

ASSA ABLOY



The closing force for Series DC5000 door closers is adjustable from a size 1 to a size 6, as outlined in ANSI Standard A156.4. When these series of door closers are installed and adjusted to conform to ADA reduced opening force requirements (5 lbs max.) for interior doors, they may not have adequate closing force to reliably close and latch the door. Power adjustments charted on Pages 2 and 3 are recommended where possible, to ensure proper door control.

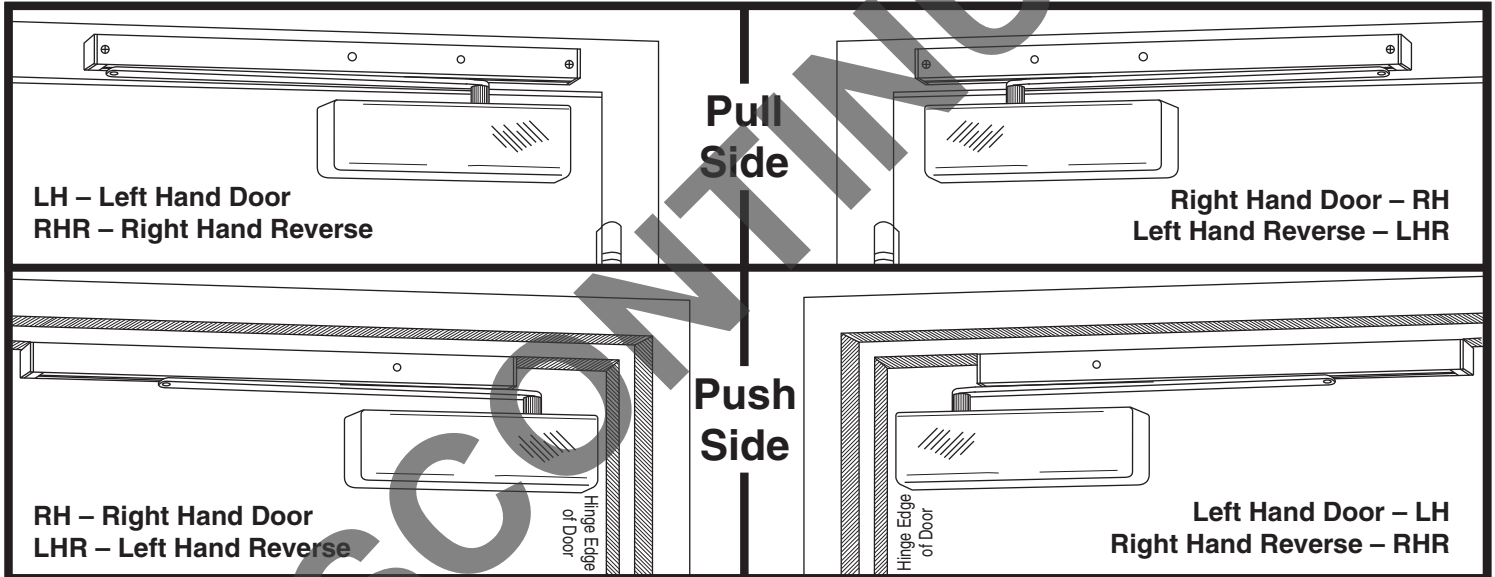
CAUTION
An incorrectly installed or improperly adjusted door closer can cause property damage or personal injury. These instructions should be followed to avoid the possibility of misapplication or misadjustment.

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.

