



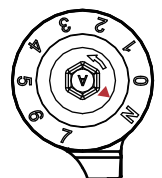
How To Adjust

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 (▲) to greater number.
Decrease Tension: Depress and turn to lower number.

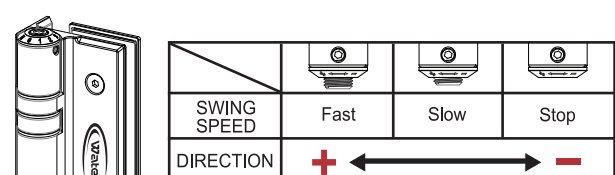


NOTE: Spring tension adjustment is done on SA, SB & SA1 top ends, as well as on HS bottom & DS both sides.

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.

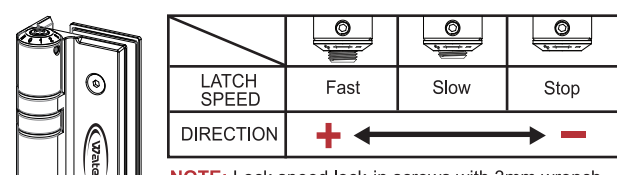


NOTE: Lock speed lock-in screws with 3mm wrench after adjusting.

Speed Lock-in Screws (Turn 90°-180°)
Swing Speed Control Hex Nut

H3 ADJUSTMENT - LATCH SPEED

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



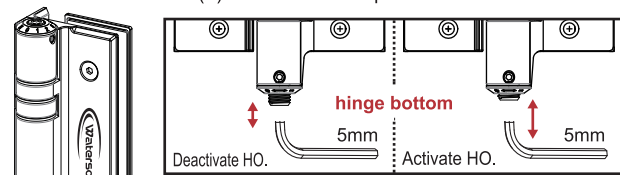
NOTE: Lock speed lock-in screws with 3mm wrench after adjusting.

Speed Lock-in Screws (Turn 90°-180°)
Latch speed Control Hex Nut

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.



NOTE: Lock speed lock-in screws with 3mm wrench after adjusting.

Speed Lock-in Screws (Turn 90°-180°)
Hold Open Control Hex Nut

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.

Manufacture 8mm: factory use only
Recessed 3mm: Reduce speed.
Recessed 5mm: Shift HDAZ.



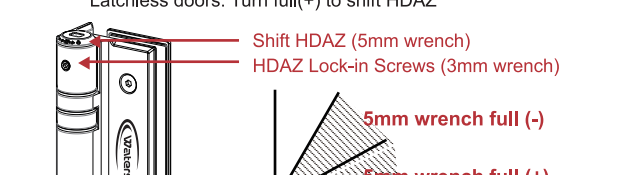
NOTE: Door will stop in HDAZ if you turn full (-), and may result in hydraulic mechanism damage.

CAUTION: Hydraulic mechanism operates best from 0-120°. Opening beyond 120° will damage hinge and violate warranty.

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



NOTE: We recommend adjusting the hydraulic zone before adjusting power (see H5).

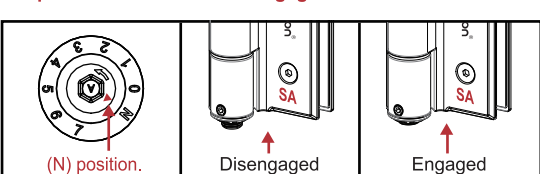
Latched Doors Process Set B2 & B3

Waterson B2 (HS.SA) is composed of HS and SA hinge. Waterson B3 (SA.HS.SA1) is composed of SA, HS and SA1 hinge. This set is designed to provide soft closing in interior breezy environments, as well as on latchless doors.

B1 BEFORE ADJUSTING

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

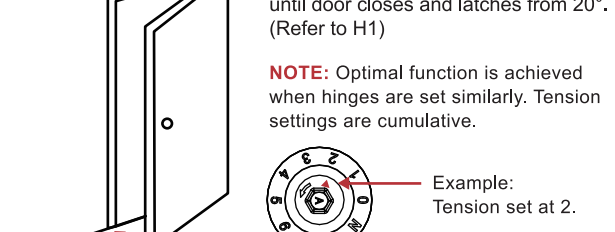
- Numerical panel at neutral (N) position
- Speed control hex nut disengaged



NOTE: Hinge positions are interchangeable.

