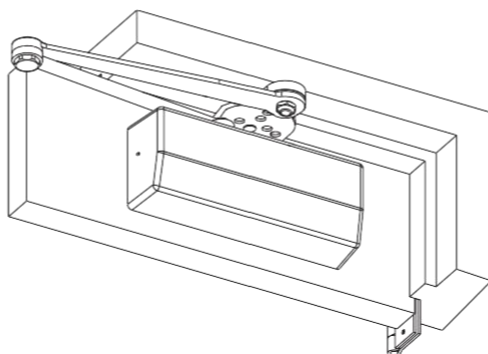


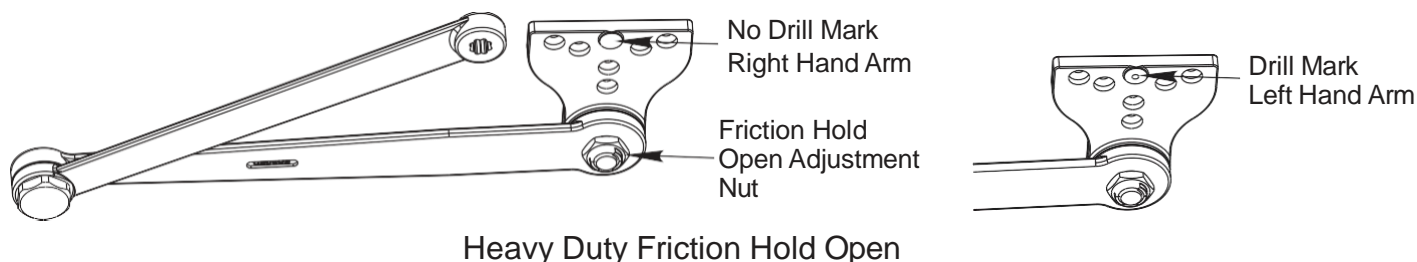
Installation Instructions

As Easy As **A**—**B**—**C**→**G**

DC8210 Series Multi-Sized 1 thru 6



**Universal Door Closer
with A14 Heavy Duty
Friction Hold Open
Parallel Arm**



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
- Arm is handed and must match hand of door.

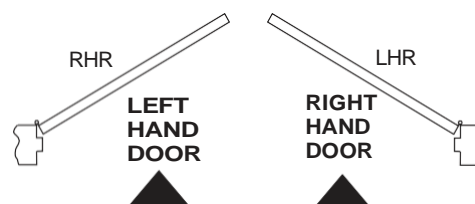
BEFORE INSTALLING:



- 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 closers are: DC8210.

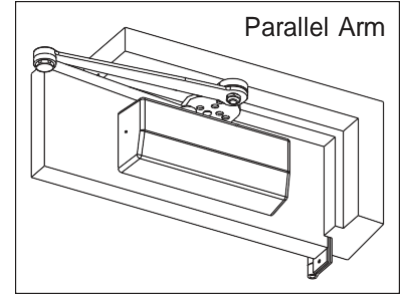
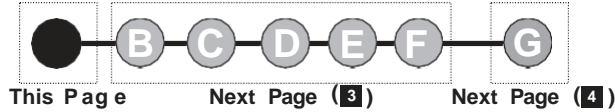
| Size of Door & Door Closer | | | | | |
|----------------------------|----------|----------------------|-----------------------|-------------------------|----------------------------|
| Type of Installation | Interior | Exterior In-swinging | Exterior Out-swinging | Recommended Closer Size | **Max. 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 |

TO DETERMINE HAND OF YOUR DOOR:



