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ASSA ABLOY

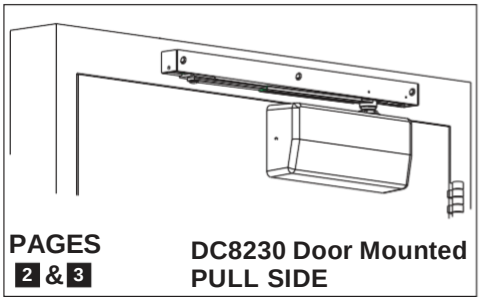
Installation Instructions

As Easy As A–B–C→J

Universal Door Closers
Slide Track Application
(100° Maximum Door Swing)
A1 - H.O. Bumper Stop

Hinge (Pull) Side Door Application

DC8230 Series
Multi-Sized 1 thru 6

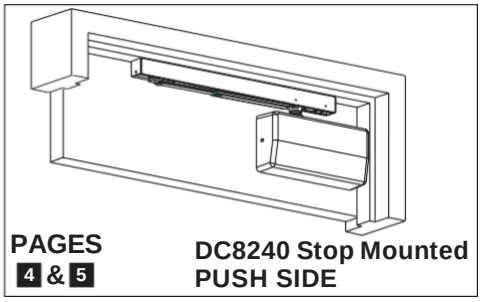


PAGES 2 & 3

DC8230 Door Mounted PULL SIDE

Hinge (Push) Side Door Application

DC8240 Series
Half-Size 1 thru 6



PAGES 4 & 5

DC8240 Stop Mounted PUSH SIDE

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 with the “A1” HOLD OPEN TRACK option are not permitted to be installed in fire door assemblies.

BEFORE INSTALLING:

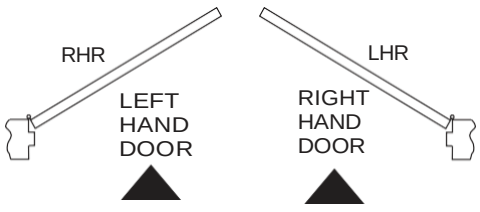


- The Americans with Disabilities Act (ADA) requires that doors having door closers have an opening force not to exceed 5 lbf.
- The door closer's power size adjustment feature may require adjustment to its lowest setting to comply with ADA opening force guidelines.
- ADA compliant closers are: DC8230 & DC8240.

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

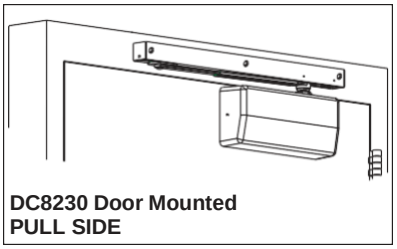


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80-9380-8006-152 **Rev. 07-09**

DC8230 Pull Side Track Installation Instructions

A B C D E F G H I J
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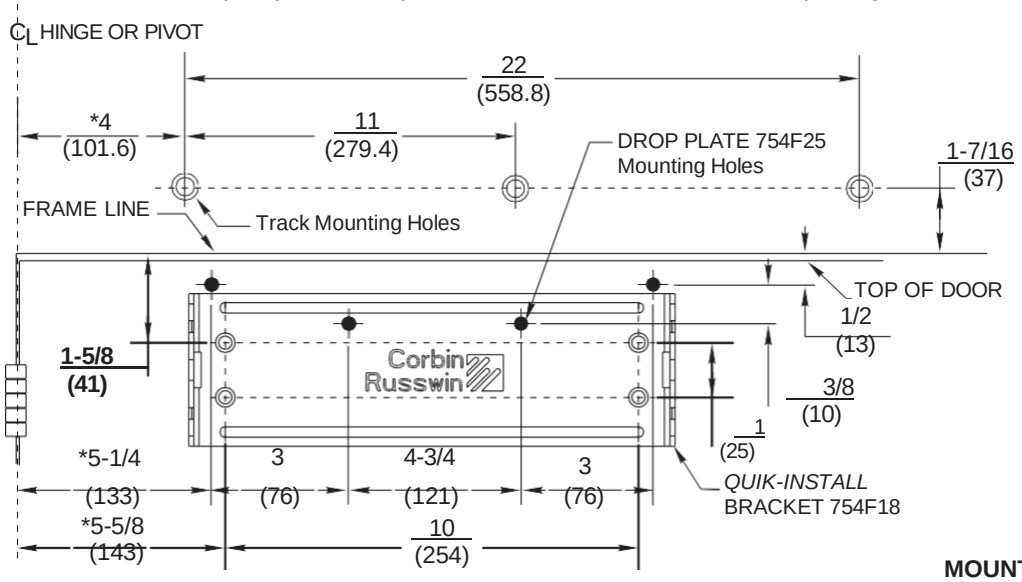