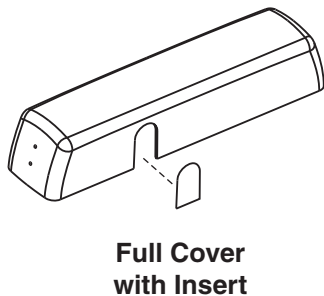
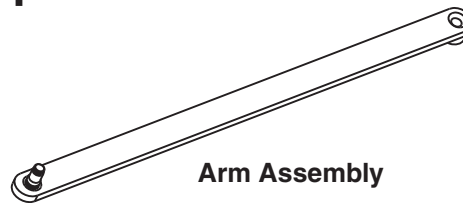
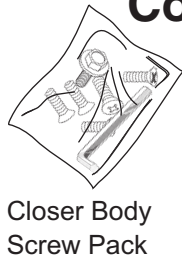
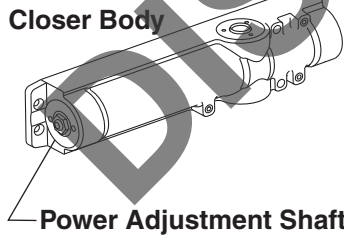
- Use of an auxiliary door stop is always recommended.

Non Hold Open Models		Hold Open Models *	
Hinge (Pull) Side	Stop (Push) Side	Hinge (Pull) Side	Stop (Push) Side
DC5230	DC5240	DC5230 x A1	DC5240 x A1

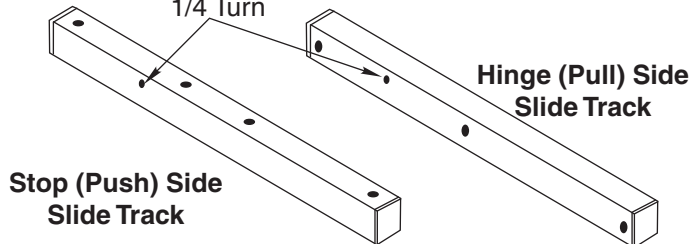
* Hold open door closers are not permitted to be installed on fire/smoke barrier doors.



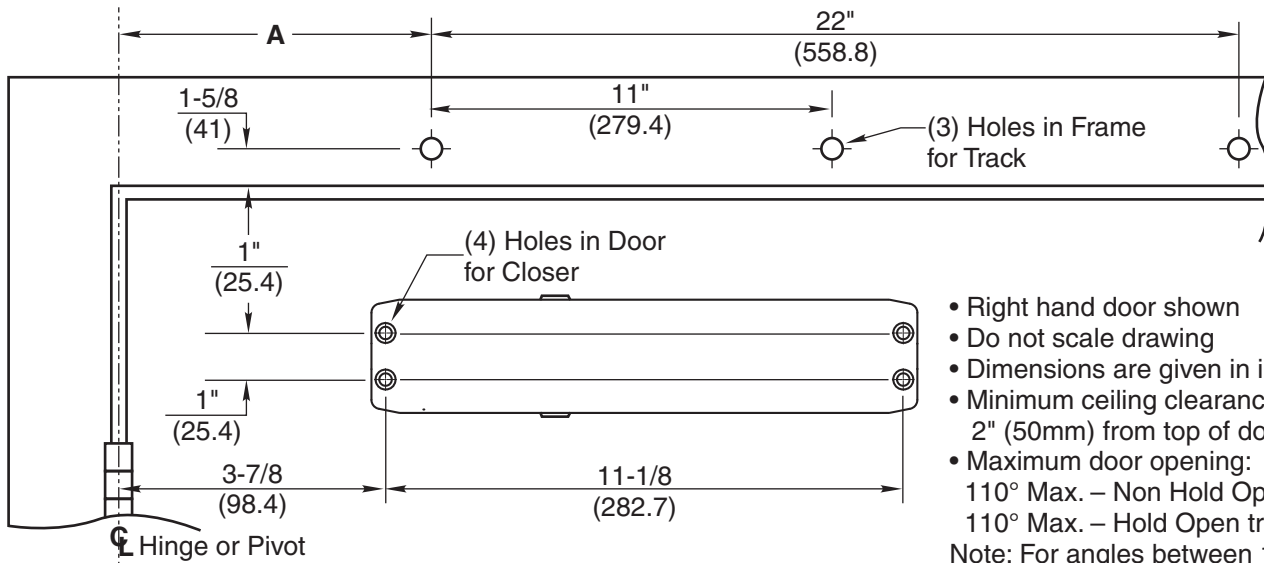
Components:



