



Adjustment Instructions

A3 B3 Series

How To Use This Sheet

ADJUSTMENT - SWING SPEED

Fast

is only adjusted on SA and HA hinge bottoms.

The following Installation Instructions are divided into three parts: I) How To Adjust key functions; II) Set A3 for setting mechanical only self-closing without hold-open; III) Set B3 for setting hydraulic hybrid soft closing without

How To Adjust

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

Stop

ADJUSTMENT - TENSION

numerical panel.

Use 5mm hex wrench to increase and decrease tension or

Increase Tension: Turn (\triangle) 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

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

Turn hex nut (-) to enable hold open.

Turn hex nut (+) to disable hold open

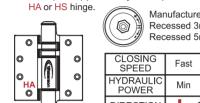
Use 5mm hex wrench to enable and disable hold open feature.

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

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

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

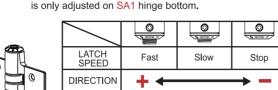
ADJUSTMENT - HOLD OPEN



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

Opening beyond 120° will damage hinge and violate warran

ADJUSTMENT - LATCH SPEED Use 5mm hex wrench to adjust swing speed. Swing speed Use 5mm hex wrench to adjust latch speed. Latch speed



NOTE: Lock speed lock-in screws with 3mm wrench after adjusting. NOTE: The door will stop altogether when hex nut is

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

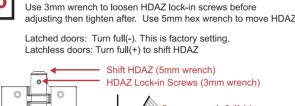




zone (HDAZ) power. Hydraulic power adjustment is only done on

CAUTION: Hydraulic mechanism operates best from 0-120°.

ADJUSTMENT - HYDRAULIC ZONE



5mm wrench full (+) NOTE: We recommend adjusting the hydraulic

Process Set A3

Waterson A3 (SA.SA.SA1) set is composed of two SA hinges and one SA1. This set is designed to provide heavy-duty commercial fire rated doors with speed control and self-closing.

BEFORE ADJUSTING

after adjusting.

Hold Open Control Hex Nut

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

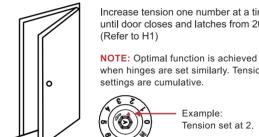
Speed Lock-in Screws (Turn 90°- 180°)

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

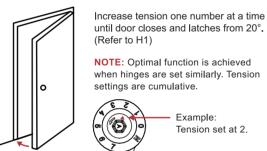


NOTE: Hinge positions are interchangeable

Tighten speed lock-in screws on A, SA1 and SB hinges to ensure that your settings remain fixed. NOTE: Each hinge has two speed lock-in screws. Tighten a least one of them. NOTE: Proceed to A5 if door



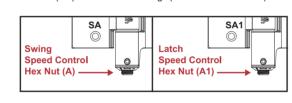
CLOSING FORCE SETTING



ENABLING SWING & LATCH SPEED CONTROL

zone before adjusting power (see H5).

First adjust swing speed control (A) then latch speed control (A1) to avoid slamming. (Refer to H2 and H3)



LOCK-IN PLACE

does not close and latch

Speed Lock-in Screws

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 — Swing Speed Control Latch Speed Control

Process Set B3

Waterson B3 (DS.HA.SA1) set is comprised of DS, HA and SA1 hinges.

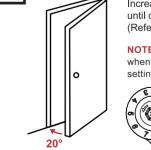
This set is designed to provide soft closing in interior breezy environments, as well as on latchless doors.

BEFORE ADJUSTING

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



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.

ENABLING SWING SPEED CONTROL

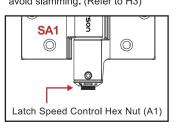
First adjust swing speed control (A) then hydraulic damper speed control (H) to avoid slamming. (Refer to H2, H5 and H6) Hydraulic Damper Speed Control (H)

NOTE: For latched doors, follow H5 procedure. For latchless door, first follow H6 to shift HDAZ then follow H5 to adjust hydraulic power

Swing Speed Control Hex Nut (A)

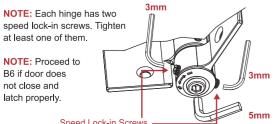
ENABLING LATCH SPEED CONTROL

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



LOCK-IN PLACE

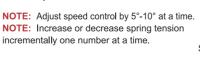
Tighten the barrel-side speed lock-in screws on SA, SA1 and SB hinges to ensure that your settings remain fixed.

