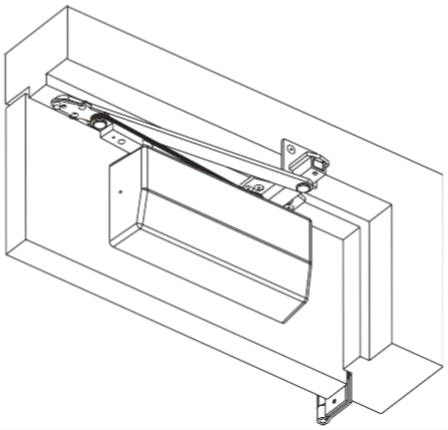
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# Installation Instructions

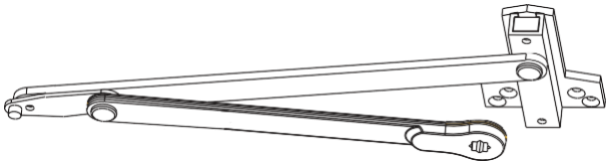
As Easy As A–B–C→F



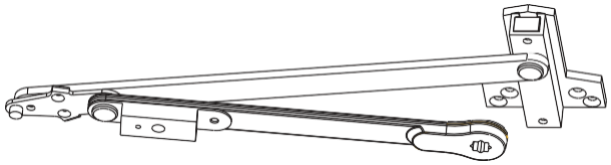
## DC8210 Series

**Multi-Sized1 thru 6**

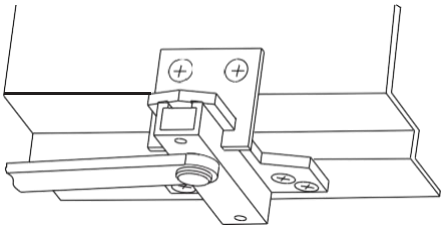
**Universal Door Closers with Unitrol® Arms (by Norton)**



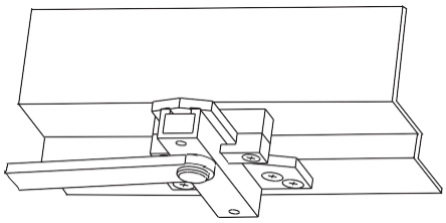
**A11 - Non-Hold Open Arm**



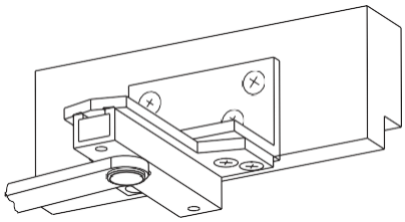
**A12- Hold Open Arm**



**STANDARD APPLICATION WITH 615F58 BRACKET**



**DEEP REVEAL APPLICATION WITH M103 OPTION(615F59 CLAMP KIT)**



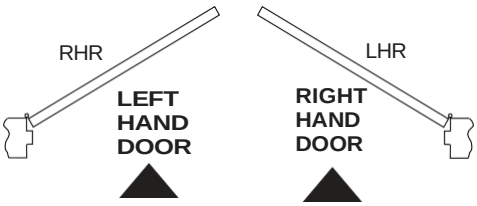
**FLUSH PARTITION APPLICATION WITH M104 OPTION (615F60 BRACKET)**

## IMPORTANT:

- An improperly installed or incorrectly adjusted door closer may cause **property damage** or **personal injury;** and will void product warranty.
- To avoid personal injury, **DO NOT DISASSEMBLE THIS DOOR CLOSER BODY.**
- Door closers must be securely fastened to a properly reinforced door and frame with fasteners provided.
- Door closers witha HOLD OPEN ARM (A12) are not permitted to be installed in fire door assemblies.
- Door and frame must be specifically templated for 85°, 90°, 95°, 100°, 105° or 110° door swing.

