Norton®

ASSA ABLOY

# Installation Instructions

# 8000H Series Tri-Style
## Non Handed Door Closer
## Hold Open Arm Models

| Sized (Sizes 2,3,4,5,6) | Adjustable (Sizes 1 thru 6) |
|---|---|
| 8100H<br>8300H<br>8500H | 8301H<br>8501H |



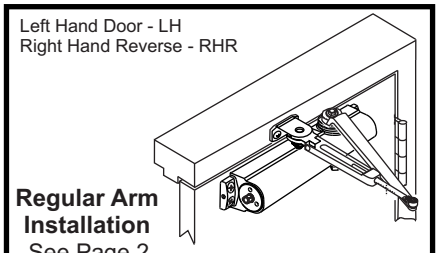


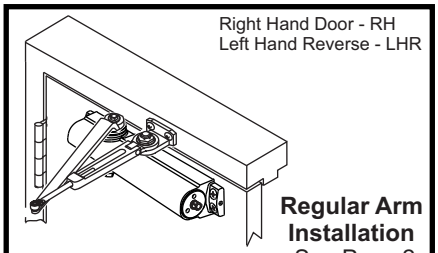
**CAUTION** An Incorrectly installed or improperly adjusted door closer can cause property damage or personal injury. These installation instructions should be followed to avoid the possibility of misapplication or misadjustment. **CAUTION**

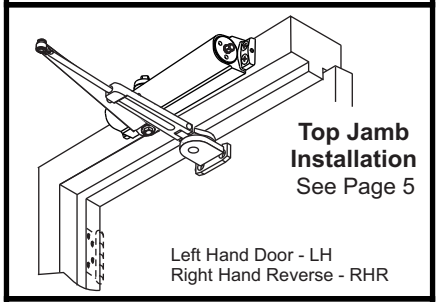
"DA" suffix (Delayed Action) is an optional feature.

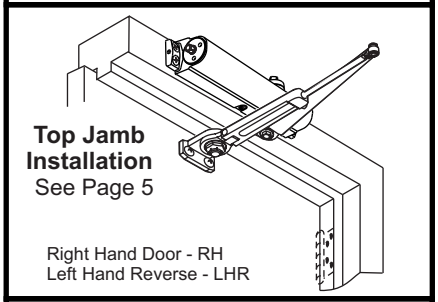
**NOTE:** For special applications a separate door and frame preparation template is packed with these instructions. Use this instruction sheet for installation sequence and closer adjustments only.

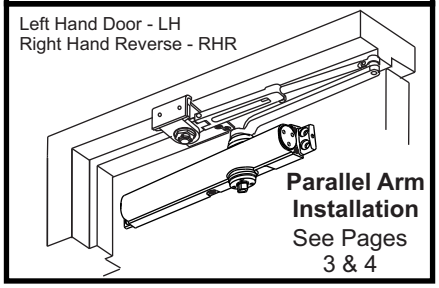
- Doors should be hung on ball bearing or anti-friction hinges.
- A separate door stop is recommended.
- Door and frame must be properly reinforced.
- Adjust closing time speed between 3 and 7 seconds from 90° to 0°. Greater closing times may be required for elderly or handicapped.
- These door closers should NOT be installed on the exposed side (weather side) of exterior doors.