DC8230 Door Mounted PULL SIDE

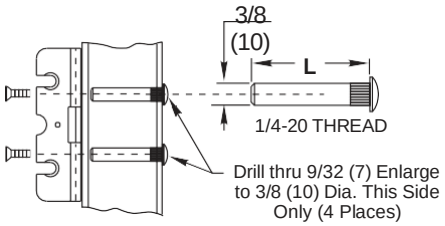
A Template

Mark Door and Jamb (for QUIK-INSTALL® bracket and track)

- Door will travel additional 5° to dead stop.
- Door hold open position adjustable from 85° to 120° of door opening.



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



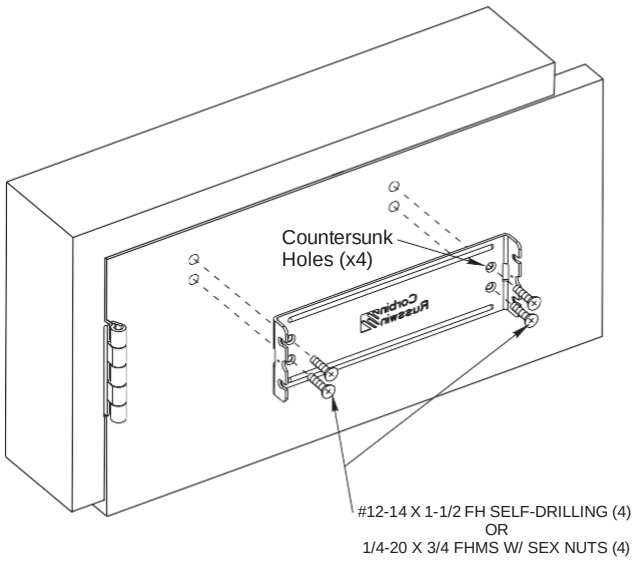
MOUNTING SCREW SPECIFICATIONS
ARM AND *QUIK-INSTALL* BRACKET

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

NOTES:

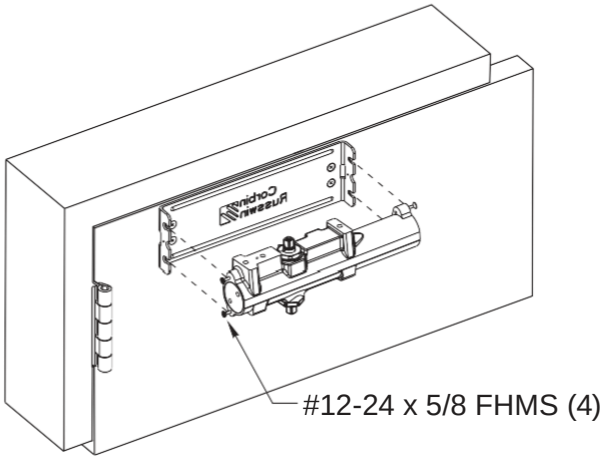
- Check hand of door, see page 1.
- Right Hand Application Shown. Left Hand Opposite.
- Dimensions given in inches (mm). Do Not Scale Drawing.
- Closer must be installed in a true horizontal plane to ensure proper closer performance.
- Minimum clearance required over door:2 (51).
- Minimum top rail: Without drop plate 3 (76), With drop plate 1-1/4 (32).

