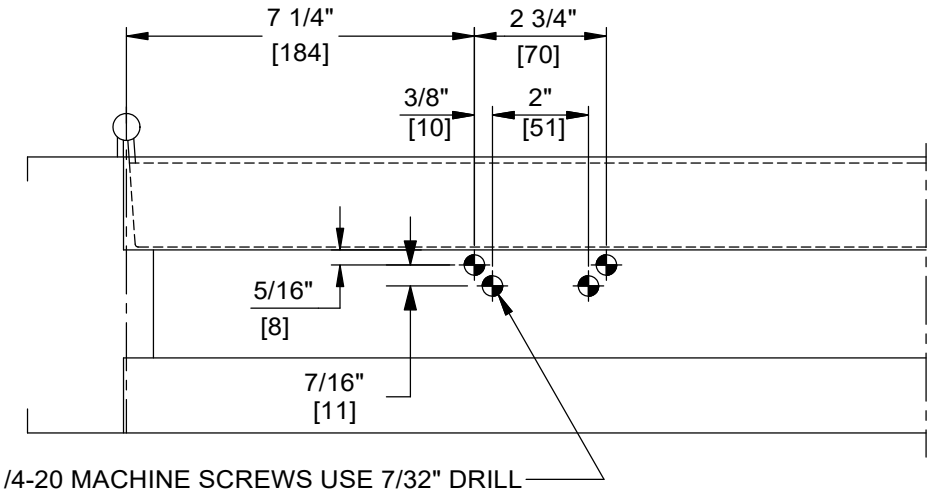
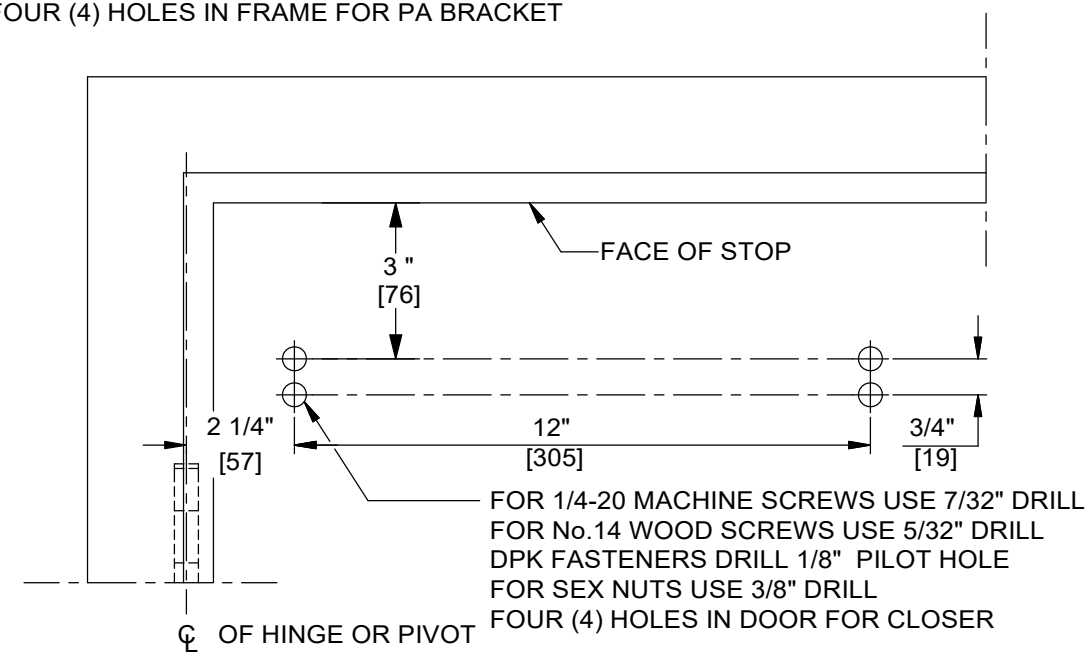
TMP NO. 08280434	PAGE 1 OF 1	REV. 05/20	**Always consult dormakaba's web site for latest template at www.dormakaba.us or call 1-800-523-8483.**