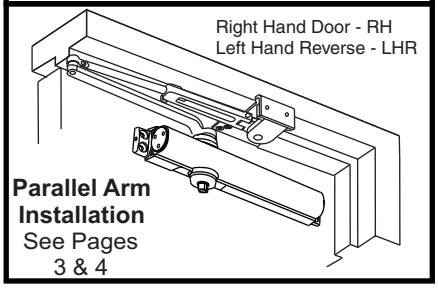


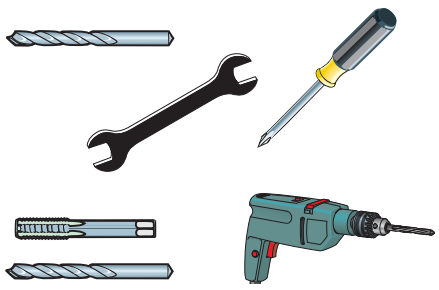



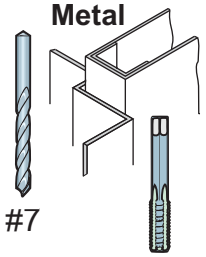



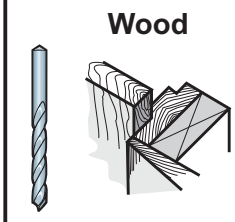






**Self Drilling Screws Wood and Metal**



For Wood drill 3/16 hole

**Machine Screws**



#7 Drill, 1/4-20 Tap

**(Optional)**

**Sleeve Nut and Bolt**

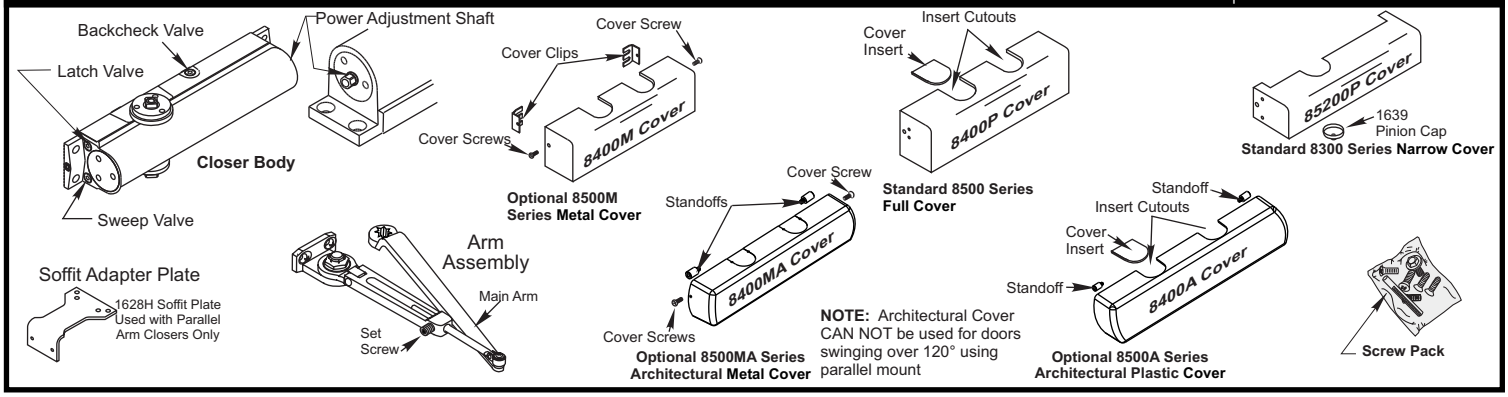


Drill 9/32 thru from Closer Side
3/8 Drill other side

**Thru Bolt and Grommet Nut**



Drill 9/32 thru from Closer Side
3/8 Drill other Side




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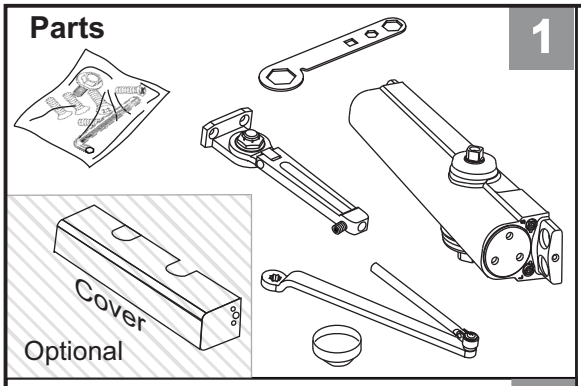
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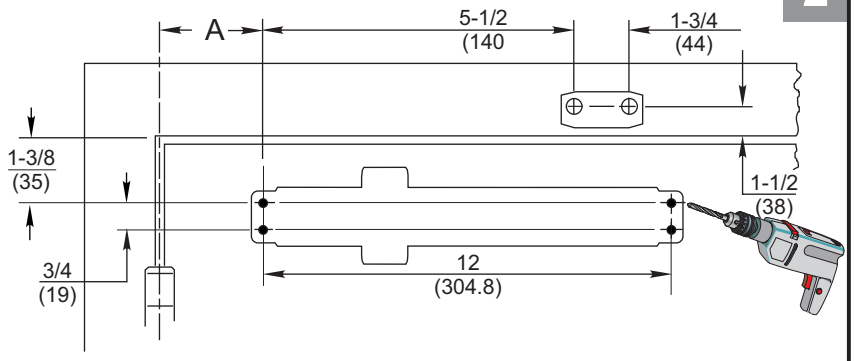
# 8000H Series
## Hold Open Arm Door Closers — **Regular Arm**

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### Parts 1




### Mark and Drill Holes 2



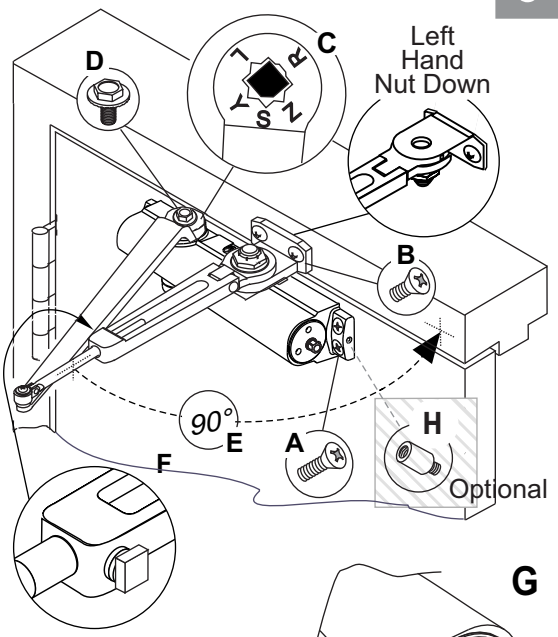

| Opening | Dimension "A" |
|---|---|
| To 100° | 7-1/2 (191) |
| 101° to 130° | 6 (152) |
| 131° to *180° | 4-1/2 (114) |

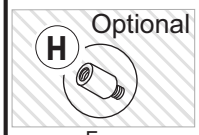
Right Hand Shown

Inches
(mm)

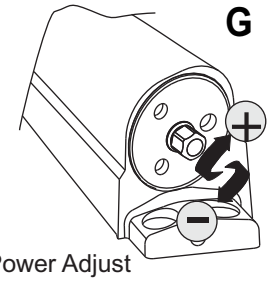
* Door/Wall/Hardware/Jamb conditions permitting