B Install Closer 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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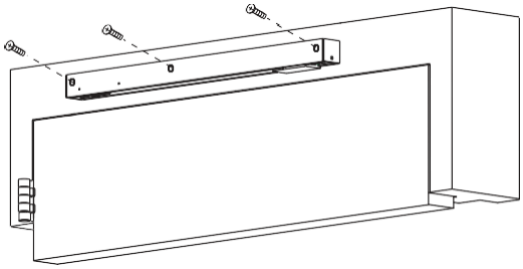
DC8230 Pull Side Track Installation Instructions

A B C | D E F G H I J

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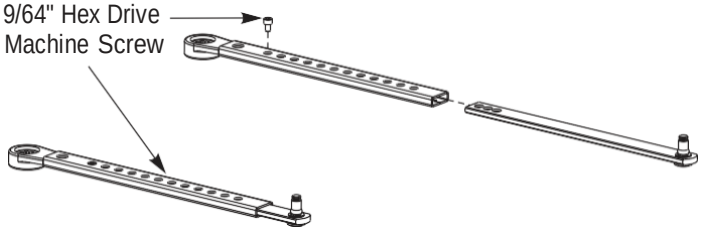
D Attach Track to Frame

Spring buffer toward hinge edge of frame with open side facing down, fasten track assembly to frame.



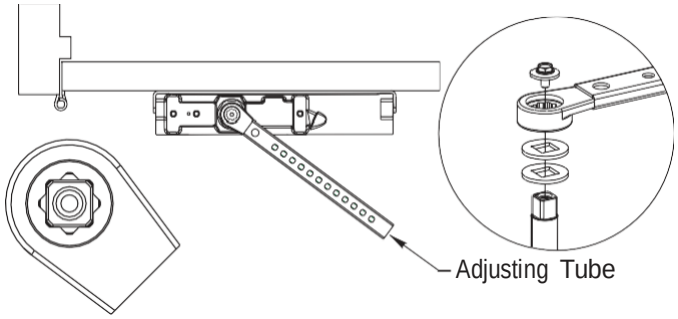
E Adjust Arm to Shortest Length

Install 9/64" hex drive socket head screw from screw pack to the arm's shortest length as shown below.



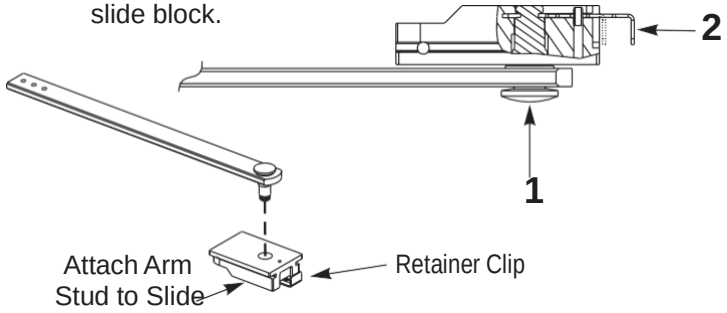
F Place Slide Arm on Pinion Shaft

Place the slide arm and two washers on the pinion shaft, indexed as shown below. Secure the arm with the arm screw and washer as indicated.



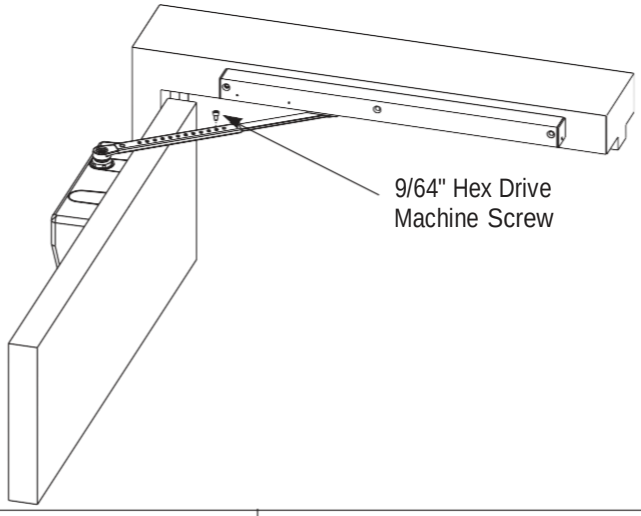
G Insert Arm Stud into Slide Block

1) Insert the arm stud into the slide block in the track assembly.
2) Secure by pushing in on the retainer clip that extends from the slide block in the track, until it is flush with the slide block.



