



8600 IS, ISJ ISH, ISJH



Surface closer

Installation instructions

Pull side stop IS arm regular mount

Push side stop ISJ arm top jamb mount

Pull side stop ISH arm regular mount, with hold open

Push side stop ISJH arm top jamb mount, with hold open

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Technical specifications

Size selection chart

| Arm | Closer | Door Width | | | | | | |
|-----------------------|--------|------------|-------|-------|-------|-------|-------|-------|
| | | Interior/ | 2'-0" | 2'-6" | 3'-0" | 3'-6" | 4'-0" | 4'-6" |
| | | Exterior | max. | max. | max. | max. | max. | |
| IS, ISH, ISJ, ISJH | 8616 | Interior | • | • | ♿ | • | • | • |
| | | Exterior | • | • | • | • | • | NA |

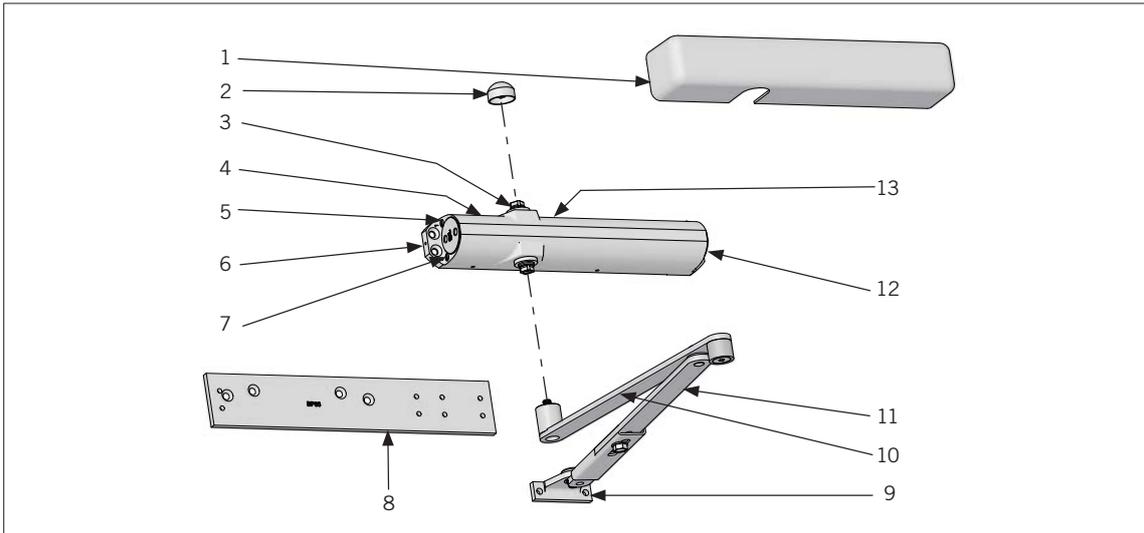
Spring size chart

| Regular & top jamb closers | | | |
|----------------------------|----------|----------|------------|
| Maximum size of door width | | | |
| Closer size | Interior | Exterior | Full turns |
| 1 | 28" | | |
| 2 | 34" | 28" | -19 CCW |
| 3 | 38" | 30" | -11 CCW |
| 4 | 48" | 36" | 0 turns |
| 5 | 54" | 42" | +5 CW |
| 6 | | | +13 CW |

8600 IS, ISH, ISJ, ISJH

Closer setup

- ⚠ Follow included template to properly prepare door frame for all accessories of the closer installation.
- ⚠ Know the swing of the door which is being installed prior to installation.
- ⚠ Verify closer spring size prior to installation. See "Spring size chart" on page 2.
- ⚠ Make sure door efficiently operates prior to installing closer.

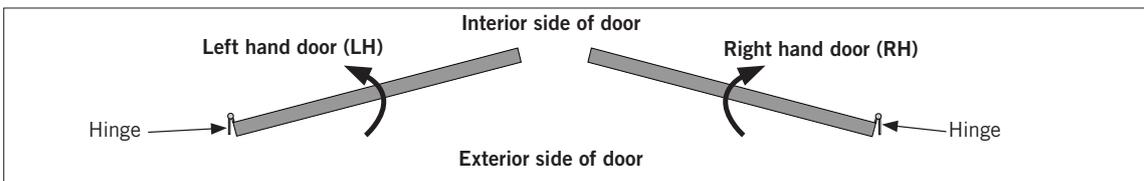


Surface closer system

The closer is comprised of the following components.