### Installation Sequence 3



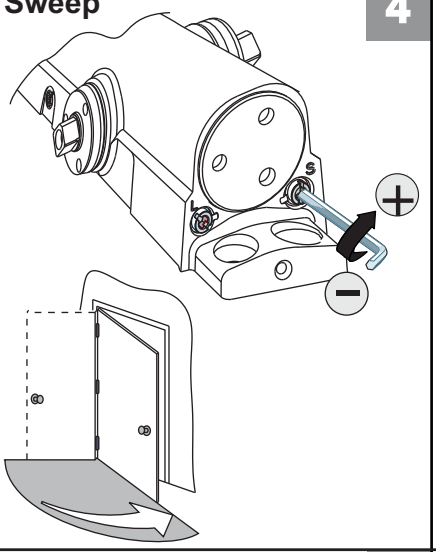




For
8500 Architectural
Cover Only

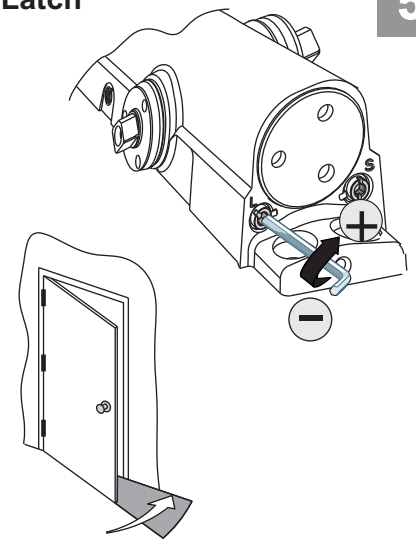



Spring Power Adjust
(If Necessary)

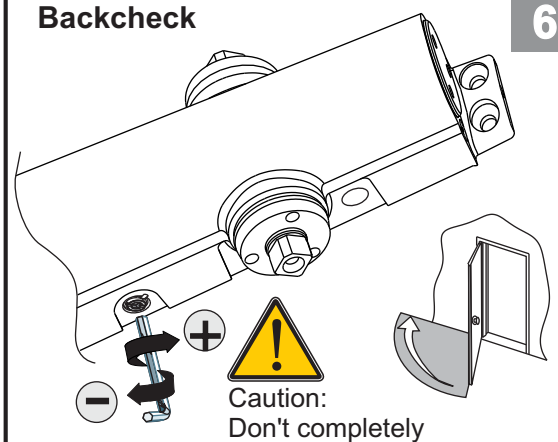
### Sweep 4



### Latch 5

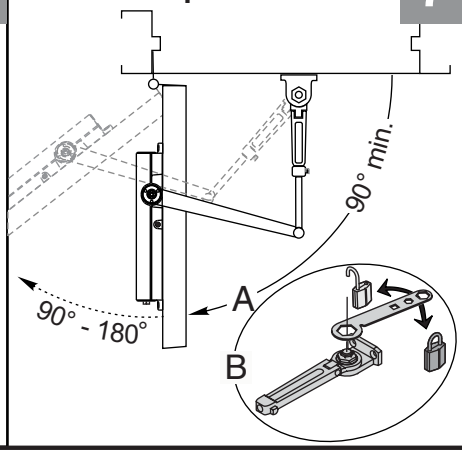


### Backcheck 6

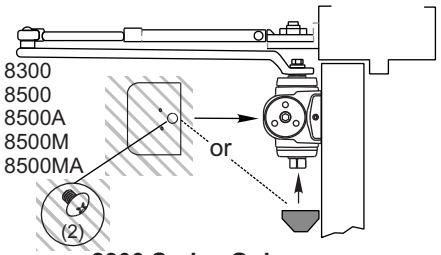


Caution:
Don't completely
close valve

### Set Hold Open 7




### Pinion Cap or Optional Cover 8




**8300 Series Only**
Screw pinion cap onto pinion shaft by hand or with a Phillips screw driver - DO NOT OVER TIGHTEN.

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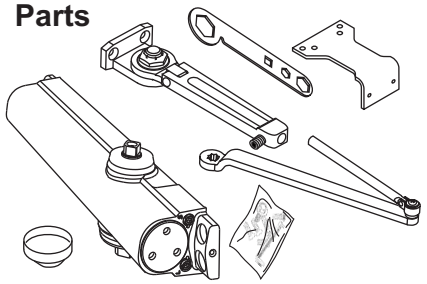
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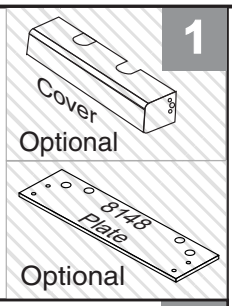
80-9380-2207-020 (05-14)