H Adjusting Door Opening / Hold Open Angle

Open the door until the slider is against the cushioned stop or engaged in hold open (A1 Option only). Remove the 9/64" hex drive socket head screw from the arm. Open the door to the desired angle and install the hex-drive screw into the hole in the adjusting rod that is aligned with the hole in the adjusting tube.



I Adjust Closer: See Page 6.

J ENGAGE/DISENGAGE Hold Open: (A1 Option Only) See Page 6.

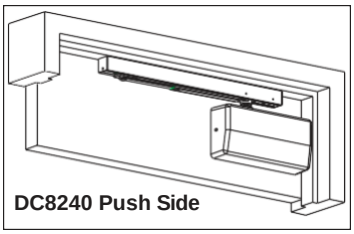
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DC8240 Push Side Track Installation Instructions

A B C D E F G H I J

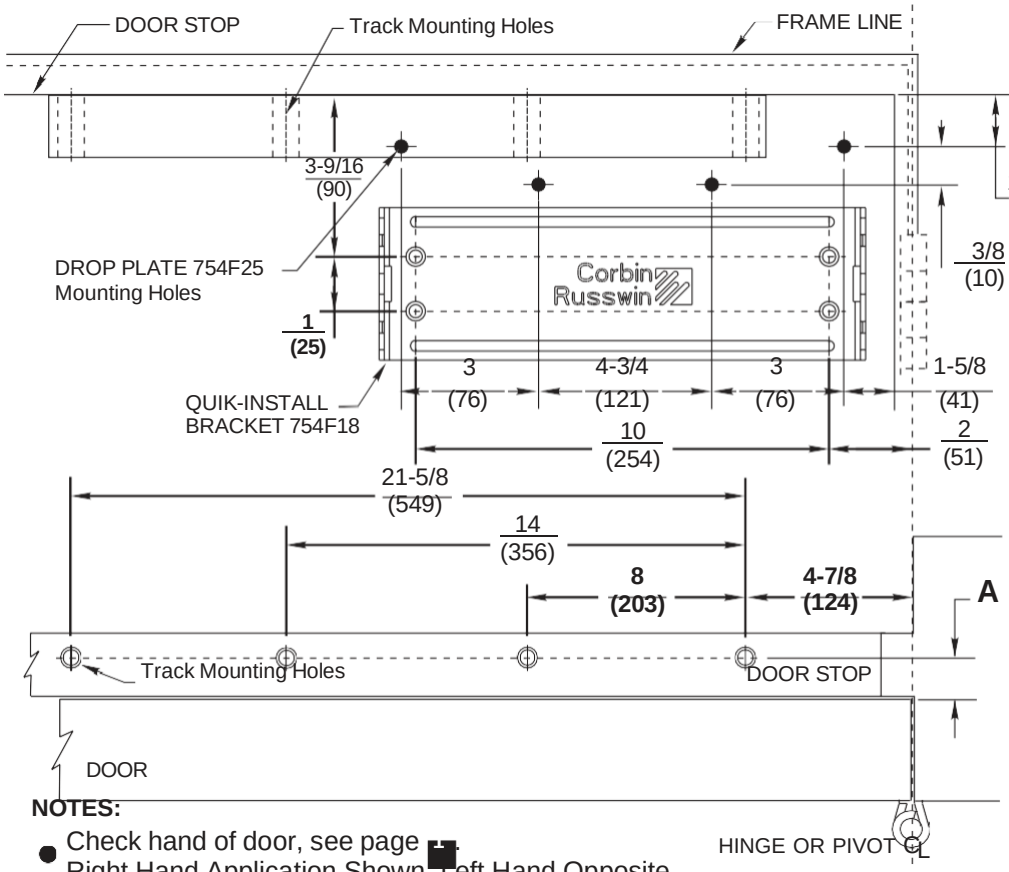
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A Template

Mark Door and Stop (for QUIK-INSTALL® bracket and track)

- Door will travel additional 5° to dead stop.
- Door hold open position adjustable from 85° to 110° of door opening.