- | | |
|-----------------------------------|---------------------------|
| 1. Cover | 8. Optional backplate |
| 2. Dust cap | 9. Bar/shoe assembly |
| 3. Pinion screw | 10. Main arm |
| 4. Delayed action adjustment | 11. Connecting arm |
| 5. Latch speed adjustment | 12. Backcheck adjustment |
| 6. Closer body | 13. Backcheck positioning |
| 7. Closing/sweep speed adjustment | |

Handing of the door



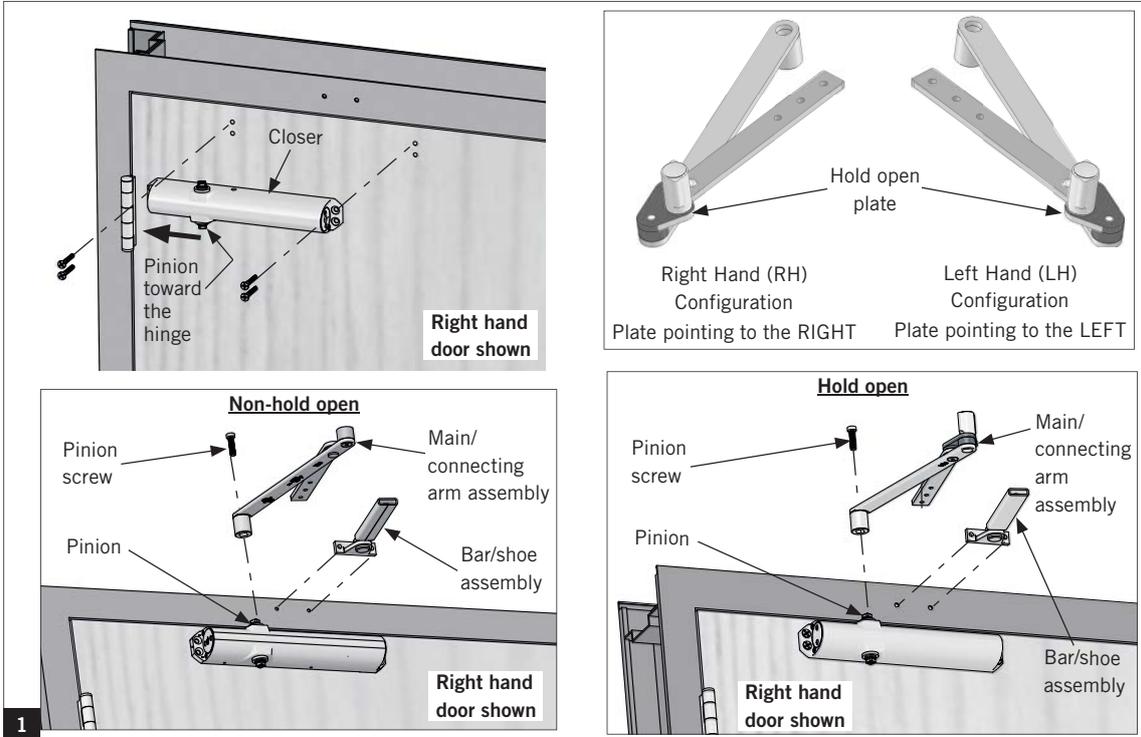
Tools recommended

- Drill Bits
 - Metal: 7/32" & 1/4-20 tap
 - Wood: 5/32"
 - DPK: 1/8"
 - Sex nut: 3/8"
- #3 Phillips screwdriver
- 1/2" or 13mm box wrench
- 10" adjustable wrench
- 3/16" hex key
- 5mm hex key (supplied)