Hold Open Models Only
Screw to Engage/Disengage Hold Open
1/4 Turn



Pull Side Application



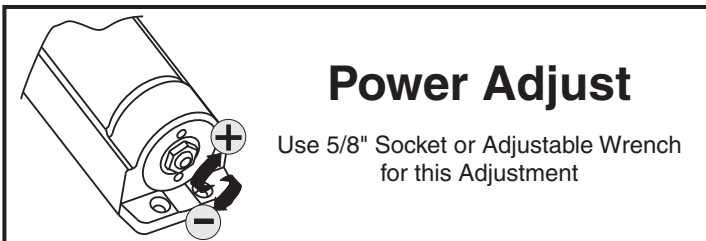
- Right hand door shown
- Do not scale drawing
- Dimensions are given in inches (mm)
- Minimum ceiling clearance for unit is 2" (50mm) from top of door
- Maximum door opening:
110° Max. – Non Hold Open
110° Max. – Hold Open track

Note: For angles between 110° and 160°
An auxiliary stop by others is required.
Contact factory for details and template.

Max Degree Of Opening	Dim. "A"	Min. Door Width
85	7-1/8 (181)	30" (762)
90	6-1/2 (165)	30" (762)
100	5-1/8 (130)	28" (711)
110	4-1/4 (108)	28" (711)

Installation Sequence:

1. Use template to locate holes on door and frame:
4 on door for closer.
3 on frame face for track assembly.
2. Prepare door and frame for fasteners using chart on this page.



Power Adjust

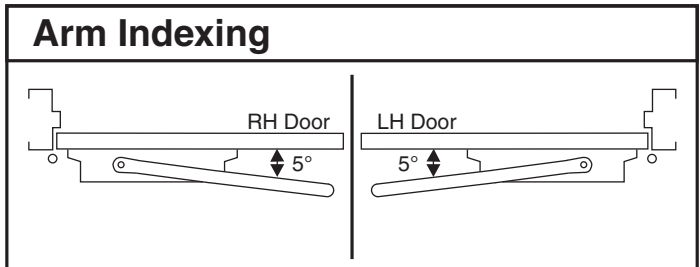
Use 5/8" Socket or Adjustable Wrench for this Adjustment

Power Adjustment Chart for DC5230, DC5230 x A1 ONLY

Number of Turns From 0	Size	Approximate Closing Force Measured 30" From Hinge.
1-1/2	1	2 lbf.
2	2	3 lbf.
4	3	5 lbf.
6	4	8 lbf.
8	5	11 lbf.
10	6	14 lbf.

NOTE: Maximum of 14 turns (360°) of Power Adjustment Shaft.
Closer is shipped set at 4 turns.