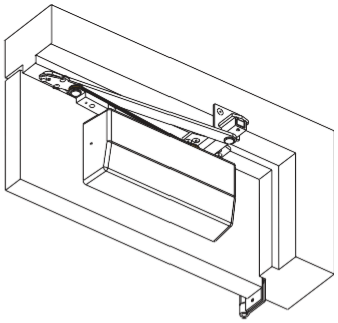
| Size of Door & Door Closer | | | | | |
|---|---|---|---|---|---|
| Type of Installation | Interior | Exterior In -swinging | Exterior Out -swinging | Recommended Closer Size | **Max. Opening Force lbs/f |
| Parallel Arm | 2'4" | ——— | ——— | 1 | 8 |
| | 2'6" | ——— | ——— | 2 | 14 |
| | 3'0" | ——— | 2'6" | 3 | 16 |
| | 3'6" | ——— | 3'0" | 4 | 22 |
| | 4'0" | ——— | 3'6" | 5 | 24 |
| | 4'6" | ——— | 4'0" | 6 | 26 |

## TO DETERMINE HAND OF YOUR DOOR:




****NOTE: These forces are for standard templating with bearing type hinges and do not account for pressure differentials and draft.**

# DC8210 x A11 or A12 Parallel Arm Installation Instructions



A — B C D E F

This & Next Page — Following Pages ( 3, 4, 5 )

**NOTE:**

- See chart to select degree of door opening and Door width for your door. Then, determine frame condition: STANDARD & DEEP REVEAL (use **Dim**'s. **A** & **B**) or FLUSH PARTITION (use **Dim**'s **A** & **C**).
- MINIMUM TOP RAIL for Standard Application: 5 (127)
- MINIMUM TOP RAIL for Drop Plate Application: 2 (51)

***Dimension "C"** is only used for Flush Partition application (Frame Template 3).

| Opening | | DOORS 28" TO 32" 615F52 NHO ARM (A11) 615F51 HO ARM (A12) | | | DOORS 33" TO 41" 615F54 NHO ARM (A11) 615F53 HO ARM (A12) | | | DOORS 42" TO 48" 615F56 NHO ARM (A11) 615F55 HO ARM (A12) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| HOLD OPEN | DEAD STOP | Dim. A | Dim. B | *Dim. C | Dim. A | Dim. B | *Dim. C | Dim. A | Dim. B | *Dim. C |
| 85° | 90° | 5-3/4 (146) | 9-3/4 (248) | 9-7/8 (251) | 8-1/8 (206) | 11-7/8 (302) | 12 (305) | 10-1/4 (260) | 14-1/4 (362) | 14-3/8 (365) |
| 90° | 95° | 5-1/4 (133) | 9-1/4 (235) | 9-3/8 (238) | 7-5/8 (194) | 11-3/8 (289) | 11-1/2 (292) | 9-3/4 (248) | 13-3/4 (349) | 13-7/8 (352) |
| 95° | 100° | 4-3/4 (121) | 8-3/4 (222) | 8-7/8 (225) | 7-1/8 (181) | 10-7/8 (276) | 11 (279) | 9-1/8 (232) | 13-1/8 (333) | 13-1/4 (337) |
| 100° | 105° | 4-3/8 (111) | 8-3/8 (213) | 8-1/2 (216) | 6-5/8 (168) | 10-3/8 (264) | 10-1/2 (267) | 8-1/2 (216) | 12-1/2 (318) | 12-5/8 (346) |
| 105° | 110° | 4 (102) | 8 (203) | 8-1/8 (206) | 6-1/4 (159) | 10 (254) | 10-1/8 (257) | 8 (203) | 12 (305) | 12-1/8 (308) |
| 110° | 115° | 3-3/4 (95) | 7-3/4 (197) | 7-7/8 (200) | 6 (152) | 9-3/4 (248) | 9-7/8 (251) | 7-5/8 (194) | 11-5/8 (295) | 11-3/4 (298) |

## A Templates

**Mark Door** and **Jamb** (for arm bracket).

(for QUIK-INSTALL® bracket)

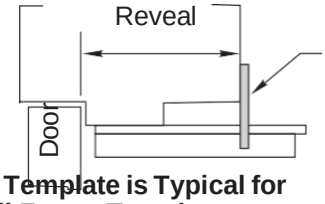
**3 Options of Frame Templates:**

- **Standard Application, This Page ( 2 )**
- **Deep Reveal, Page 3**
- **Flush Partition, Page 3**

### A1 FRAME TEMPLATE 1A

(Standard Application with 615F58 Bracket)