B2 CLOSING FORCE SETTING

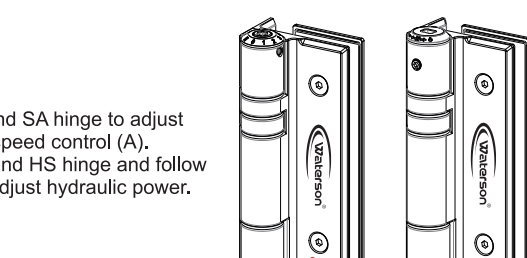
Increase tension one number at a time until door closes and latches from 20°.



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

Example: Tension set at 2.

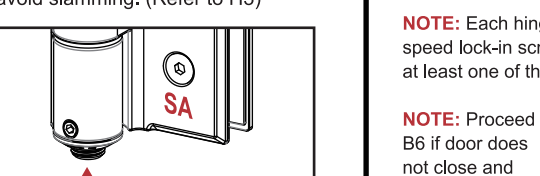
B3 ENABLING SWING & LATCH SPEED CONTROL



First, find SA hinge to adjust swing speed control (A). Then, find HS hinge and follow H5 to adjust hydraulic power.

B4 ENABLING LATCH SPEED CONTROL

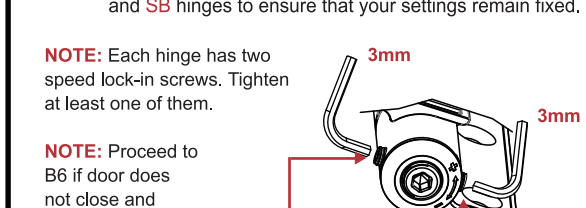
Adjust latch speed control (A1) to avoid slamming. (Refer to H3)



Latch Speed Control Hex Nut (A1)

B5 LOCK-IN PLACE

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

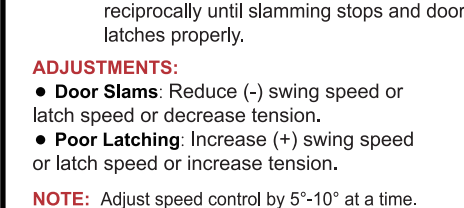


NOTE: Each hinge has two speed lock-in screws. Tighten at least one of them.

NOTE: Proceed to B6 if door does not close and latch properly.

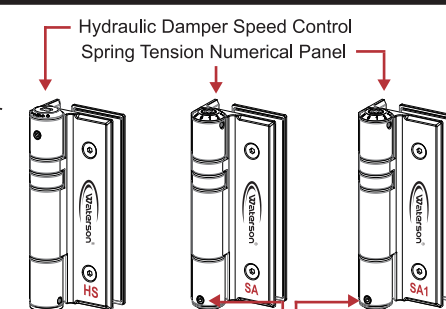
B6 FINE ADJUSTMENT

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.



Spring Tension Numerical Panel (S)
Swing Speed Control Hex Nut (A)
Latch Speed Control Hex Nut (A1)

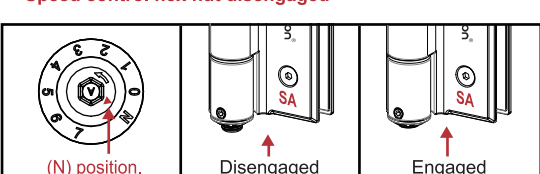
Latchless Door Process Set B2 & B3

Waterson B2 (HS.SA) is composed of HS and SA hinge. Waterson B3 (SA.HS.SA1) is composed of SA, HS and SA1 hinge. This set is designed to provide soft closing in interior breezy environments, as well as on latchless doors.

b1 BEFORE ADJUSTING

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

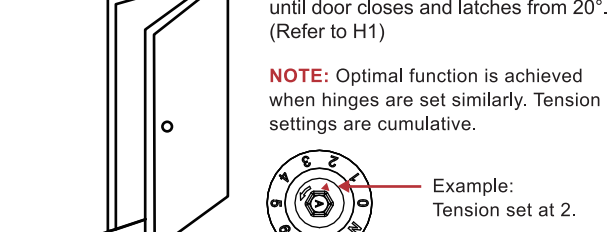
- Numerical panel at neutral (N) position
- Speed control hex nut disengaged



NOTE: Hinge positions are interchangeable.

b2 CLOSING FORCE SETTING

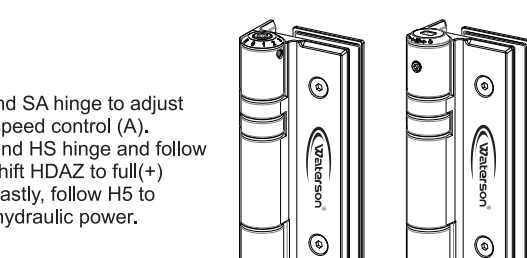
Increase tension one number at a time until door closes and latches from 20°.