# 8000H Series
# Hold Open Arm Door Closers — **Parallel Arm**

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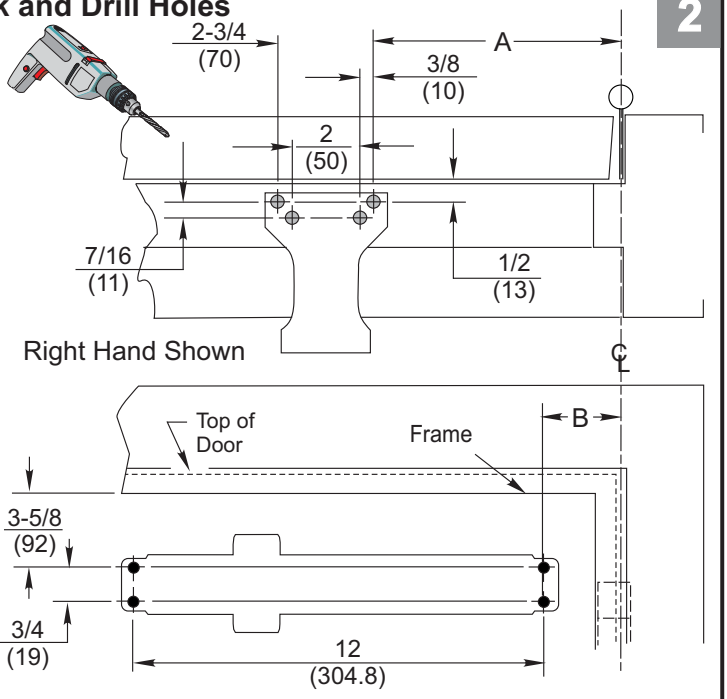
## Parts






## 1

## Mark and Drill Holes



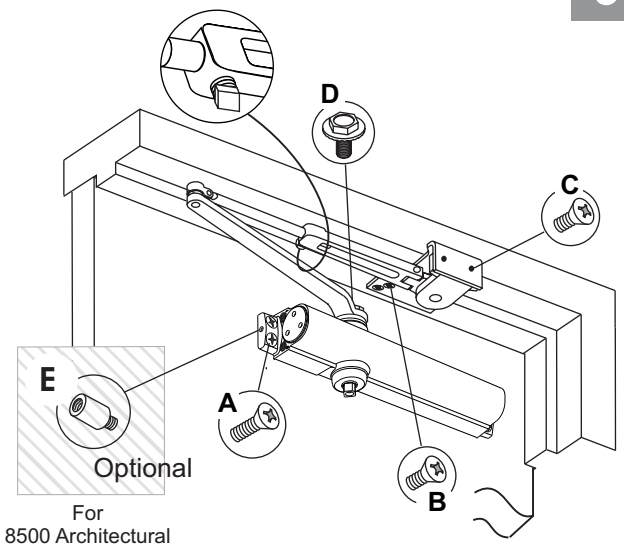

## 2

Inches
(mm)

| Door Opening | A ⊕ | B ● |
|---|---|---|
| To 120° | 9-1/2 (241) | 3-3/4 (95) |
| *121° to 180° | 7 (178) | 1-1/4 (32) |