**Frame Reveals 1-7/8" to 4-5/8" (48mm to 117mm)**

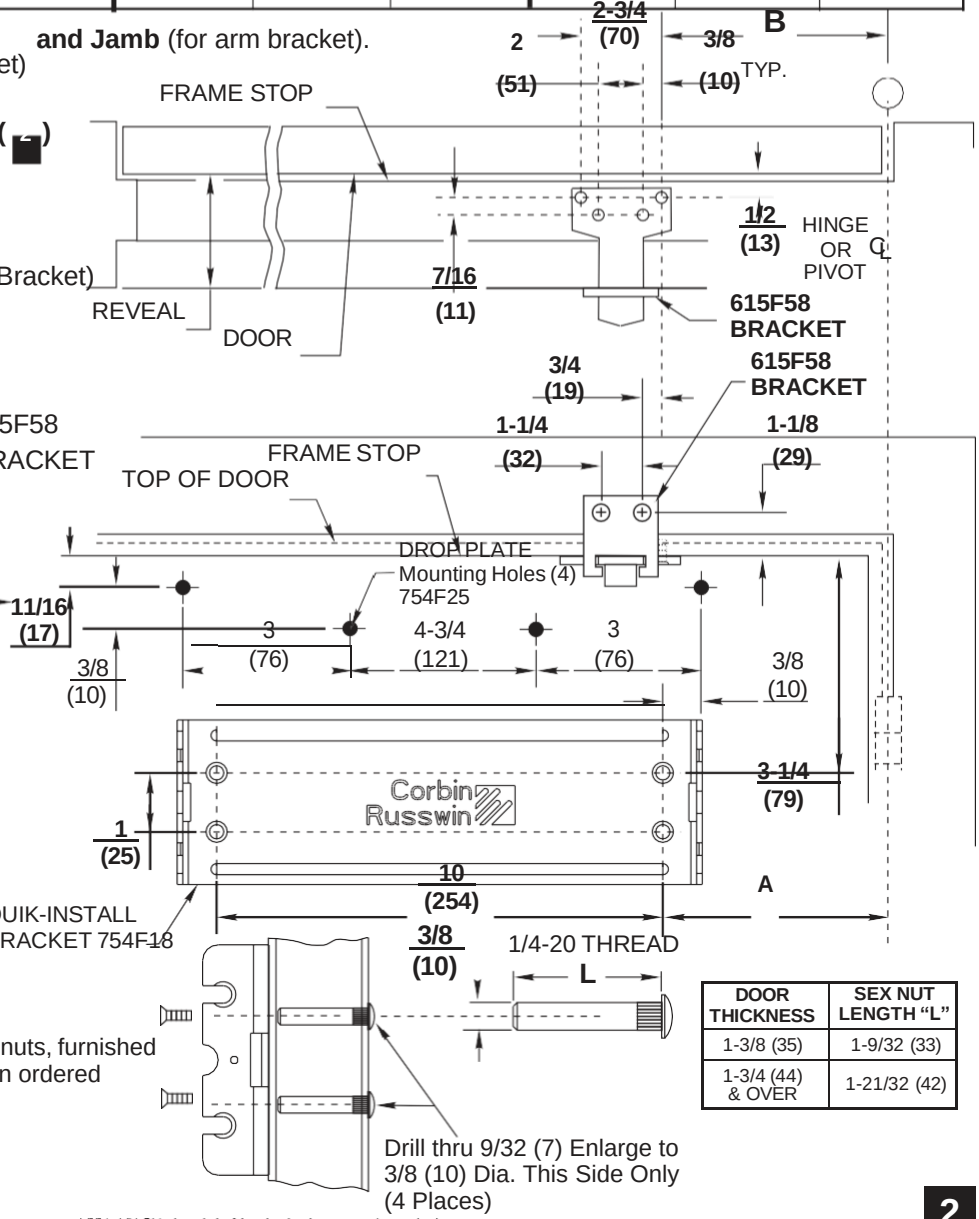



**Door Template is Typical for all Frame Templates , , and**

**NOTES:**

Check hand of door, see page .