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

Example: Tension set at 2.

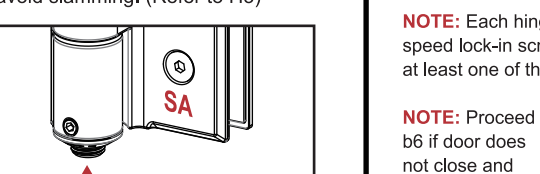
b3 ENABLING SWING & LATCH SPEED CONTROL



First, find SA hinge to adjust swing speed control (A). Then, find HS hinge and follow H6 to shift HDAZ to full(+) zone. Lastly, follow H5 to adjust hydraulic power.

b4 ENABLING LATCH SPEED CONTROL

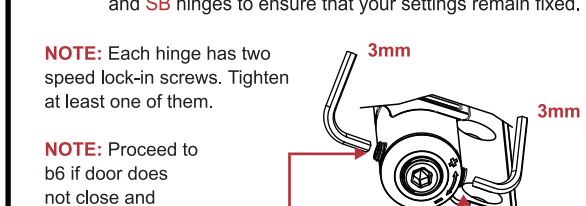
Adjust latch speed control (A1) to avoid slamming. (Refer to H3)



Latch Speed Control Hex Nut (A1)

b5 LOCK-IN PLACE

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

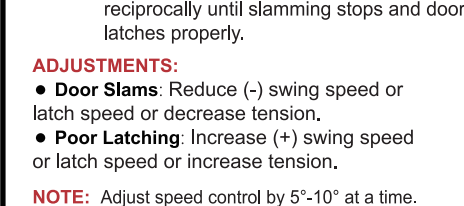


NOTE: Each hinge has two speed lock-in screws. Tighten at least one of them.

NOTE: Proceed to b6 if door does not close and latch properly.

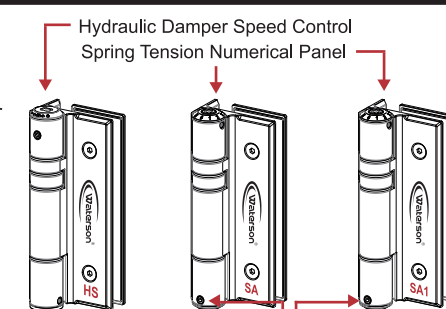
b6 FINE ADJUSTMENT

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.



Spring Tension Numerical Panel (S)
Swing Speed Control Hex Nut (A)
Latch Speed Control Hex Nut (A1)



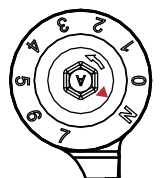
How To Adjust

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 (▲) to greater number.
Decrease Tension: Depress and turn to lower number.

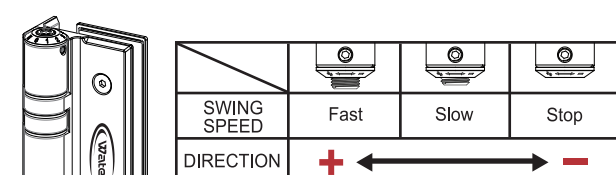


NOTE: Spring tension adjustment is done on SA, SB & SA1 top ends, as well as on HS bottom & DS both sides.

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.

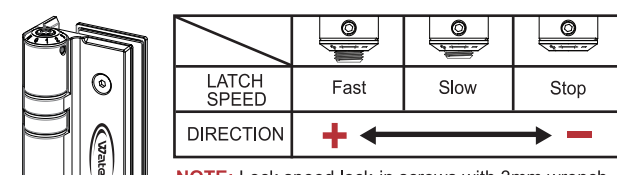


NOTE: Lock speed lock-in screws with 3mm wrench after adjusting.

Speed Lock-in Screws (Turn 90°-180°)
Swing Speed Control Hex Nut

H3 ADJUSTMENT - LATCH SPEED

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



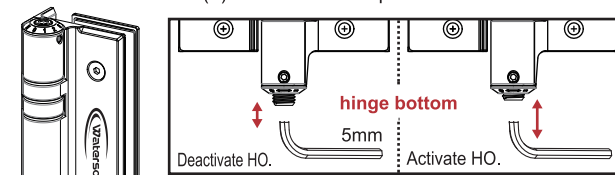
NOTE: Lock speed lock-in screws with 3mm wrench after adjusting.

Speed Lock-in Screws (Turn 90°-180°)
Latch speed Control Hex Nut

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.