8600 IS, ISH PULL SIDE, REGULAR MOUNT

Installation Instructions

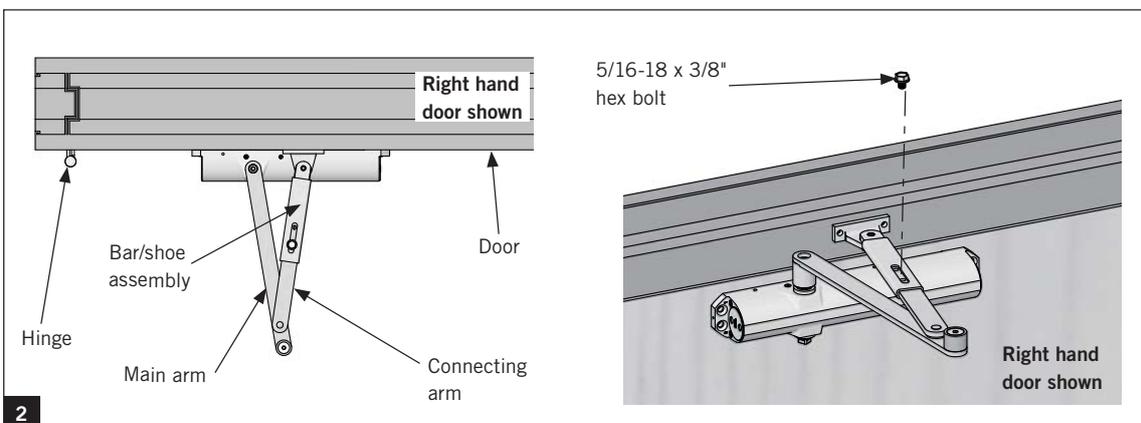
Mounting the surface closer & arm assembly (reg mnt)



- 1.1** Secure closer body to door.
- Use four 1-1/4" combo screws provided.
- 1.2** Secure the bar/shoe assembly to frame.
- Use two 1/4-20 x 5/8" Phillips round head screws [#14 x 1-1/4" round head wood screws] provided.
- 1.3** Secure main arm to operator pinion.
- Use a torque wrench (25 ft-lbs) and provided pinion screw [M8 x 30 socket head cap screw].

NOTE: To change handing, disassemble hold open plate:

- Remove both screws from bottom of plate using a 3/16" hex key.
- Keeping all washers in place, flip plate over to orient as per image above.
- Re-secure plate with both screws.