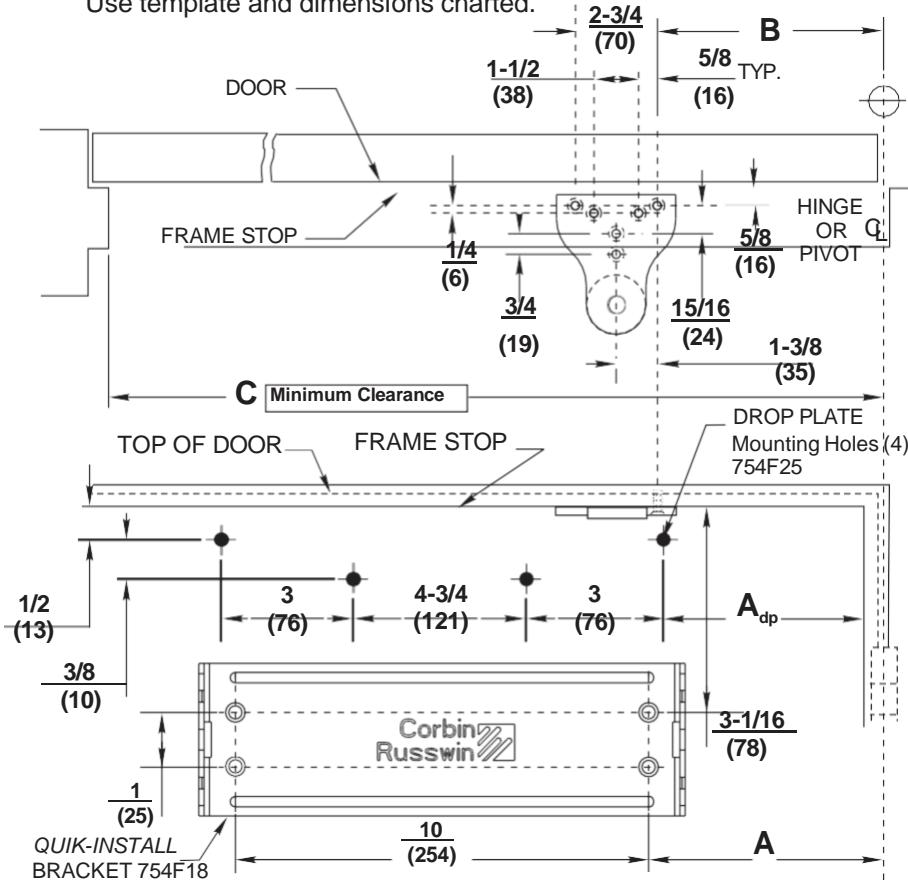
****NOTE:** These forces are for standard templating with bearing type hinges and do not account for pressure differentials and draft.

DC8200xA14 Heavy Duty Friction Hold Open Parallel Arm Installation Instructions



A Template

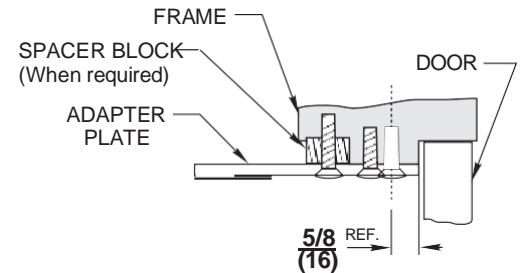
Mark Door and Jamb (for QUIK-INSTALL[®] bracket and arm bracket)
Use template and dimensions charted.



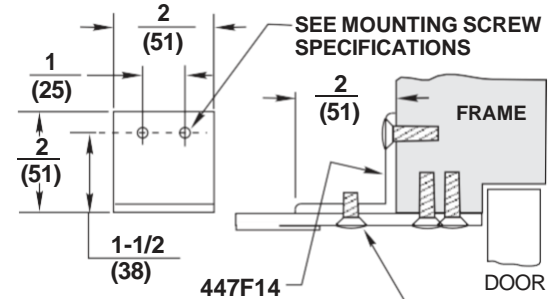
| MAXIMUM OPENING | A (Quick Install Bracket) | A _{dp} (Drop Plate) | B (Soffit Bracket) | C (Clearance) | Application |
|-----------------|------------------------------|---------------------------------|-----------------------|------------------|-------------|
| 90° | 7-1/4 (184) | 2-3/4 (70) | 11 (279) | 27 (686) | NON A.D.A. |
| 180° | 3-1/4 (83) | 6-3/4 (171) | 7 (178) | 23 (584) | |

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.
- Friction Hold Open arms are handed and not reversible. See handing marks on soffit plate.



