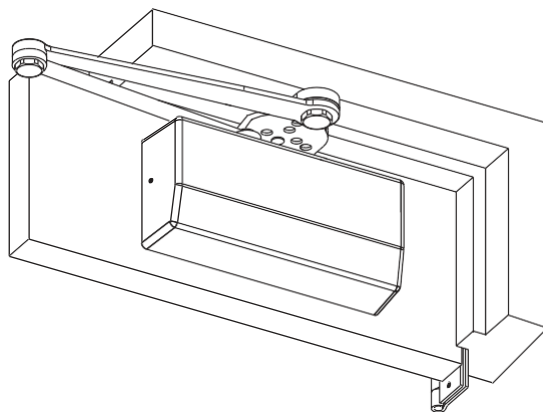


# Installation Instructions

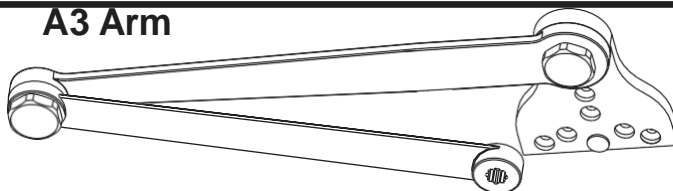
As Easy As **A**—**B**—**C**→**F**



**DC8210 Series**  
Multi-Sized 1 thru 6

**Universal Door Closers  
with A3 Heavy Duty  
Non-Hold Open Parallel Arm**

**A3 Arm**



Heavy Duty Non-Hold Open

## 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.
- An auxiliary door stop, BY OTHERS, is required for this Installation.

## BEFORE INSTALLING:

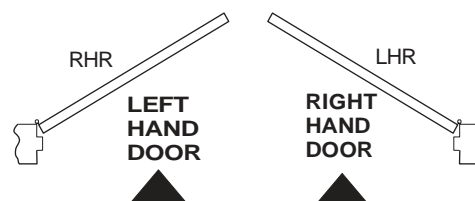


- The Americans with Disabilities Act (ADA) requires that doors having door closers have an opening force not to exceed 5 lbf.
- The door closer's power size adjustment feature may require adjustment to its lowest setting to comply with ADA opening force guidelines.
- ADA compliant closer: DC8210.

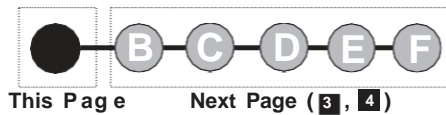
Size of Door & Door Closer					
Type of Installation	Interior	Exterior In-swinging	Exterior Out-swinging	Recommended Closer Size	**Max. Opening Force lbs/f
Parallel Arm	2'4"	_____	_____	1	8
	2'6"	_____	_____	2	14
	3'0"	_____	2'6"	3	16
	3'6"	_____	3'0"	4	22
	4'0"	_____	3'6"	5	24
	4'6"	_____	4'0"	6	26