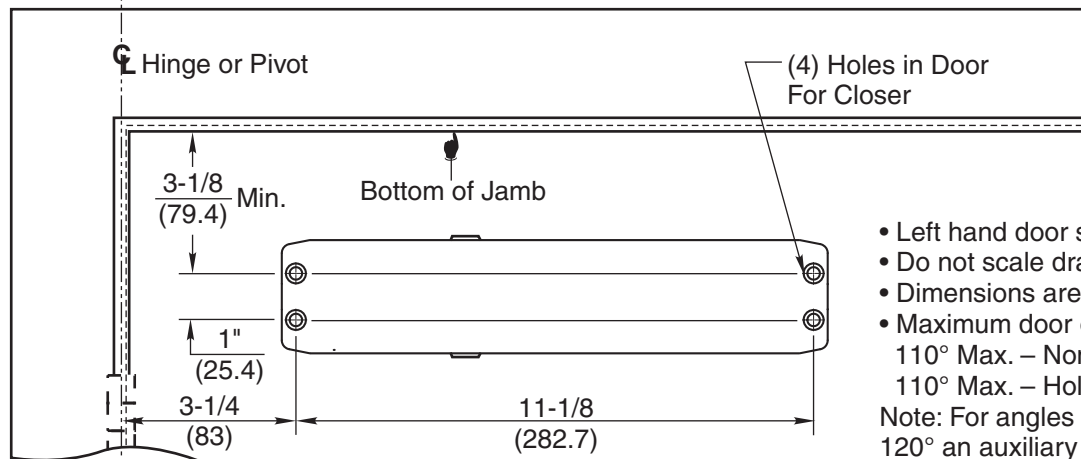
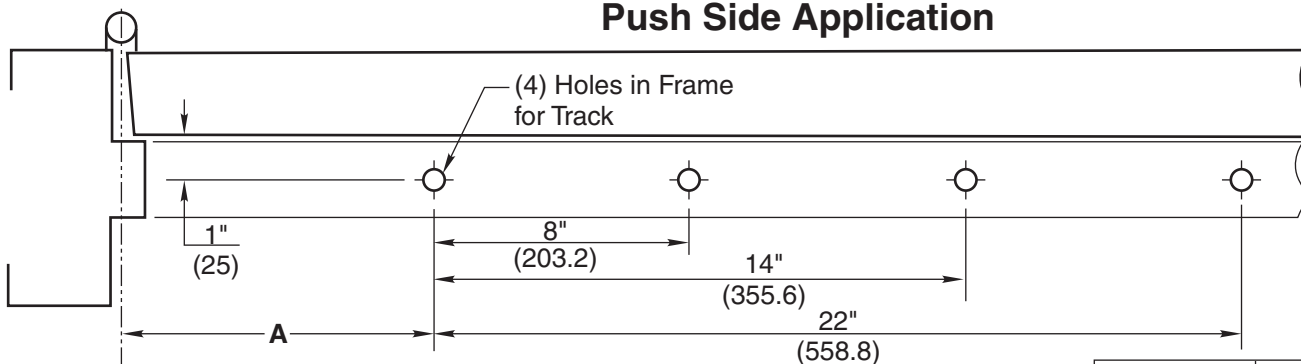
3. Fasten closer body to door with power adjustment nut toward lock edge of door.
4. Fasten slide track to frame face with open side facing down and spring buffer end toward hinge edge of door.



Preparation for Fasteners			
	Fasteners	Door or Frame	Drill-Sizes
Standard	Self-Drilling Screw	Aluminum or Metal	No drill required
		Wood	3/16" (4.30 mm) pilot hole required
	1/4" - 20 machine screw	Metal	Drill: #7 (0.201" dia.) Tap: 1/4" - 20
Optional	Sleeve nuts and bolts	Hollow Metal	9/32" (7 mm) through; 3/8" (9.5 mm) door face opposite to closer
		Aluminum or Wood	3/8" (9.5 mm) through
	Through-bolts and grommet-nuts	All	9/32" (7 mm); 3/8" (9.5 mm) dia. x 3/8" (9.5 mm) deep on door opposite to closer

5. Secure arm to spline shaft with arm screw using 4mm allen wrench provided.
6. Insert spline shaft into top of closer using Arm Indexing instructions above.
7. Insert arm stud into slide block in track assembly. 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. (See Figure 1 on Page 4)
8. Slide the spline in or out of the closer up to 1/2 inch until arm is parallel to the track. Install plastic bushing on opposite side of spline shaft with provided screw.
9. Adjust closer. (See Page 4)