- Right Hand Application Shown
- Left Hand Opposite
- Dimensions given in inches (mm).
- Do Not Scale Drawing.
- Closer must be installed in a true horizontal plane to ensure proper closer performance.




| DOOR THICKNESS | SEX NUT LENGTH "L" |
|---|---|
| 1-3/8 (35) | 1-9/32 (33) |
| 1-3/4 (44) & OVER | 1-21/32 (42) |

**MOUNTING SCREW SPECIFICATIONS**

ARM AND *QUIK-INSTALL* BRACKET

#12-14 self-drilling screw. 1/8 (3) diameter pilot hole required for Wood Applications. } or { Sex nuts, furnished when ordered

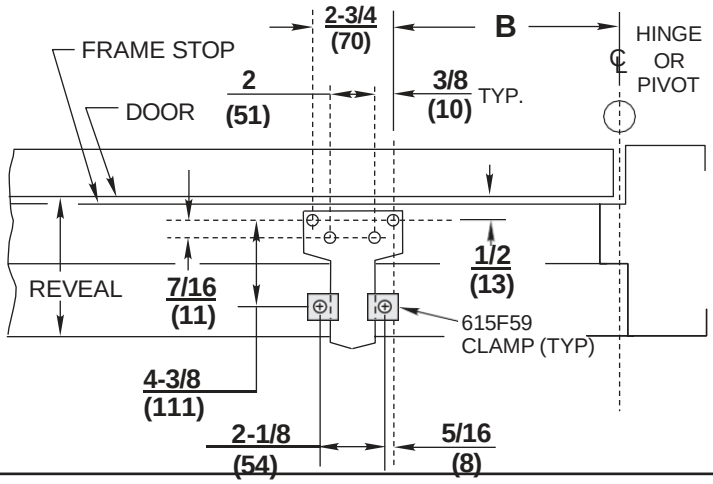
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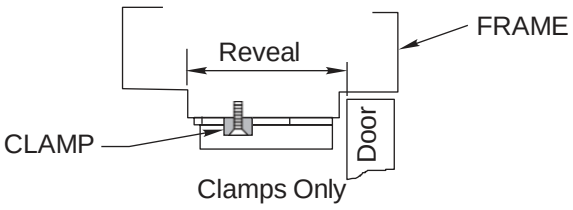
# DC8210 x A11 or A12 Parallel Arm Installation Instructions

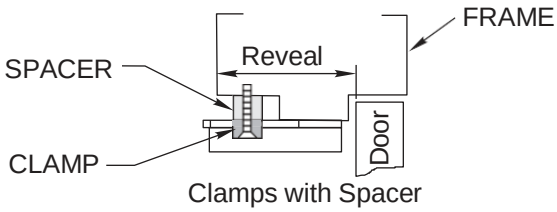
A B C D E F
This Page
Following Pages (4, 5)

## A2 DEEP REVEAL FRAME TEMPLATE APPLICATION with M103 OPTION (615F59 CLAMP KIT)

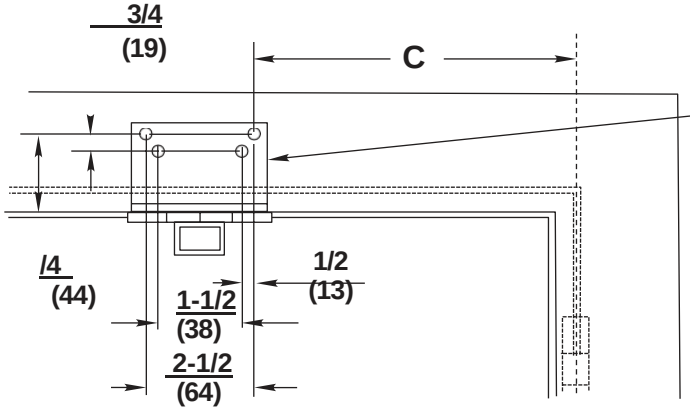



Frame Reveals Over 4-5/8" (117mm)

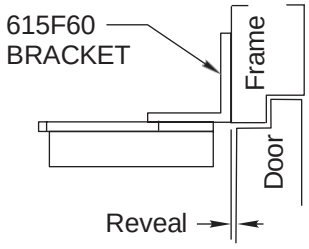


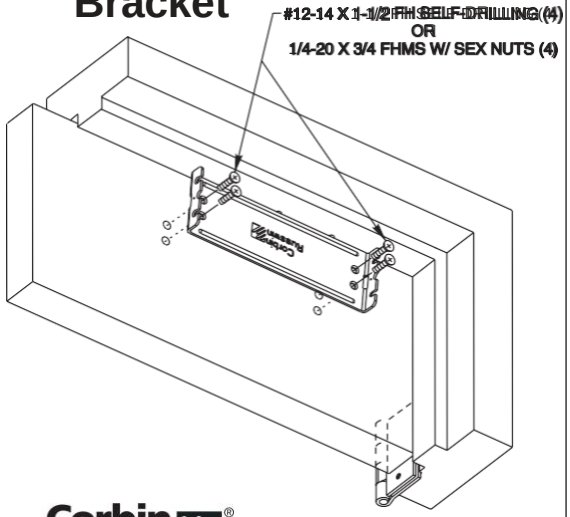

## A3 FLUSH PARTITION FRAME TEMPLATE APPLICATION with M104 OPTION (615F60 BRACKET)




Frame Reveals 0" to 1/8" (0mm to 3mm)