M85 OPTION 447F14 ANGLE SUPPORT BRACKET

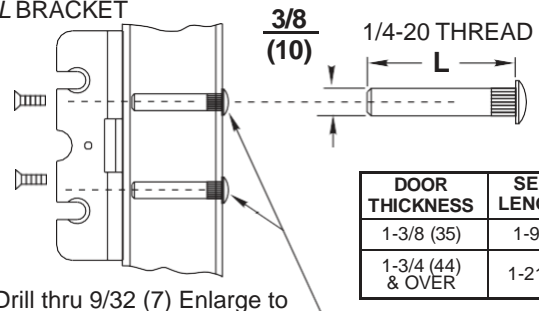


NOTE: ANGLE SUPPORT MUST BE DRILLED AND TAPPED IN THE FIELD

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



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

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



DC8200xA14 Heavy Duty Friction Hold Open Parallel Arm Installation Instructions

A

Previous Page **(2)**

B

C

D

E

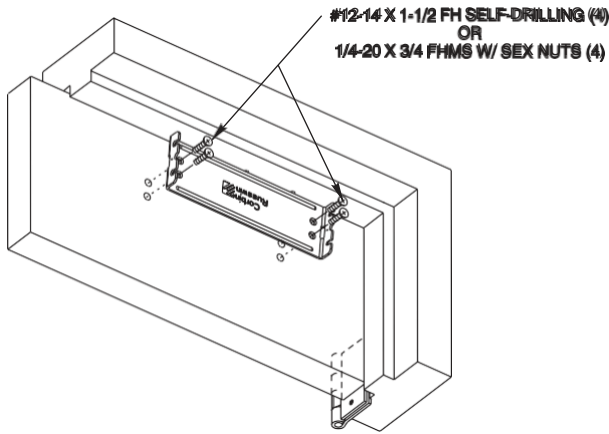
F

G

This Page

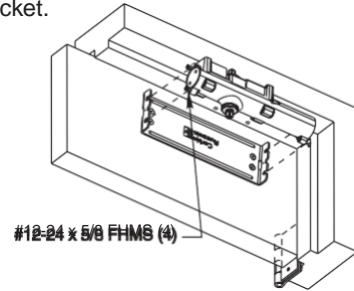
Next Page **(4)**

B Mount QUIK-INSTALL® Bracket

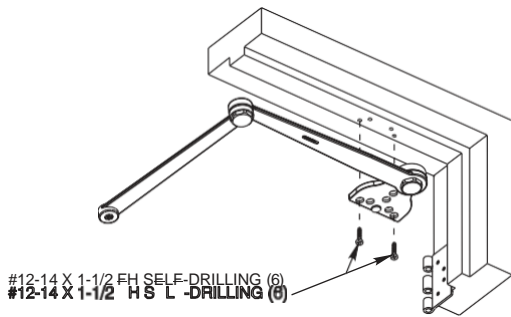


C Mount Closer Body to QUIK-INSTALL Bracket

- 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.



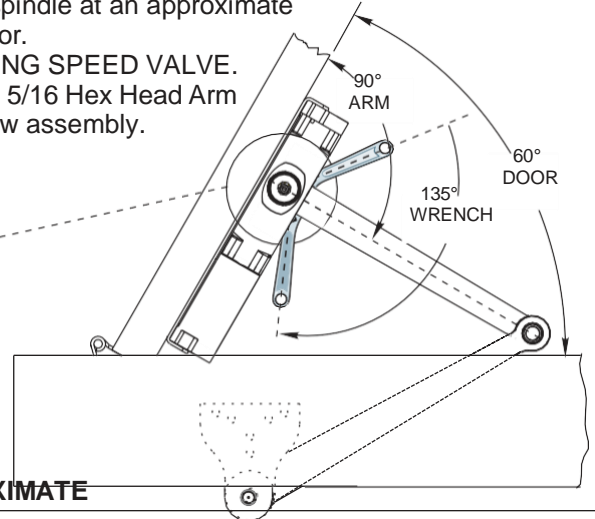
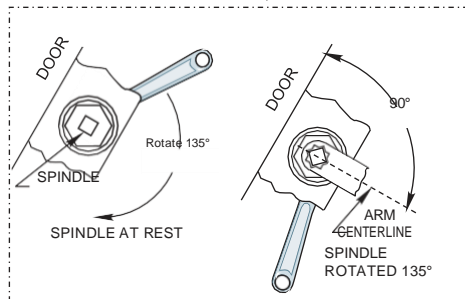
D Mount Arm to Door Frame



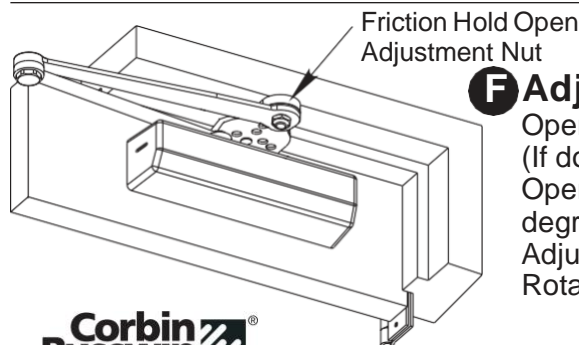
E Connect Arm To Closer

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



ALL ANGLES SHOWN ARE APPROXIMATE



F Adjust Hold Open Position

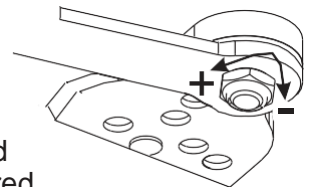
Open the door to desired degree of hold open. (If door does not open far enough, loosen Hold Open Adjustment Nut.) Place door at the desired degree for hold open and tighten the Hold Open Adjustment Nut.