* Door/Wall/Hardware/Jamb conditions permitting

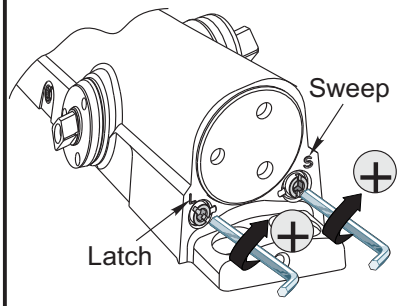
## Installation Sequence




For
8500 Architectural
Cover Only

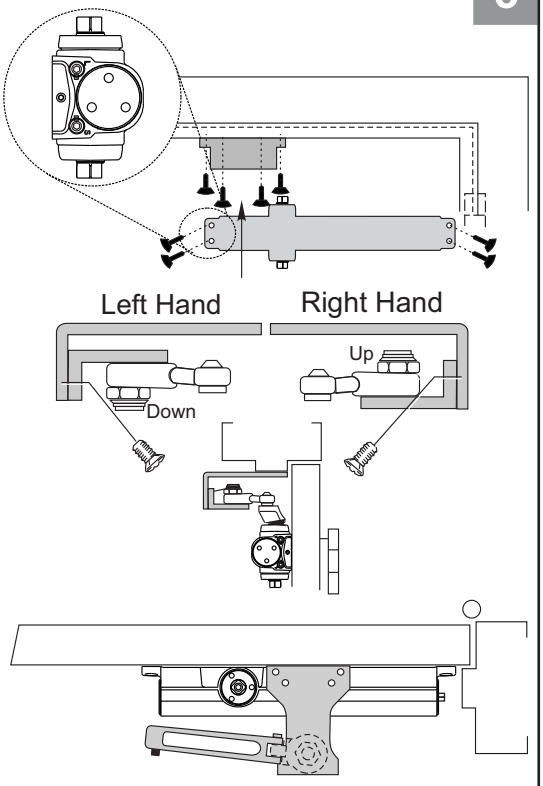
## 3

## Close Valves



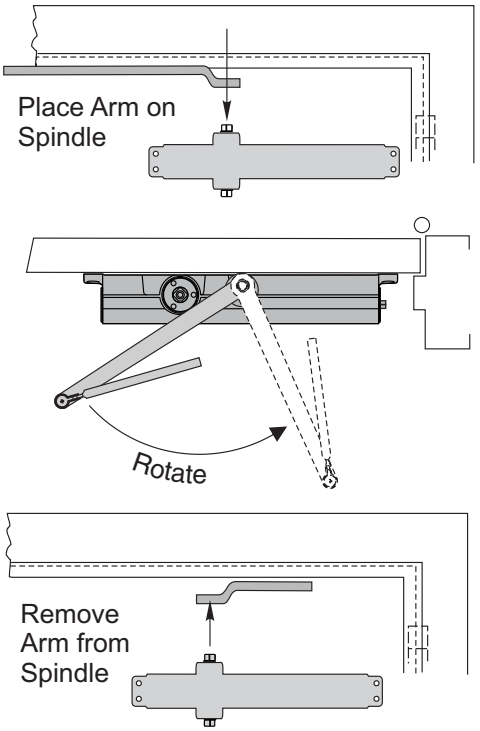

## 4

## Install Closer and Bracket




## 5

## Preload Closer




## 6

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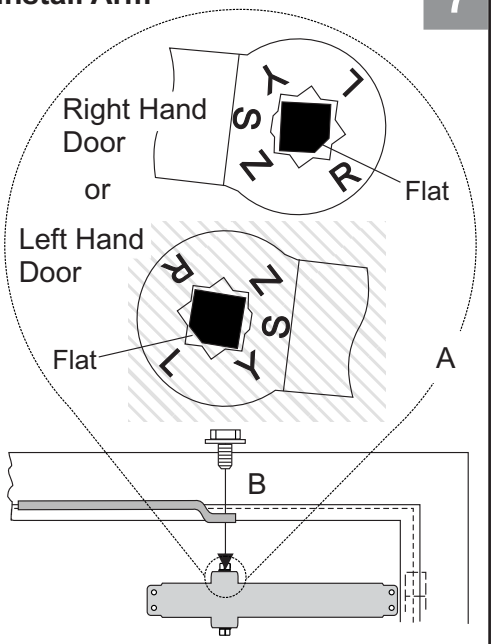


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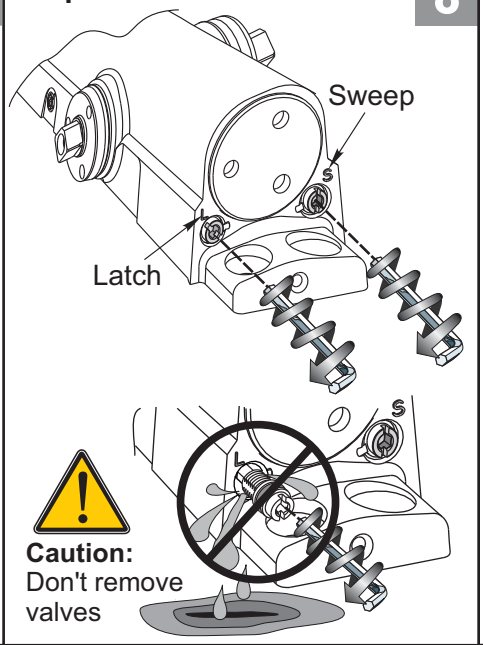
80-9380-2207-020 (05-14)

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## Install Arm 7



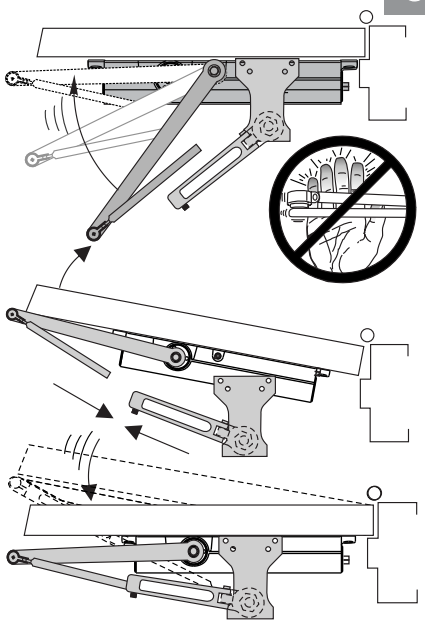

## Open Valves 8



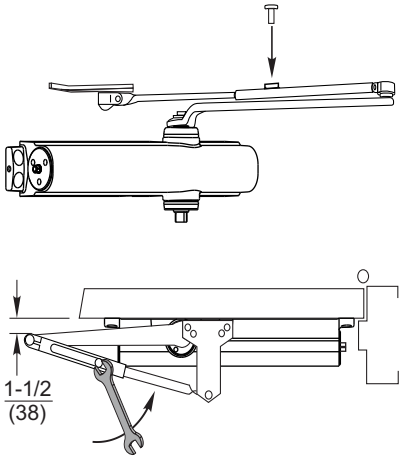



**Caution:** Don't remove valves

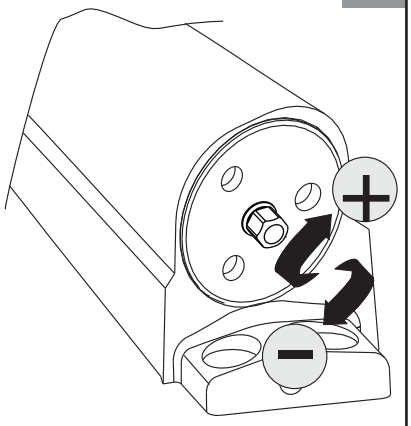
## Assemble Arm 9



## Attach Arm Screw 10

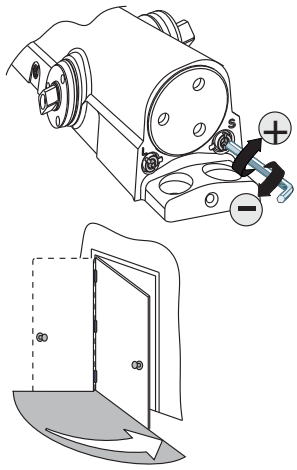



## 11

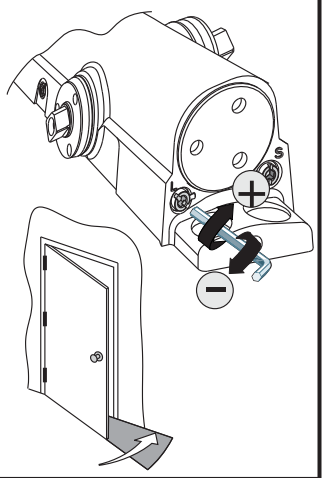


Spring Power Adjust
(If Necessary)