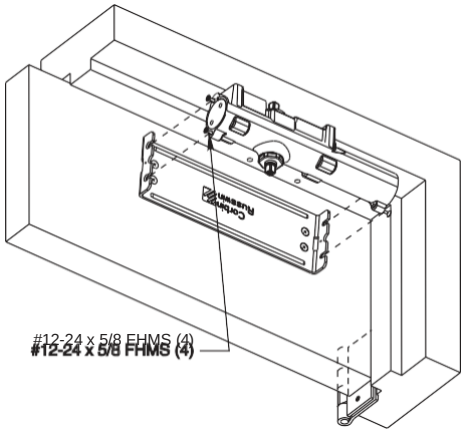



## B Mount *QUIK-INSTALL* Bracket




## C Mount Closer Body to *QUIK-INSTALL* Bracket

- Start the four mounting screws into the four closer mounting holes.
- Place the closer onto the *QUIK-INSTALL* bracket with the four mounting screws inserted into the four *QUIK-INSTALL* bracket slots.
- Tighten the four mounting screws to fasten the closer body to the *QUIK-INSTALL* bracket.

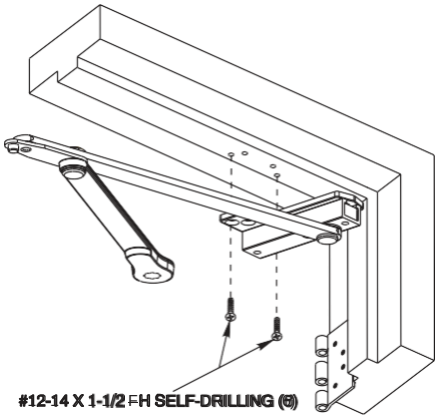



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# DC8210 x A11 or A12 Parallel Arm Installation Instructions

A B C D E F
Previous Pages (2, 3) | This Page | Next Page (5)