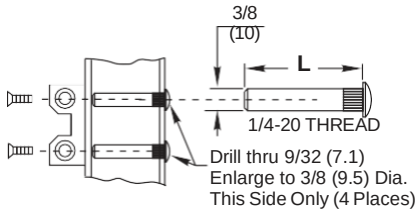


MOUNTING SCREW SPECIFICATIONS
ARM AND *QUIK-INSTALL* BRACKET

{ #12-14 self-drilling screw Type BSD. 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)

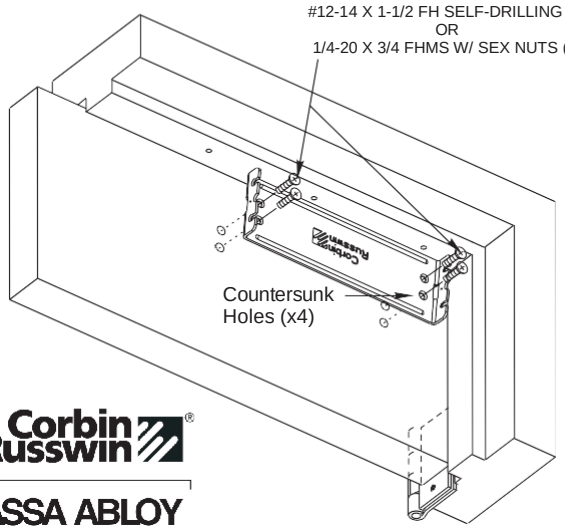
Mount the Track CENTERED on the Stop with the following minimum distances from the door side of the stop.

	A Min	Min Stop Width
With Drop Plate	**1 (25)**	**1-3/4 (45)**
Without Drop Plate	**3/4 (19)**	**1-1/2 (38)**

NOTES:

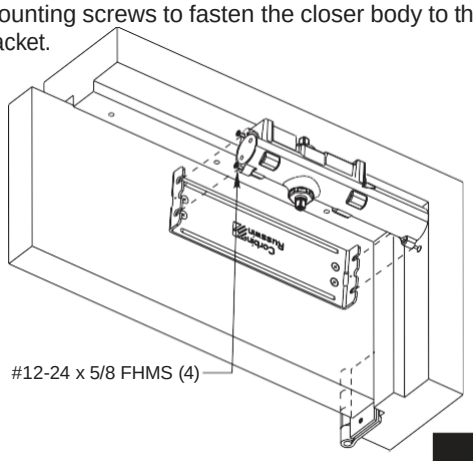
- Check hand of door, see page 5.
- Right Hand Application Shown. Left Hand Opposite.
- Dimensions given in inches (mm). Do Not Scale Drawing.
- Closer must be installed in a true horizontal plane to ensure proper closer performance.
- Minimum stop width: See DimensionA on the chart to the right.
- Minimum top rail: Without drop plate 5-1/2 (140), With drop plate 2-1/2 (64).

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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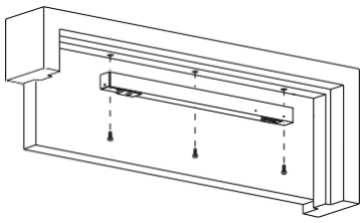
DC8240 Push Side Track Installation Instructions

A B C | D E F G H I J

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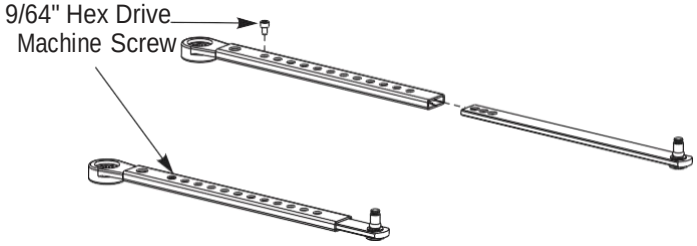
D Attach Track to Frame

With spring buffer toward hinge edge of frame and open side facing down, fasten track assembly to frame.



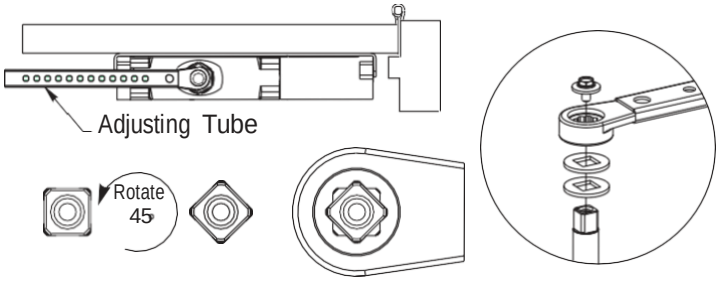
E Adjust Arm to Shortest Length

Install 9/64" hex drive socket head screw from screw pack to the arm's shortest length as shown below.