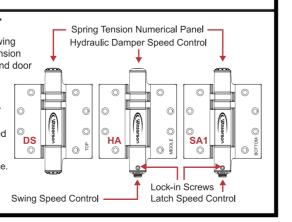


speed, latch speed, and closing tension reciprocally until slamming stops and door

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.

FINE ADJUSTMENT For optimal performance, adjust swing







Adjustment Instructions

C3 D3 Series

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

How To Adjust

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

ADJUSTMENT - TENSION

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

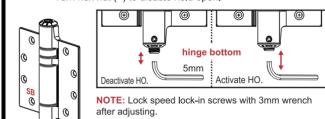
Increase Tension: Turn (\triangle) to greater number. Decrease Tension: Depress and turn to lower number



IOTE: 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

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.

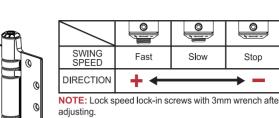


Turn hex nut (+) to disable hold open.

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

ADJUSTMENT - SWING SPEED





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





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 warra

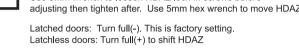
ADJUSTMENT - LATCH SPEED Use 5mm hex wrench to adjust latch speed. Latch speed is only adjusted on SA1 hinge bottom. Slow Stop DIRECTION | NOTE: Lock speed lock-in screws with 3mm wrench after adjusting

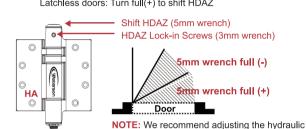
NOTE: The door will stop altogether when hex nut is tightened.

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

ADJUSTMENT - HYDRAULIC ZONE

Use 3mm wrench to loosen HDAZ lock-in screws before





zone before adjusting power (see H5). Waterson C3 (SB.SA.SA1) set is composed of SB,SA and SA1 hinges. This set is designed to

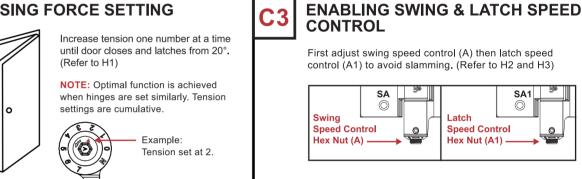
Process Set C3

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



CLOSING FORCE SETTING (Refer to H1)

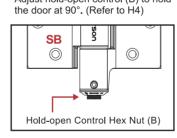


speed, latch speed, and closing tension

ENABLING HOLD OPEN CONTROL

Adjust hold-open control (B) to hold

NOTE: Hinge positions are interchangeable



ighten speed lock-in screws on SA, SA1 and SE

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 C6 if door does not close and latch

LOCK-IN PLACE

NOTE: Each hinge has two

not close and

latch properly.

LOCK-IN PLACE

FINE ADJUSTMENT For optimal performance, adjust swing

provide heavy-duty commercial doors with self-closing, speed control, and hold-open.

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 Lock-in Screws 📍 Lock-in Screws 💠 incrementally one number at a time. Hold Open Control Swing Speed Control Latch Speed Contro

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.

BEFORE ADJUSTING Install door so it swings freely and latches. Hinges should be

ENABLING HOLD

OPEN CONTROL

the door at 90°. (Refer to H4)

 \bigcirc

Adjust hold-open control (B) to hold

Hold-open Control Hex Nut (B)

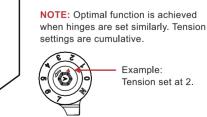
in the following factory settings upon installation: Speed control hex nut disengaged



Fighten the barrel-side speed lock-in screws on SA, SA1

and SB hinges to ensure that your settings remain fixed.

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



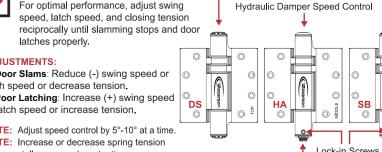
ENABLING SWING SPEED CONTROL First adjust swing speed control (A) then hydraulic damper speed control (H) to avoid slamming. (Refer to H2, H5 and H6) Hydraulic Damper Speed Control (H) NOTE: For latched doors, follow H5

procedure. For latchless door, first follow H6 to shift HDAZ then follow H5 to adjust hydraulic power. Swing Speed Control Hex Nut (A)

Spring Tension Numerical Panel ——

Spring Tension Numerical Panel -

FINE ADJUSTMENT For optimal performance, adjust swing



speed lock-in screws. Tighter at least one of them. NOTE: Proceed to D6 if door does

• 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. Lock-in Screws Swing Speed Control Hold Open Control