## D Mount Arm to Door Frame

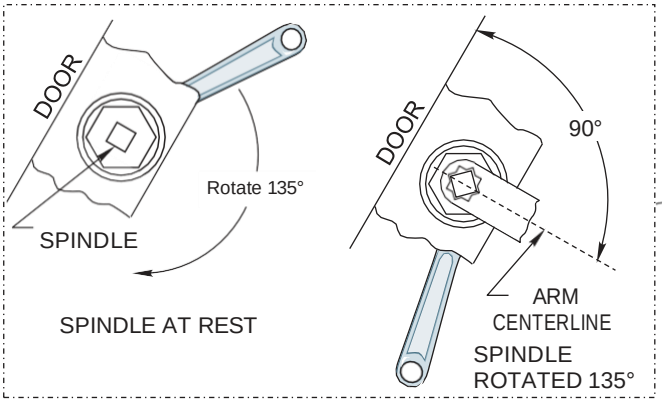


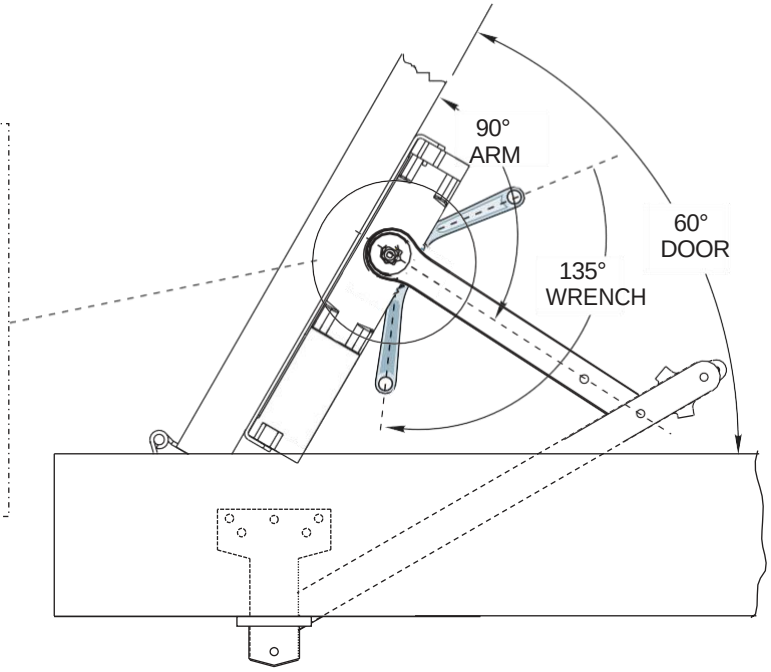

## E Connect Arm To Closer

Using 1/8" hex wrench provided, close (turn clockwise) CLOSING SPEED VALVE (see page 4 for location on closer). **DO NOT OVER TIGHTEN.**

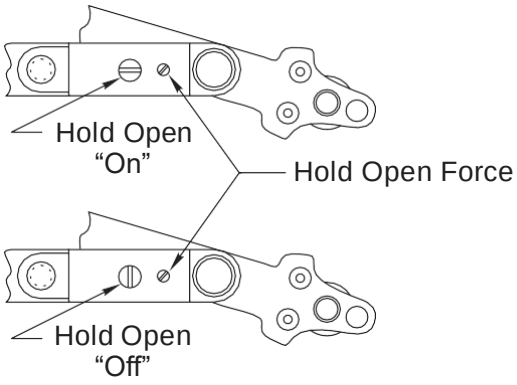
- Open door to approximately 60°
- Using wrench on underside of spindle, rotate spindle approximately 135° toward hinge edge of door.
- Install arm on spindle at an approximate 90° angle to door.
- Reopen CLOSING SPEED VALVE.
- Install and tighten 5/16 Hex Head Arm Washer and Screw assembly.

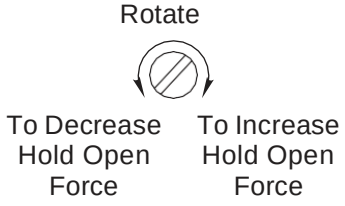
**ALL ANGLES SHOWN ARE APPROXIMATE**




## HOLD OPEN ADJUSTMENTS - A12 ARMS ONLY




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# DC8210 x A11 or A12 Parallel Arm Installation Instructions