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

## TO DETERMINE HAND OF YOUR DOOR:

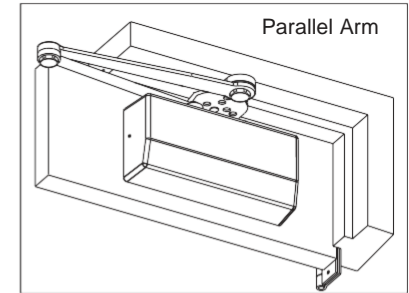
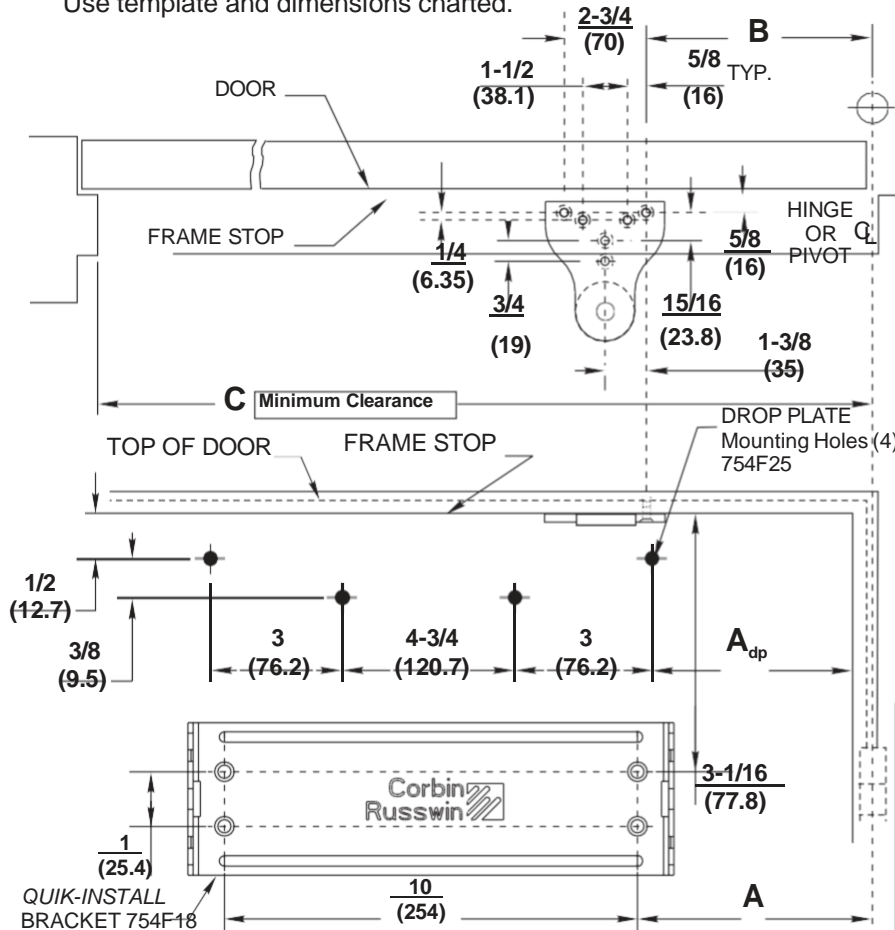


# DC8210 x A3 HD Parallel Arm Installation Instructions



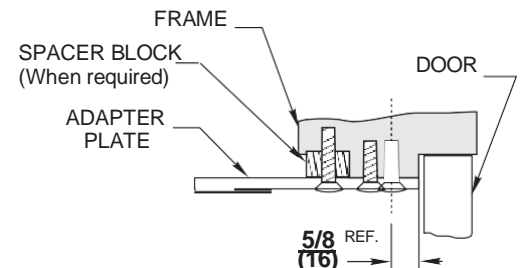
## A Template

**Mark Door and Jamb** (for QUIK-INSTALL<sup>®</sup> bracket and arm bracket)  
Use template and dimensions charted.

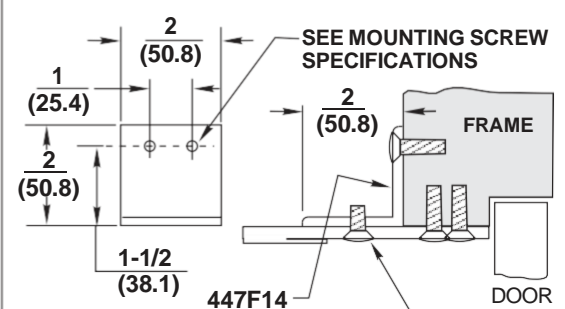


### NOTES:

- Check hand of door, see page 1.
- 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.



### M85 OPTION 447F14 ANGLE SUPPORT BRACKET



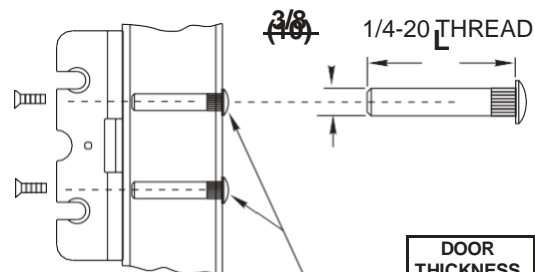
NOTE: ANGLE SUPPORT MUST BE DRILLED AND TAPPED IN THE FIELD

MAXIMUM OPENING	A Quick Install Bracket	A <sub>dp</sub> Drop Plate	B Soffit Bracket	C Clearance	Application
90°	7-7/8 (200)	7-1/2 (191)	11-5/8 (295)	27-3/4 (705)	NON A.D.A.
180°	3-7/8 (98)	3-1/2 (89)	7-5/8 (194)	23-5/8 (600)	

### MOUNTING SCREW SPECIFICATIONS

#12-14 self-drilling screw.  
1/8 (3) diameter pilot hole  
required for Wood  
Applications.

or Sex nuts, furnished  
when ordered



Drill thru 9/32 (7) Enlarge to 3/8 (10) Dia. This Side Only (4 Places)