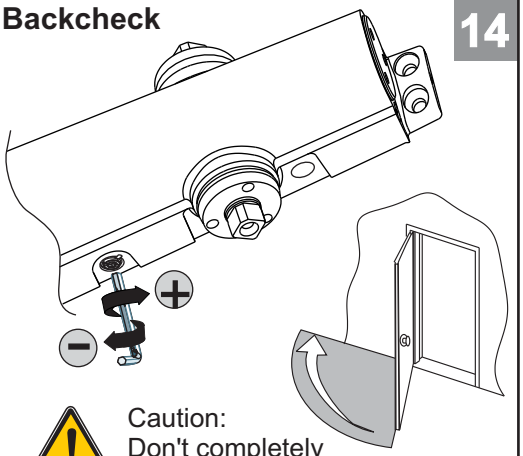
## Sweep 12



## Latch 13

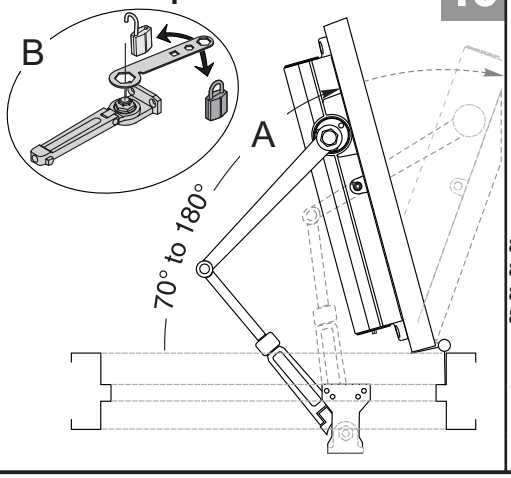


## Backcheck 14

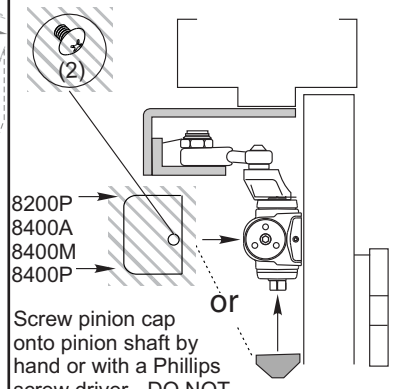


Caution:
Don't completely close valve

## Set Hold Open 15




## Pinion Cap or Optional Cover 16




Screw pinion cap onto pinion shaft by hand or with a Phillips screw driver - DO NOT OVER TIGHTEN.

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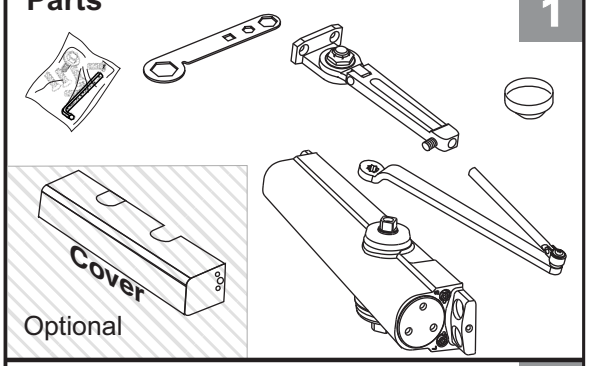
80-9380-2207-020 (05-14)

# 8000H Series

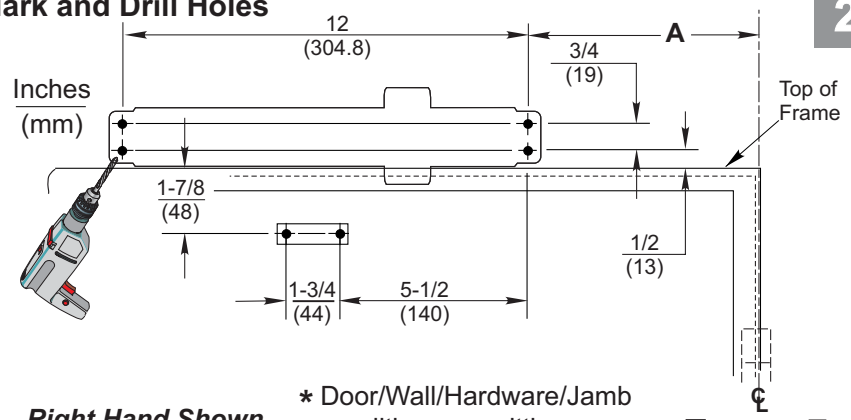
## Hold Open Arm Door Closers — **Top Jamb Arm**