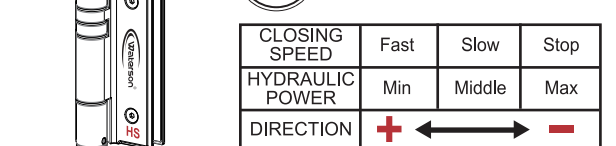
NOTE: Lock speed lock-in screws with 3mm wrench after adjusting.

Speed Lock-in Screws (Turn 90°-180°)
Hold Open Control Hex Nut

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.

Manufacture 8mm: factory use only
Recessed 3mm: Reduce speed.
Recessed 5mm: Shift HDAZ.



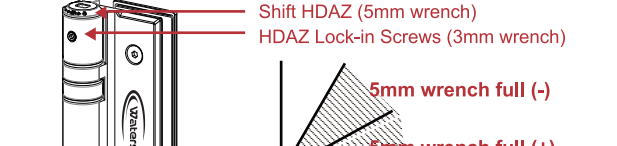
NOTE: Door will stop in HDAZ if you turn full (-), and may result in hydraulic mechanism damage.

CAUTION: Hydraulic mechanism operates best from 0-120°. Opening beyond 120° will damage hinge and violate warranty.

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



NOTE: We recommend adjusting the hydraulic zone before adjusting power (see H5).

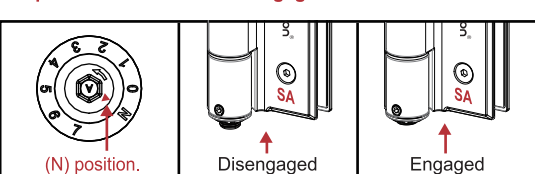
Latched Doors Process Set D2 & D3

Waterson D2 (HS.SB) is composed of HS and SB hinge. Waterson D3 (SA.HS.SB) is composed of SA, HS and SB hinge. This set is designed to provide soft closing in interior breezy environments, as well as on latchless doors.

D1 BEFORE ADJUSTING

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

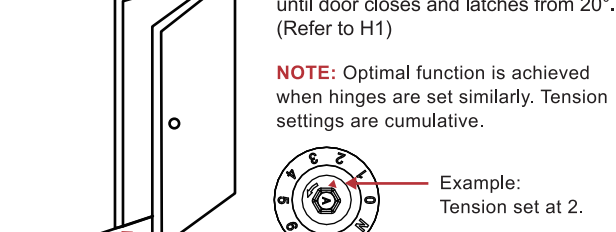
- Numerical panel at neutral (N) position
- Speed control hex nut disengaged



NOTE: Hinge positions are interchangeable.

D2 CLOSING FORCE SETTING

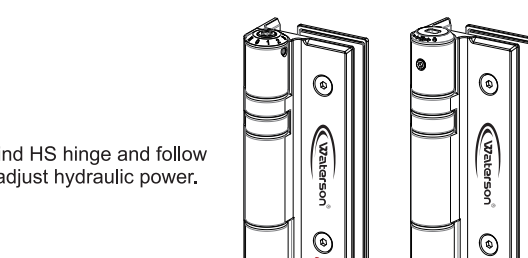
Increase tension one number at a time until door closes and latches from 20°.



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

Example: Tension set at 2.

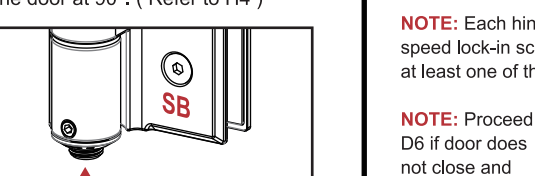
D3 ENABLING SWING & LATCH SPEED CONTROL



First, find HS hinge and follow H5 to adjust hydraulic power.

D4 ENABLING HOLD OPEN CONTROL

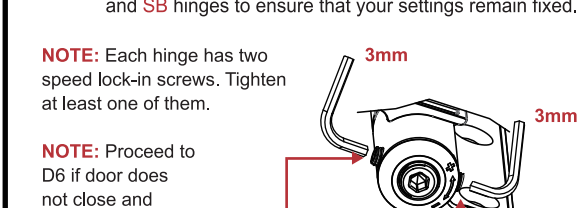
Adjust hold-open control (B) to hold the door at 90°. (Refer to H4)



Hold-open Control Hex Nut (B)

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.

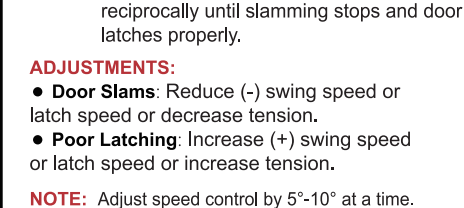


NOTE: Each hinge has two speed lock-in screws. Tighten at least one of them.

