - HOLD OPEN

Use 5mm hex wrench to enable and disable hold open feature. Hold-open adjustment is only done on SB hinge bottom.

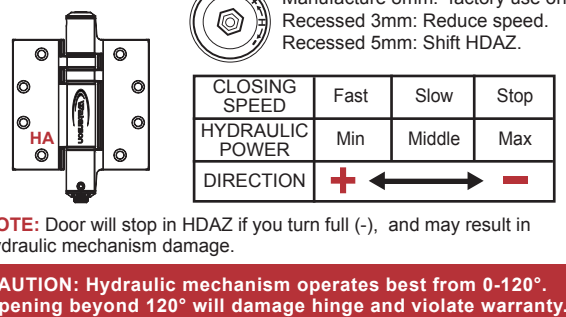
Turn hex nut (-) to enable hold open.  
Turn hex nut (+) to disable hold open.



### H5

#### ADJUSTMENT - HYDRAULIC POWER

Use 3mm hex wrench to adjust the 30° hydraulic damper action zone (HDAZ) power. Hydraulic power adjustment is only done on HA or HS hinge.

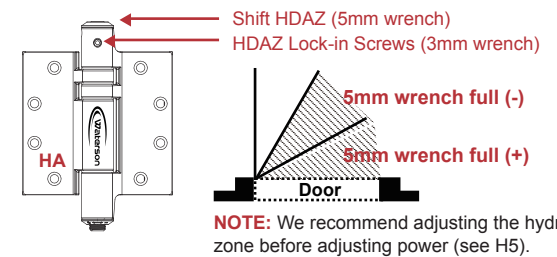


### H6

#### ADJUSTMENT - HYDRAULIC ZONE

Use 3mm wrench to loosen HDAZ lock-in screws before adjusting then tighten after. Use 5mm hex wrench to move HDAZ.

Latched doors: Turn full(-). This is factory setting.  
Latchless doors: Turn full(+) to shift HDAZ



## Process Set D3

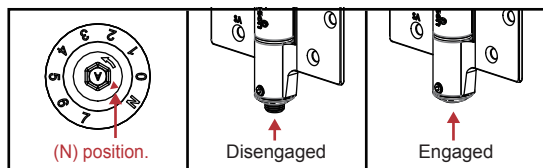
Waterson D3 (DS.HA.SB) set is comprised of DS, HA and SB hinges. This set is designed to provide soft closing with hold-open in interior breezy environments as well as latchless doors.

### D1

#### BEFORE ADJUSTING

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

- Numerical panel at neutral (N) position
- Speed control hex nut disengaged



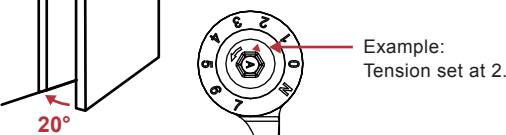
**NOTE:** Hinge positions are interchangeable.

### D2

#### CLOSING FORCE SETTING

Increase tension one number at a time until door closes and latches from 20°.

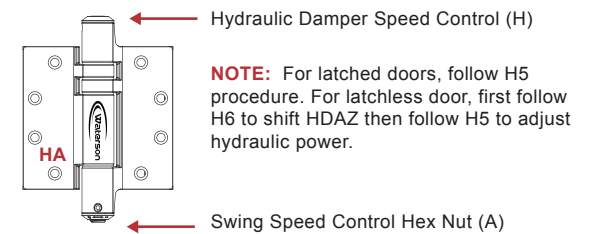
**NOTE:** Optimal function is achieved when hinges are set similarly. Tension settings are cumulative.



### D3

#### ENABLING SWING SPEED CONTROL

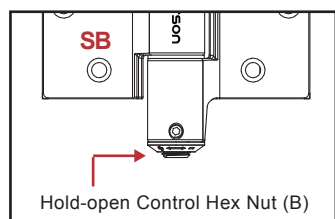
First adjust swing speed control (A) then hydraulic damper speed control (H) to avoid slamming. (Refer to H2, H5 and H6)



### D4

#### ENABLING HOLD OPEN CONTROL

Adjust hold-open control (B) to hold the door at 90°. (Refer to H4)



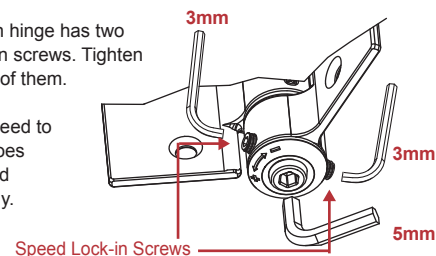
### D5

#### LOCK-IN PLACE

Tighten the barrel-side 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.

**NOTE:** Proceed to D6 if door does not close and latch properly.



### D6

#### FINE ADJUSTMENT

For optimal performance, adjust swing speed, latch speed, and closing tension reciprocally until slamming stops and door latches properly.

##### ADJUSTMENTS:

- **Door Slams:** Reduce (-) swing speed or latch speed or decrease tension.
- **Poor Latching:** Increase (+) swing speed or latch speed or increase tension.

**NOTE:** Adjust speed control by 5°-10° at a time.  
**NOTE:** Increase or decrease spring tension incrementally one number at a time.