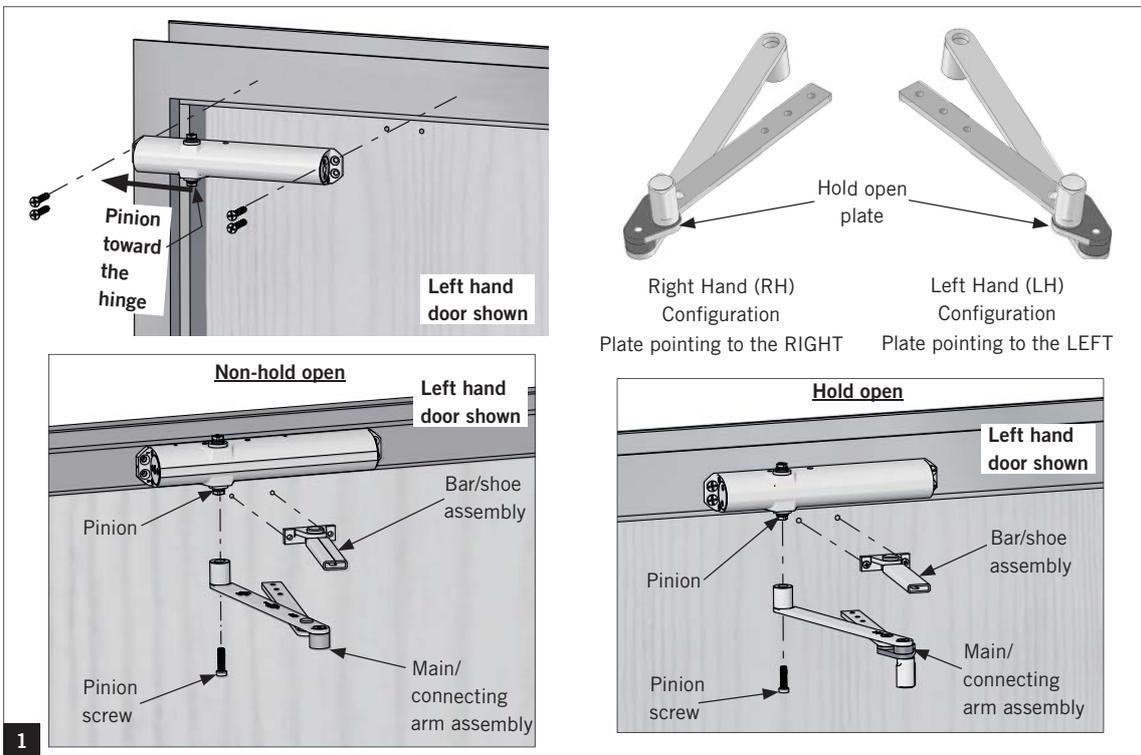


- 2.1** Slide end of connecting arm into end of bar/shoe assembly.

- 2.2** Secure connecting arm and bar/shoe assembly.
- Use provided fastener [5/16-18 x 3/8 hex bolt].

8600 ISJ, ISJH PUSH SIDE, TOP JAMB MOUNT

Mounting the surface closer & arm assembly (top jamb mnt)



1

1.1 Secure closer body to frame.

- Use four 1/4-20 x 5/8" Phillips flat head screws provided.

1.2 Secure bar/shoe assembly to mounting surface.

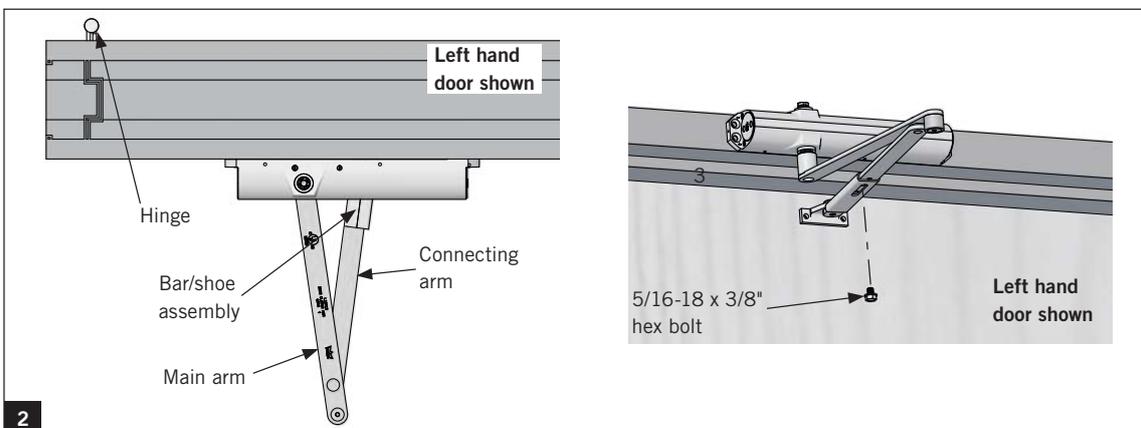
- Use two 1/4-20 x 5/8" Phillips round head screws [#14 x 1-1/4" round head wood screws] provided.

1.3 Secure main arm to operator pinion.

- Use a torque wrench (25 ft-lbs) and provided pinion screw [M8 x 30 socket head cap screw].

NOTE: To change handing, disassemble hold open plate:

- Remove both screws from bottom of plate using a 4mm hex key.
- Keeping all washers in place, flip plate over to orient as per image above.
- Resecure plate with both screws.



2

2.1 Slide end of connecting arm into end of bar/shoe assembly.

2.2 Secure connecting arm and bar/shoe assembly.

- Use provided fastener [5/16-18 x 3/8 hex bolt].

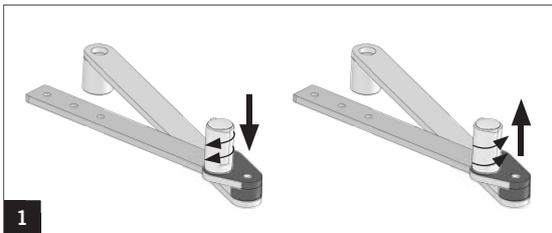
8600 IS, ISH, ISJ, ISJH CLOSER ADJUSTMENTS

Adjustments

- ⚠ Confirm closer spring size prior to making any closing speed adjustments.
- ⚠ Do not back valves out beyond closer casting.