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### Parts 1




### Mark and Drill Holes 2

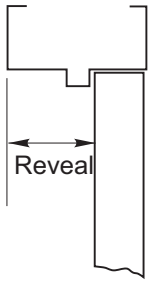



***Right Hand Shown***

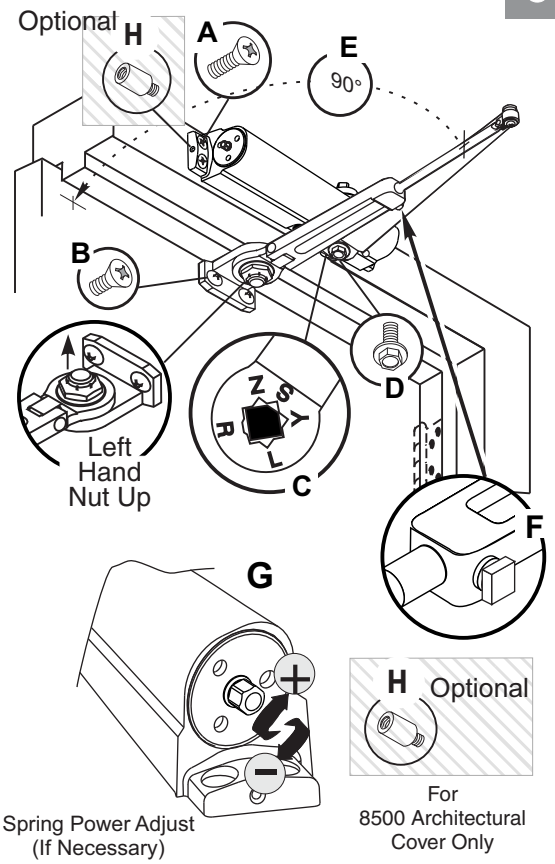
* Door/Wall/Hardware/Jamb conditions permitting

| Opening | Dimension "A" |
|---|---|
| To 100° | 7-1/2 (191) |
| 101° to 130° | 6 (152) |
| 131° to *180° | 4-1/2 (114) |

A longer connecting rod is required for reveals greater than 3" (76)



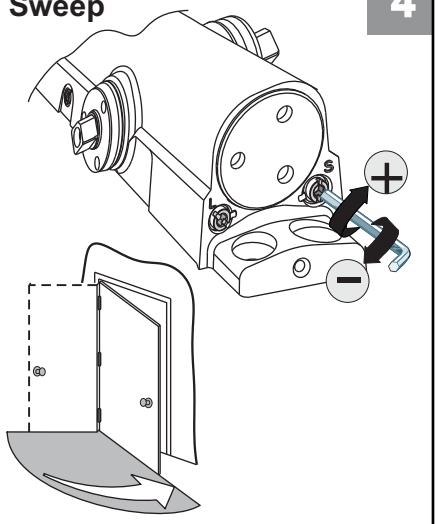

### Installation Sequence 3



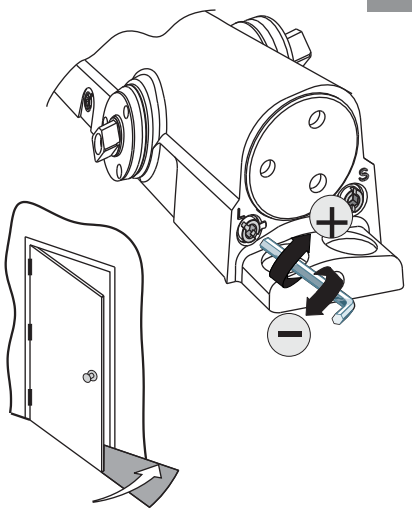

Spring Power Adjust (If Necessary)

For 8500 Architectural Cover Only

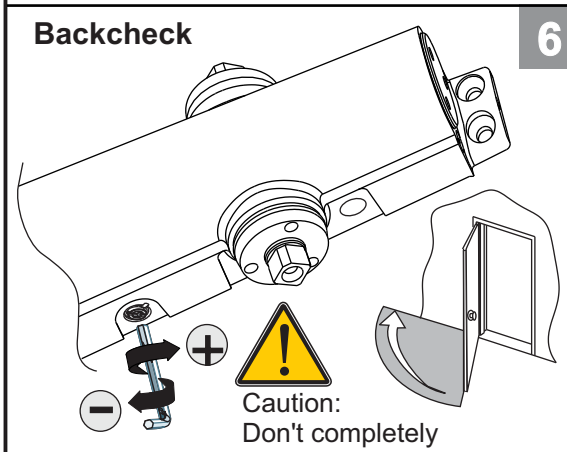
### Sweep 4



### Latch 5

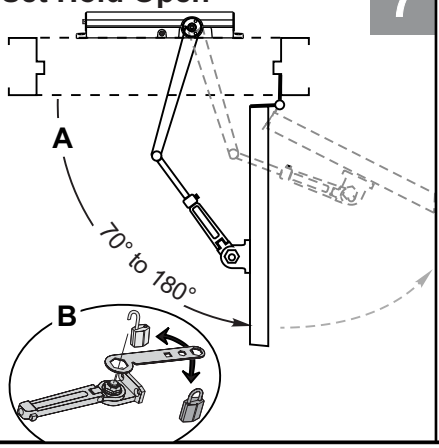


### Backcheck 6

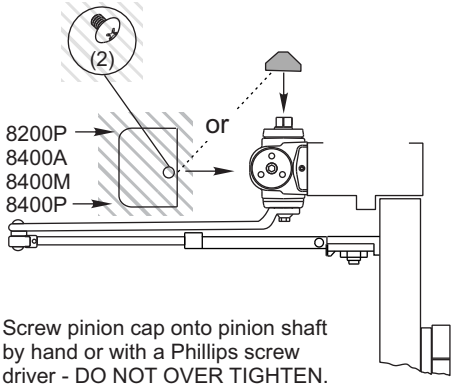


Caution:
Don't completely close valve

### Set Hold Open 7




### Pinion Cap or Optional Cover 8




Screw pinion cap onto pinion shaft by hand or with a Phillips screw driver - DO NOT OVER TIGHTEN.