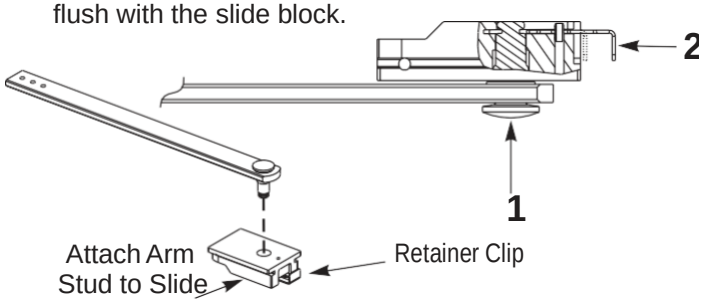
F Place Slide Arm on Pinion Shaft

Place the slide arm and two washers on the pinion shaft, indexed as shown below. Secure the arm with the arm screw and washer as indicated.



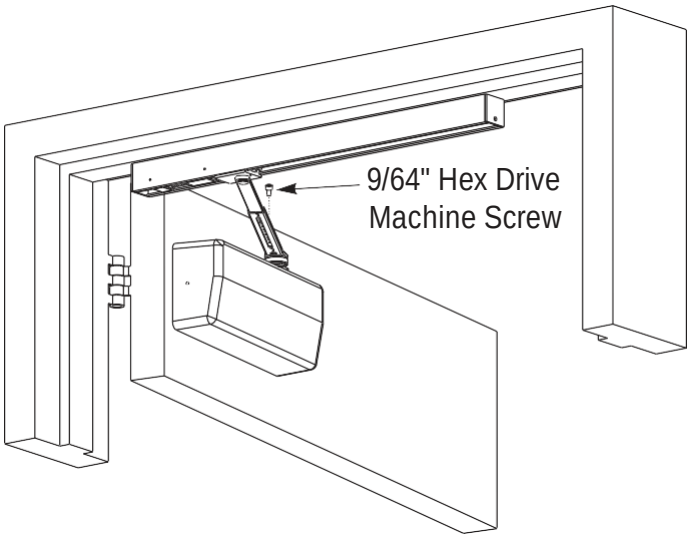
G Insert Arm Stud into Slide Block

1) Insert the arm stud into the slide block in the track assembly. 2) Secure by pushing in on the retainer clip that extends from the slide block in the track, until it is flush with the slide block.



H Adjusting Door Opening / Hold Open Angle

Open the door until the slider is against the cushioned stop or engaged in hold open (A1 Option only). Remove the 9/64" hex drive socket head screw from the arm. Open the door to the desired angle and install the hex-drive screw into the hole in the adjusting rod that is aligned with the hole in the adjusting tube.



I Adjust Closer: See Page 6.

J ENGAGE/DISENGAGE Hold Open: (A1 Option Only) See Page 6.

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DC8230 & DC8240 Track Installation Instructions