- ⚠ Door should close in 3 to 6 seconds from 90°.
- ⚠ Maximum opening angle is 110°.

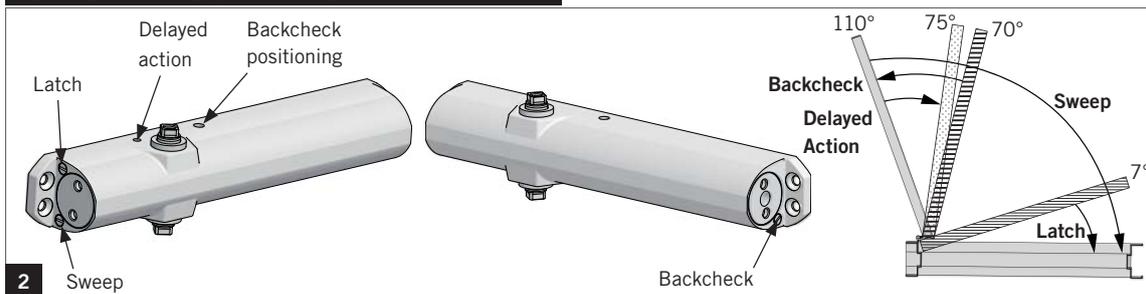
Setting the hold open (ISH and ISJH)



- 1.1** Enabling or disabling hold open.
- Twist hold open handle up or down to loosen or tighten, respectively, the hold open capacity.

- 1.2** Engaging or disengaging hold open.
- Engaging hold open: Push door open until hold open ball connects with detent in handle.
 - Disengaging hold open: Pull door to pop hold open ball out of detent.

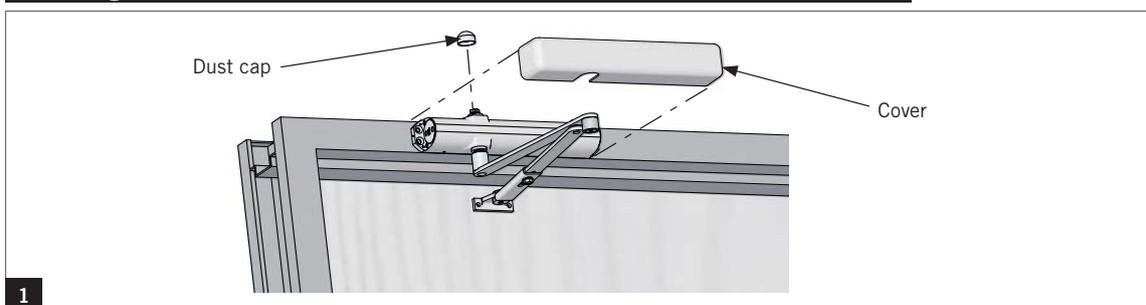
Adjusting the closing speeds: sweep, latch, and backcheck



- 2.1** Adjust **sweep speed** from 70° - 10°.
- Increase sweep speed: Turn valve counter-clockwise
 - Decrease sweep speed: Turn valve clockwise
- 2.2** Adjust **latch speed** from 10° - 0°.
- Increase latch speed: Turn valve counter-clockwise
 - Decrease latch speed: Turn valve clockwise
- 2.3** Adjust **backcheck** for the area from 110° - 70°.
- Increase resistance: Turn valve clockwise
 - Decrease resistance: Turn valve counter-clockwise.

- 2.4** Adjusting **Backcheck positioning** will advance approximately 15° in the "ON" position. Shipped from factory fully "ON".
- Turn OFF: Rotate counter-clockwise
 - Turn ON: Rotate clockwise
- 2.5** Adjust **Delayed Action** for the area from 110° - 75°.
- Increase delay: Turn valve counter-clockwise
 - Decrease delay: Turn valve clockwise

Installing the closer cover



- 1.1** Snap cover over closer body.

- 1.2** Screw dust cap onto exposed pinion.



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