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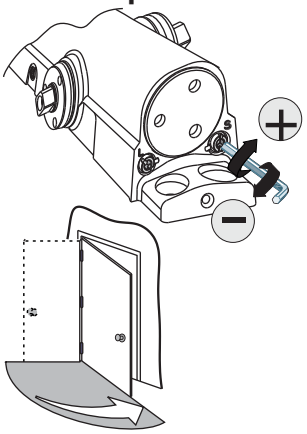
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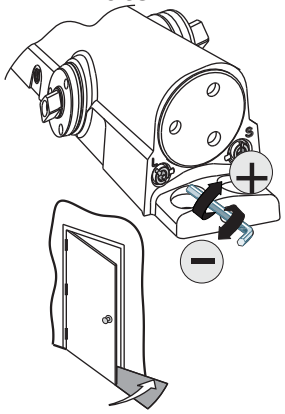
# 8000H Series Adjustments Page

(Use 1/8" Hex Wrench for these Adjustments)

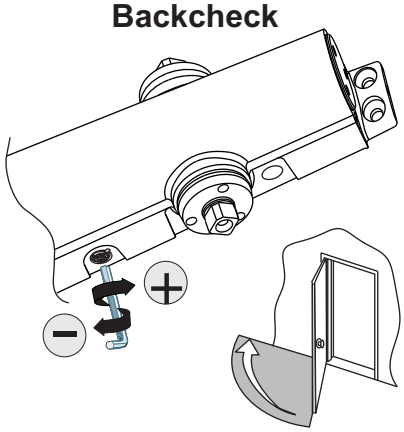
**Sweep**

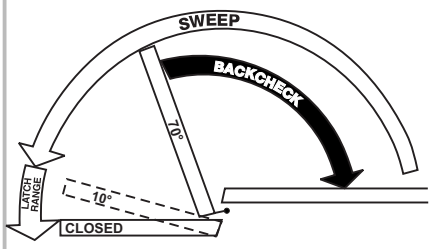


**Latch**

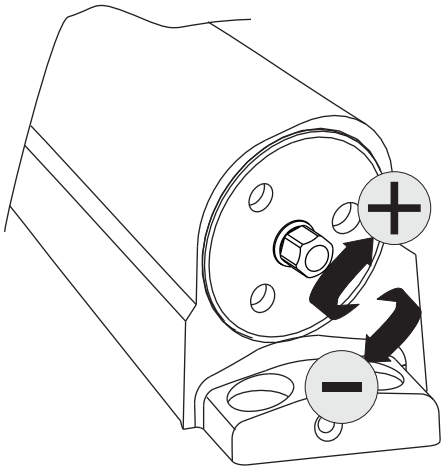


**Backcheck**






## Spring Power Adjust



(Use 5/16" socket or adjustable wrench for this adjustment)

### Adjustment Chart

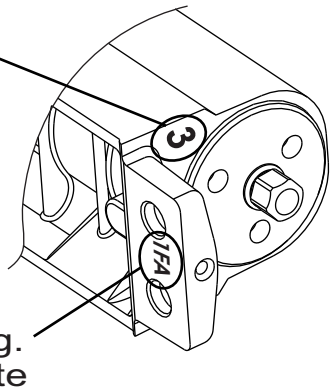
| | DOOR | TYPE OF INST. | * | Number of Turns Required MAXIMUM DOOR SIZE 32" (0.85M) | 36" (0.90M) | 42" (1.00M) | 48" (1.20M) |
|---|---|---|---|---|---|---|---|
| 8100/8300/8500 | INTERIOR | Regular Arm Top Jamb | FULL 360° TURNS OF 5/16 POWER ADJUSTMENT WRENCH | 5 | 8 | 11 | 13 |
| | | Parallel Arm | | 7 | 10 | 13 | 16 |
| | EXTERIOR | Regular Arm Top Jamb | | 7 | 10 | 13 | 16 |
| | | Parallel Arm | | 9 | 12 | 15 | 18 |

*20 FULL (360°) TURNS MAXIMUM AVAILABLE

Closer is shipped set at mid range setting = 10 turns

**To identify your model:**

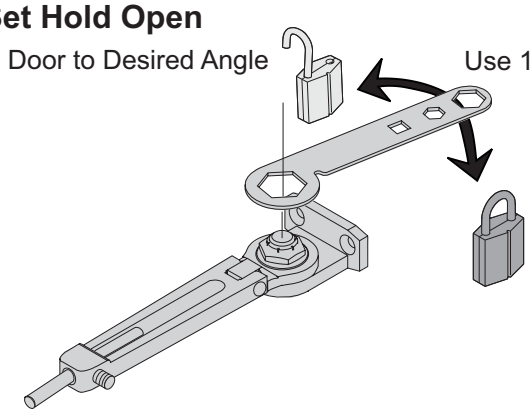
Closer Size
**Blank** = 8301/8501
**2** = 8302/8502
**3** = 8303/8503
**4** = 8304/8504
**5** = 8305/8505
**6** = 8306/8506




**To Set Hold Open**

Open Door to Desired Angle

Use 1" Wrench



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