Rotation: Counter-clockwise will increase (+) angle.

Clockwise will decrease (-) angle.

Pushing door beyond the set hold open point

- may cause damage to product.



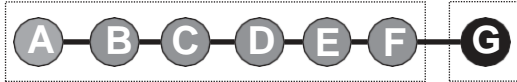
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DC8200xA14 Heavy Duty Friction Hold Open Parallel Arm Installation Instructions



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G Adjust Closer

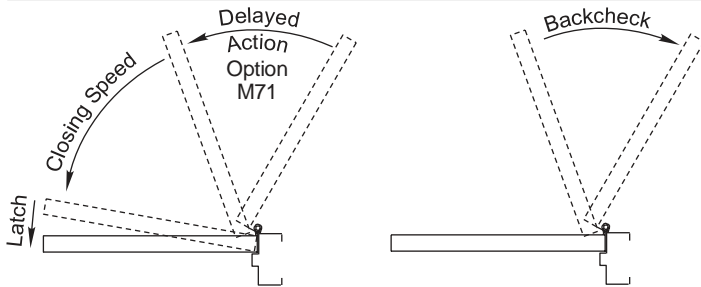
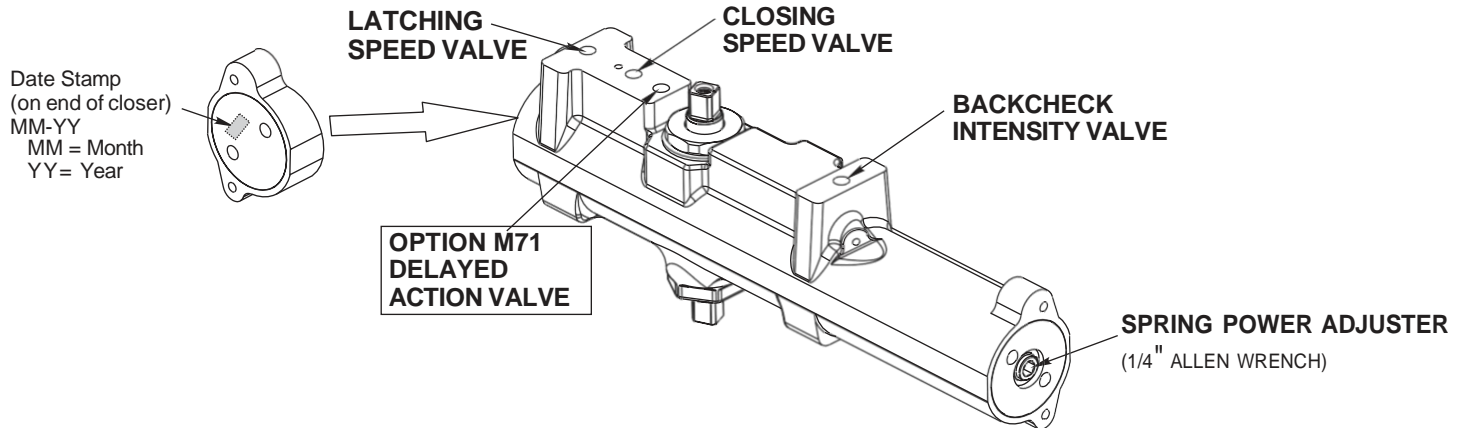
Spring Power Adjustment

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 |



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, not a sudden stop.)

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.

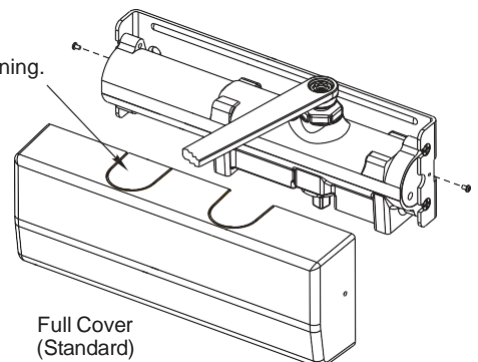
Delayed Action Valve (1/8 Allen Wrench Provided)

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

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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