I ADJUST DOOR CLOSER

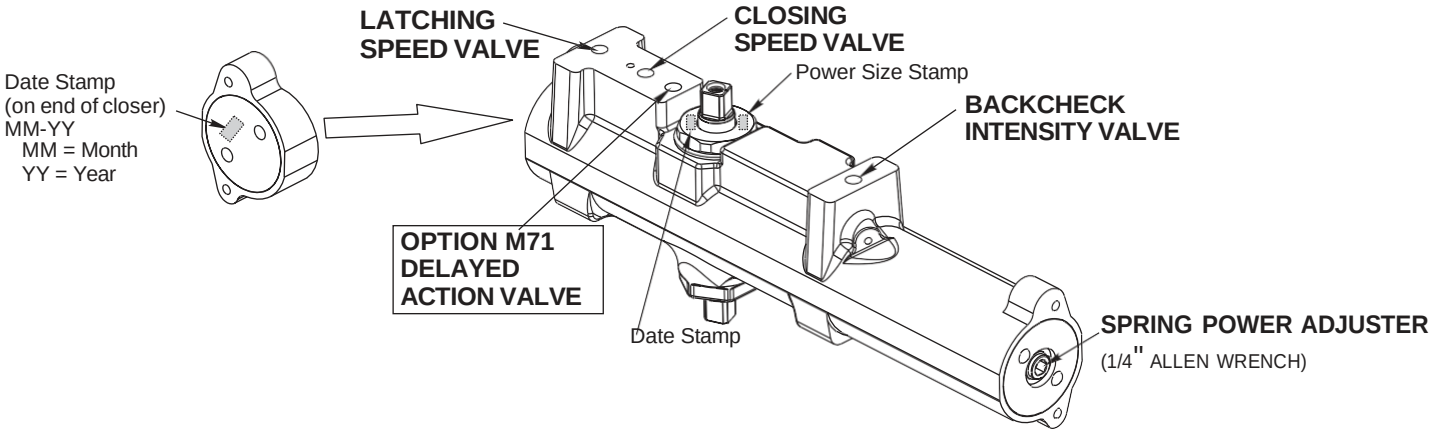
Spring Power Adjustment

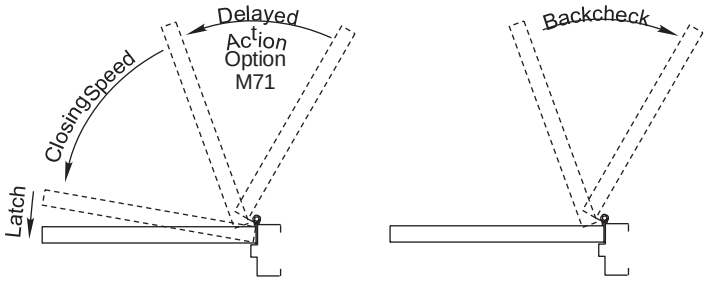
Locate spring power adjuster from Illustration below
DC8200 Size 1 thru 6 Adjustment See Chart

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.

Delayed Action Valve (1/8 Allen Wrench Provided)

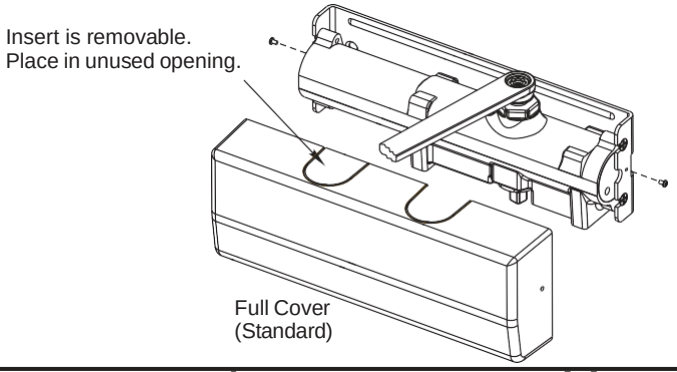
Turn valve CLOCKWISE to SLOW closing, COUNTER-CLOCKWISE to SPEED closing. Delayed action may be adjusted from 20 seconds to 90 seconds, depending on degree of door swing. Delay occurs at the beginning of the door closing cycle from fully open down to 70°, where the closing speed valve then begins its 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, not a sudden stop.)

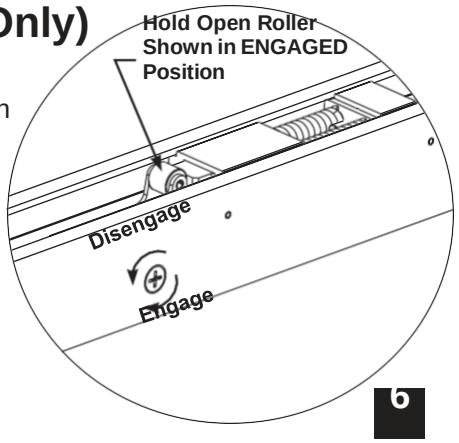
Installing Cover

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



J ENGAGE/DISENGAGE Hold Open (A1 Option Only)

Hold Open Models Only: Turn Screw 1/2 Revolution to Engage / Disengage Hold Open.



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