Push Side Application



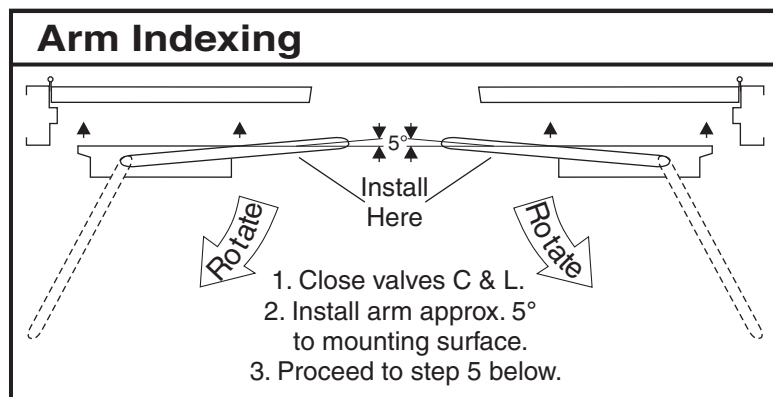
Max Degree Of Opening	Dim. "A"	Min. Door Width
85	9-1/4 (235)	32" (813)
90	8-3/8 (213)	32" (813)
100	6-5/8 (168)	30" (762)
110	5 (118)	28" (711)

- Left hand door shown
 - Do not scale drawing
 - Dimensions are given in inches (mm)
 - Maximum door opening:
110° Max. – Non Hold Open
110° Max. – Hold Open track
- Note: For angles between 110° and 120° an auxiliary stop by others is required. Contact factory for details and template.

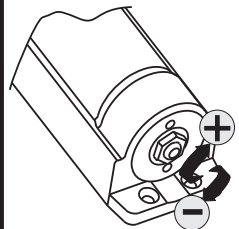
Installation Sequence:

1. Use template to locate holes on door and frame:
4 on door for closer.
4 on frame soffit for track assembly.
2. Prepare door and frame for fasteners using chart on Page 2.
3. Secure arm to spline shaft with arm screw using 4mm allen wrench provided.

4. Insert spline shaft into top of closer using Arm Indexing instructions below.



5. Rotate arm as shown above and fasten closer body to door with power adjustment nut toward lock edge of door.
6. Fasten slide track to frame soffit with open side facing down and spring buffer end toward hinge edge of door.
7. Insert arm stud into slide block in track assembly. 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. (See Figure 1 on Page 4.)
8. Slide the spline in or out of the closer up to 1/2 inch until arm is parallel to the track. Install plastic bushing on opposite side of spline shaft with provided screw.
9. Adjust closer. (See Page 4)



Power Adjust

Use 5/8" Socket or Adjustable Wrench for this Adjustment

Power Adjustment Chart for DC5240, DC5240 x A1 ONLY

Number of Turns From 0	Size	Approximate Closing Force Measured 30" From Hinge.
2	1	2 lbf.
3	2	3 lbf.
5	3	5 lbf.
6-1/2	4	8 lbf.
9	5	11 lbf.
11	6	14 lbf.

NOTE: Maximum of 14 turns (360°) of Power Adjustment Shaft. Closer is shipped set at 4 turns.

Adjustment Instructions

Arm Attachment to Track

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

1. Closing Power

DC5000 Models are fully adjustable. For proper sizing see chart on Page 2 or 3. To adjust closer power – See Figure 2. Increase or decrease power as necessary.

2. Closing Cycle (hydraulic control) See Figure 3A.

Valve "L" controls door speed in Latch range.
Valve "C" controls door speed in Sweep range.
Use 4mm hex-key furnished & adjust as shown in Figure 4.

3. Opening Cycle (hydraulic control) See Figure 3B.

Valve cushions (slows) door opening in the backcheck range.
Note: Never close this valve completely or damage to closer may occur.
Use 4mm hex-key furnished & adjust as shown in Figure 5.

4. Installation of Cover:

Architectural plastic cover: Slide cover over the closer and snap on.

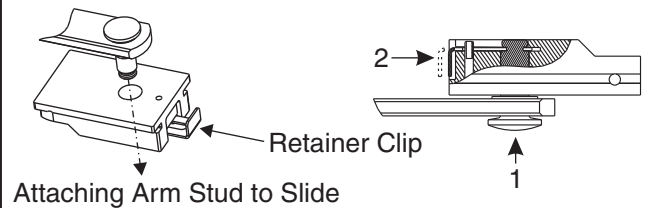
On/Off Hold Open Feature:

Slotted screw, accessible thru hole in face of track, engages or disengages the hold open feature with 1/4 turn of the screw. See Page 1 for location of screw.