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

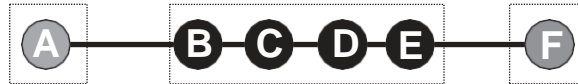
**Corbin Russwin**

**ASSA ABLOY**

80-9380-8002-152 Rev. 07/09

ASSA ABLOY: the global leader in door opening solutions

# DC8210 x A3 HD Parallel Arm Installation Instructions

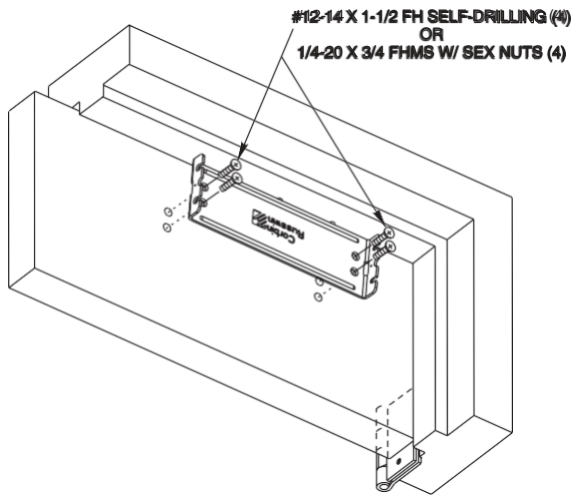


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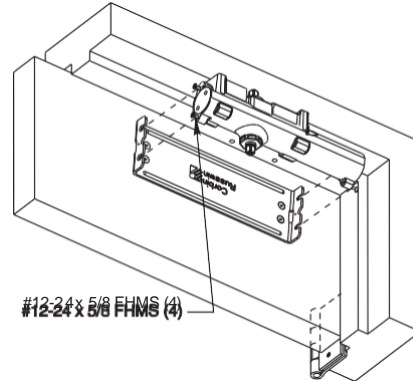
Next Page (4)

## B Mount QUIK-INSTALL® Bracket

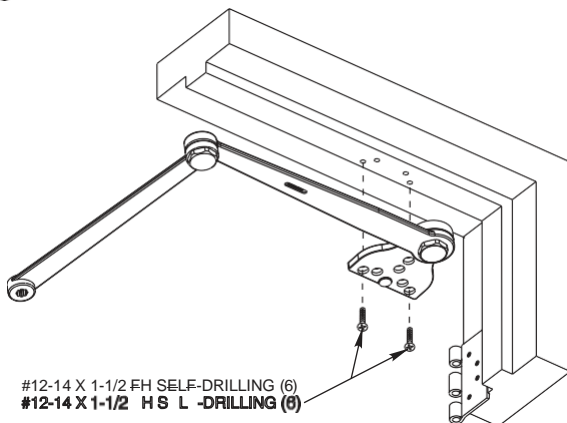


## C Mount Closer Body to QUIK-INSTALL Bracket

- 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.



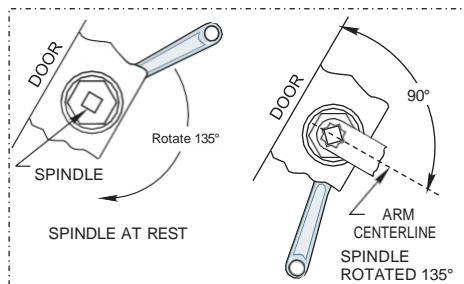
## D Mount Arm to Door Frame



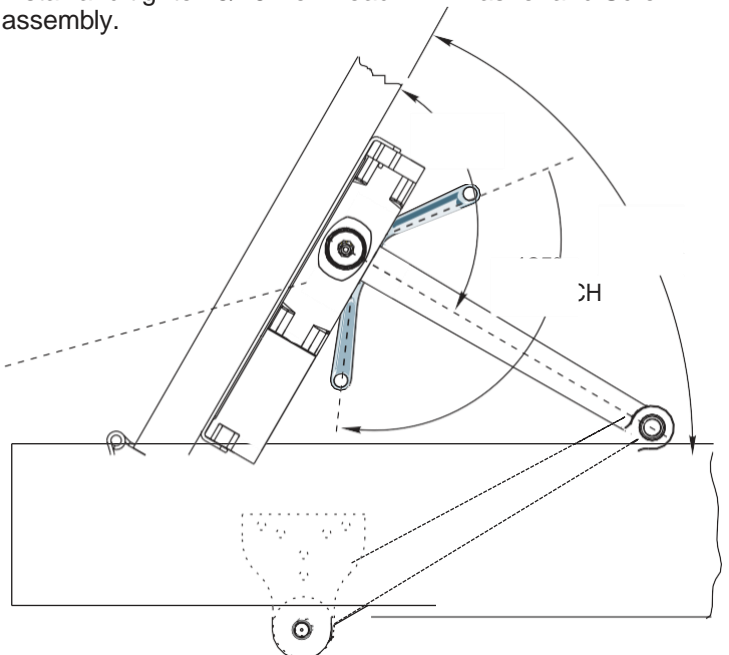
## E Connect Arm To Closer

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.