A B C D E — Previous Pages (2 3 4)
F — This Page

## F Adjust Closer

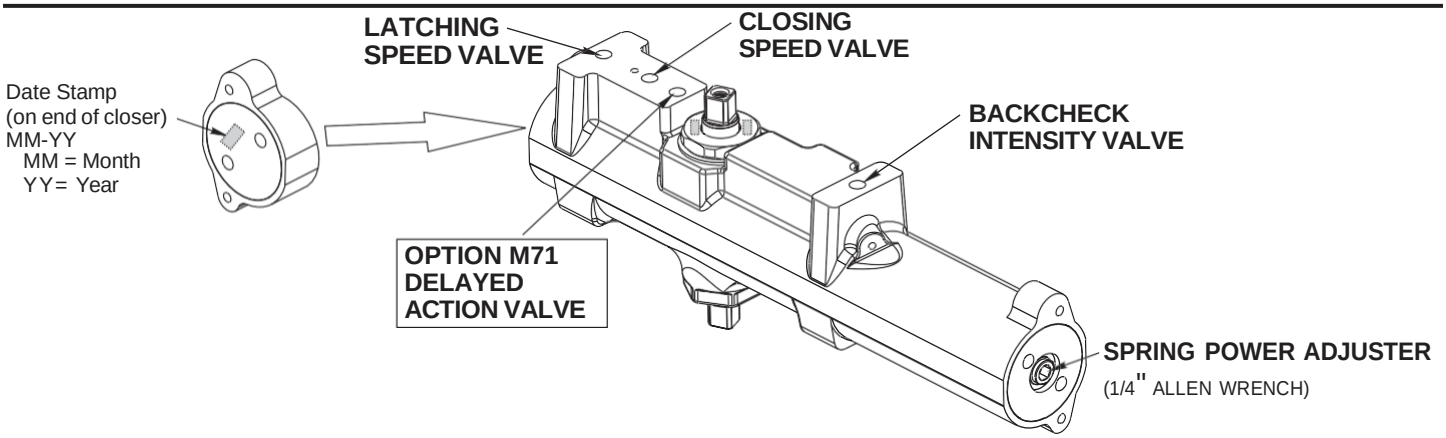
### Spring Power Adjustment

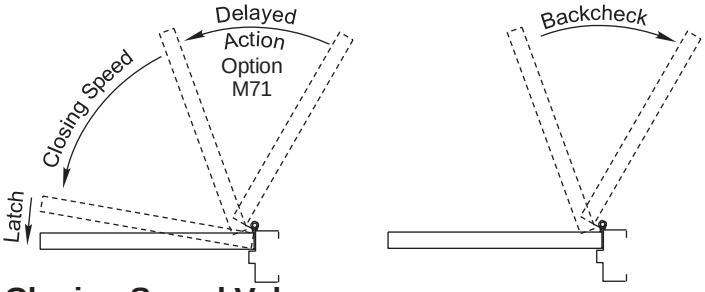
Locate spring power adjuster from Illustration below
DC8200 Size1 thru 6 Adjustment See Chart

**DC8200 SPRING POWER ADJUSTMENT CHART**

- All DC8200 closers are factory set at an approximate **Size 3.**
- Adjust closer as necessary for door size using this chart.
- Readjustment may be required to suit prevailing conditions.

| Size of Door | | | Spring Power Adjustment No. Full Turns Clockwise | Equivalent Closer Size (Approx.) |
|---|---|---|---|---|
| Interior | Exterior In Swing | Exterior Out Swing | | |
| 2' 4" (712) | 2'6" (764) | —— | 2-7 | 3 |
| 2' 6" (764) | 3'0" (915) | —— | 7-11 | 4 |
| 3' 0" (915) | 3'6" (1067) | 2'6" (764) | 11-15 | 5 |
| 3' 6" (1067) | 4'0" (1219) | 3'0" (915) | 15-17 | 6 |




### Closing Speed Valve (1/8 Allen Wrench Provided)

To adjust speed of door closing from fully open to a position 2" to 5" from closed, turn Closing Speed Valve CLOCKWISE to SLOW closing, COUNTER-CLOCKWISE to SPEED closing.

### Latching Speed Valve (1/8 Allen Wrench Provided)

After closing speed has been obtained, turn latching speed valve CLOCKWISE to SLOW latching or COUNTER-CLOCKWISE to SPEED latching for last 2" to 5" of door travel.

NOTE: Set combination of CLOSING and LATCHING speeds to between3 and 7 seconds Use of door by handicapped, elderly or small children may require even greater closing time.

### Delayed Action Valve (1/8 Allen Wrench Provided)

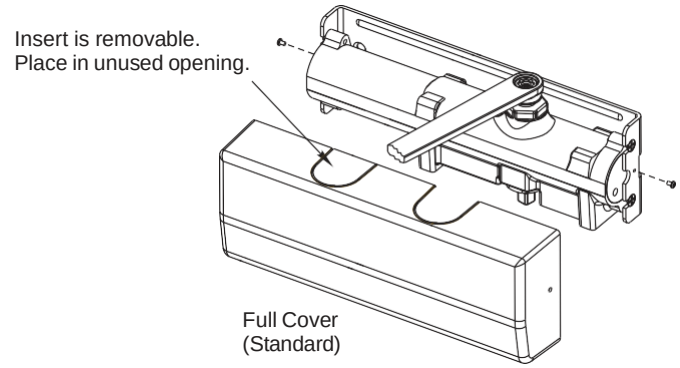
Turn valve CLOCKWISE to SLOW closing, COUNTER-CLOCKWISE to SPEED closing. Delayed action may be adjusted from 20 seconds to 90 seconds, depending on degree of door swing. Delay occurs at the beginning of the door closing cycle from fully open down to 70°, where the closing speed valve then begins its control.

### Backcheck Intensity Valve

Turn valve COUNTER-CLOCKWISE to reduce backcheck or CLOCKWISE to increase backcheck. (Backcheck should be set to give a soft cushioning action, nota sudden stop.)

### Installing Cover

- Slip cover over closer.
- Hold tightly against QUIK-INSTALL® Bracket surface.
- Secure on each side with 6-32 x 1/4" PBHMS screws.




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