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

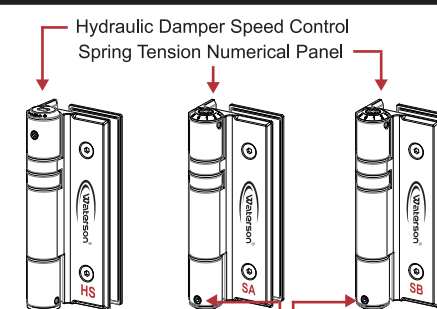
D6 FINE ADJUSTMENT

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.



Spring Tension Numerical Panel (S)
Swing Speed Control Hex Nut (A)
Hold-open Control Hex Nut (B)

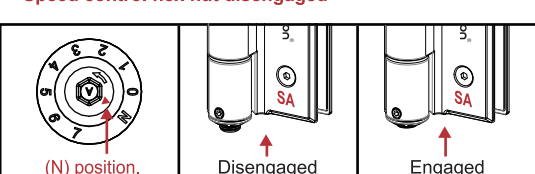
Latchless Door Process Set D2 & D3

Waterson D2 (HS.SB) is composed of HS and SB hinge. Waterson D3 (SA.HS.SB) is composed of SA, HS and SB hinge. This set is designed to provide soft closing in interior breezy environments, as well as on latchless doors.

d1 BEFORE ADJUSTING

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

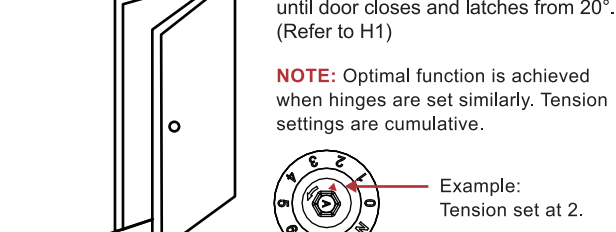
- Numerical panel at neutral (N) position
- Speed control hex nut disengaged



NOTE: Hinge positions are interchangeable.

d2 CLOSING FORCE SETTING

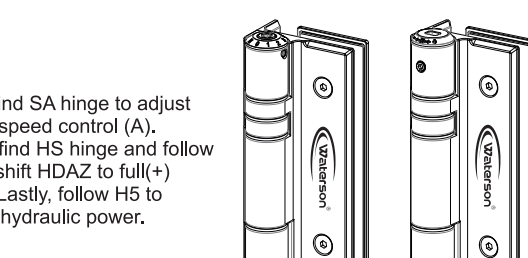
Increase tension one number at a time until door closes and latches from 20°.



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

Example: Tension set at 2.

d3 ENABLING SWING & LATCH SPEED CONTROL



First, find SA hinge to adjust swing speed control (A). Then, find HS hinge and follow H6 to shift HDAZ to full(+) zone. Lastly, follow H5 to adjust hydraulic power.

d4 ENABLING HOLD OPEN CONTROL

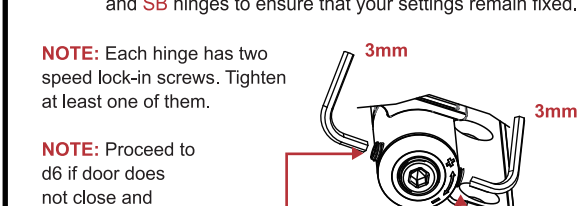
Adjust hold-open control (B) to hold the door at 90°. (Refer to H4)



Hold-open Control Hex Nut (B)

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.

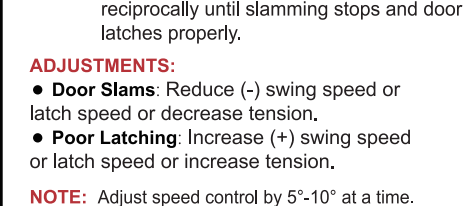


NOTE: Each hinge has two speed lock-in screws. Tighten at least one of them.

NOTE: Proceed to d6 if door does not close and latch properly.

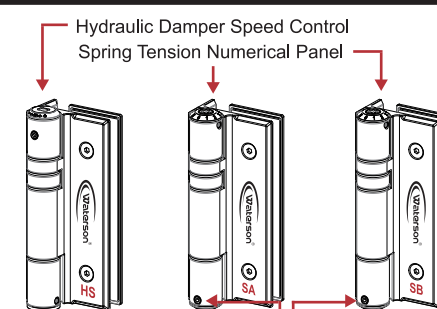
d6 FINE ADJUSTMENT

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.



Spring Tension Numerical Panel (S)
Swing Speed Control Hex Nut (A)
Hold-open Control Hex Nut (B)