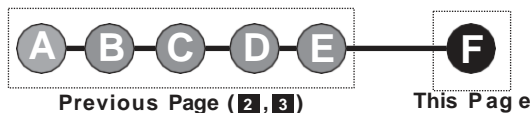


ALL ANGLES SHOWN ARE APPROXIMATE



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# DC8210 x A3 HD Parallel Arm Installation Instructions



## F ADJUST CLOSER

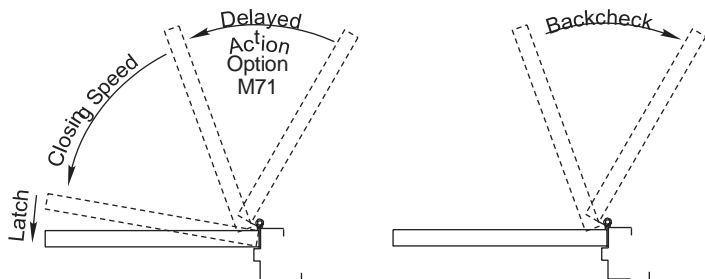
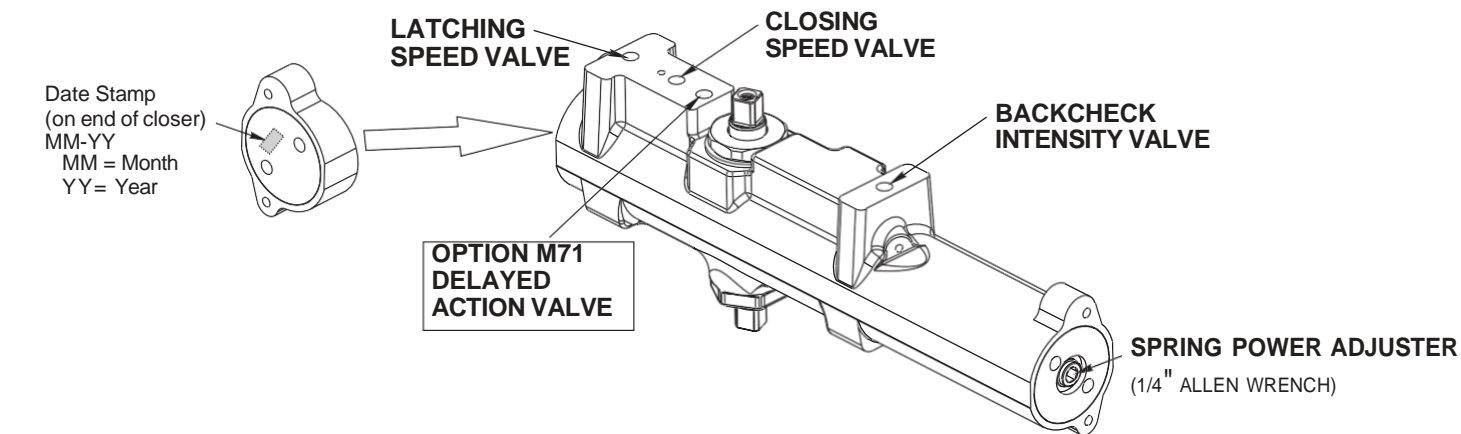
### Spring Power Adjustment

Locate spring power adjuster from Illustration below  
DC8200 Size 1 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 between 3 and 7 seconds. Use of door by handicapped, elderly or small children may require even greater closing time.

#### 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, not a sudden stop.)

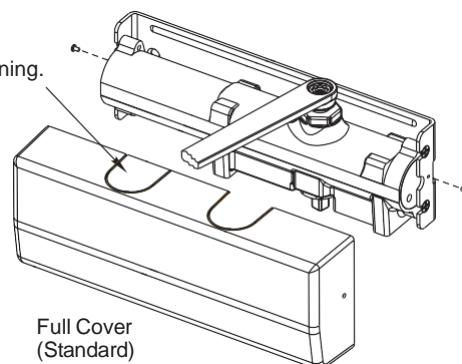
#### Delayed Action Valve (1/8 Allen Wrench Provided)

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.

#### 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.

Insert is removable.  
Place in unused opening.



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