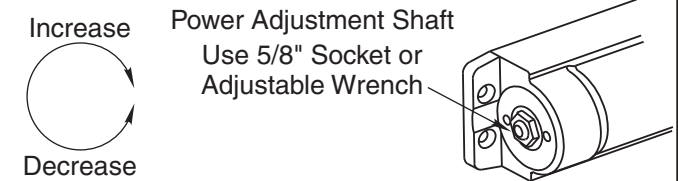
Hold Open Power Adjustment:

If more hold open power is required, the power may be increased by turning the adjustment shaft in the end of the track nearest the hinges. Use 9/64" hex wrench provided and rotate adjustment shaft clockwise to increase holding power.

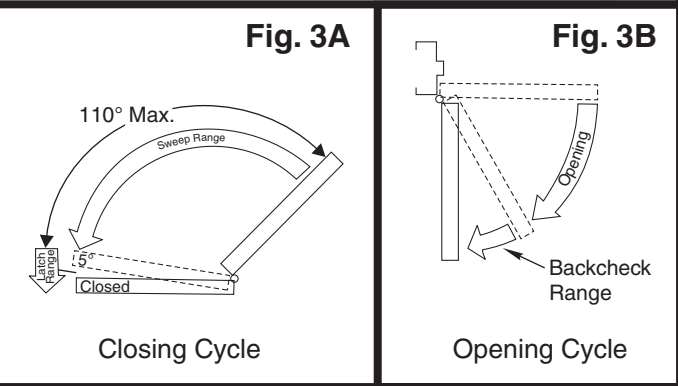
Attaching Arm Stud to Slide Fig. 1



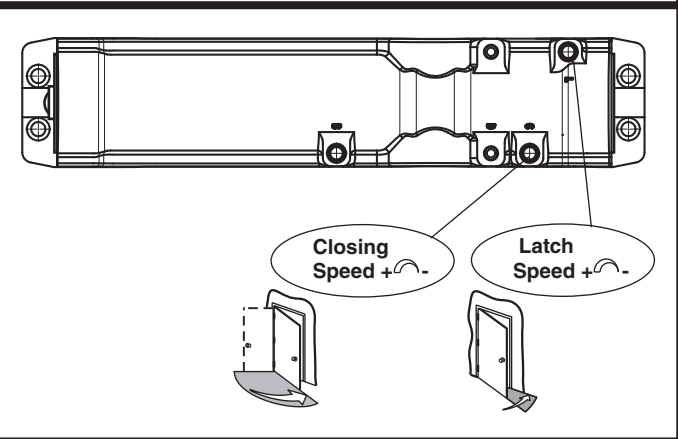
Closing Power Control Fig. 2



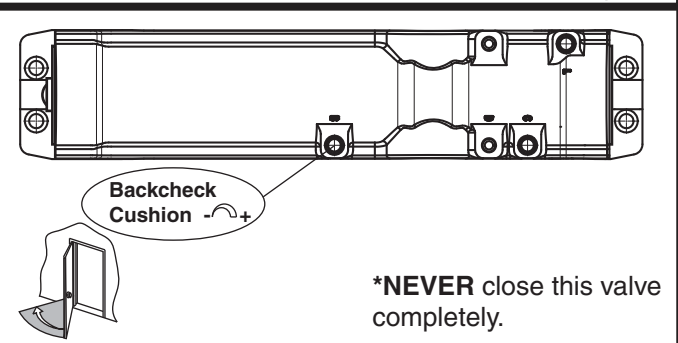
Hydraulic Control Fig. 3



Closing Speed Fig. 4



Backcheck Fig. 5



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