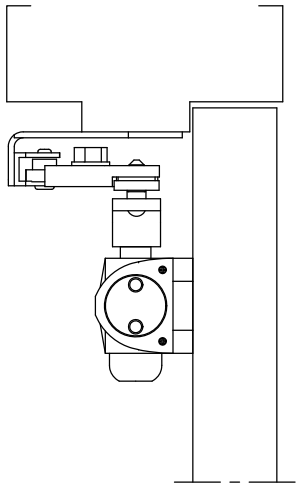


FOR 1/4-20 MACHINE SCREWS USE 7/32" DRILL
FOR No.14 WOOD SCREWS USE 5/32" DRILL
DPK FASTENERS DRILL 1/8" PILOT HOLE
FOUR (4) HOLES IN FRAME FOR PA BRACKET

NOTES:
1. DO NOT SCALE DRAWING.
2. DIMENSIONS ARE IN INCHES/(MM).
3. LEFT HAND DOOR SHOWN.
4. CAUTION: SEX NUTS ARE REQUIRED FOR ATTACHMENT OF COMPONENTS TO UNREINFORCED DOORS AND TO WOOD OR PLASTIC FACED COMPOSITE TYPE FIRE DOORS, UNLESS AN ALTERNATIVE METHOD IS IDENTIFIED IN THE INDIVIDUAL DOOR MANUFACTURER'S LISTINGS.
5. MAX. OPENING IS 180°.
6. OPTIONAL DPK FASTENERS (DPK86) FOR STEEL DOOR & FRAME ONLY.



FOR 1/4-20 MACHINE SCREWS USE 7/32" DRILL
FOR No.14 WOOD SCREWS USE 5/32" DRILL
DPK FASTENERS DRILL 1/8" PILOT HOLE
FOR SEX NUTS USE 3/8" DRILL
FOUR (4) HOLES IN DOOR FOR CLOSER



DOOR CLOSER MODELS: 8616 AFP OR ARP (NHO)
PARALLEL ARM INSTALLATION (PUSH SIDE MOUNT)

dormakaba
dormakaba USA Inc
800 523 8483

8616 AF/AFJ/AFP

Flat arm for regular, top jamb and parallel mounts
No hold open

Installation instructions

08279001 – 01-2021

| EN |

dormakaba

Table of contents

1 Technical specifications

1.1 Overview

- Caution: sex nuts are required for attachment of components to unreinforced doors and to wood or plastic faced composite type fire doors, unless an alternative method is identified in the individual door manufacturer's listings.
- Maximum door opening degree is 180°.
- Maximum 4-1/2" reveal on top jamb mounts for 180° degree openings.
- Know the swing of the door which is being installed prior to installation.
- Verify closer spring size prior to installation.
- Make sure door efficiently operates prior to installing closer.

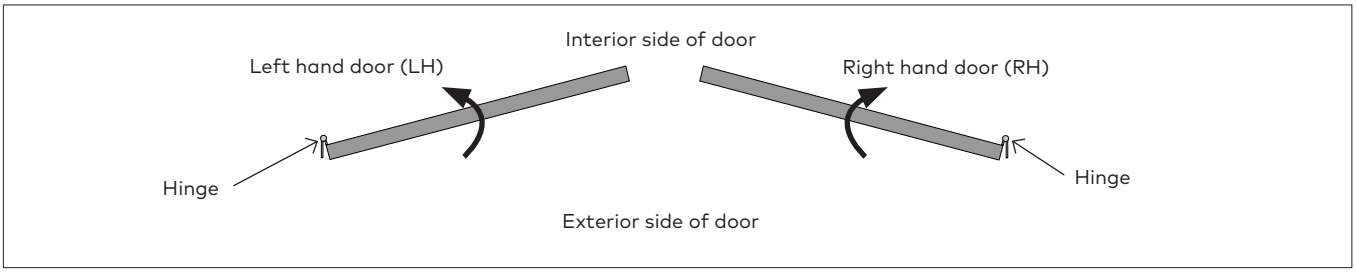
1.2 Tools recommended

Table 1

Drill bits:	#3 Phillips screwdriver
Metal: 7/32" drill bit; 1/4-20 tap	3/16" flat head screwdriver
Wood: 3/8" and 5/32" bit	5mm hex key
1/2" box wrench	7/16" box wrench

1.3 Handing the door

Fig.1

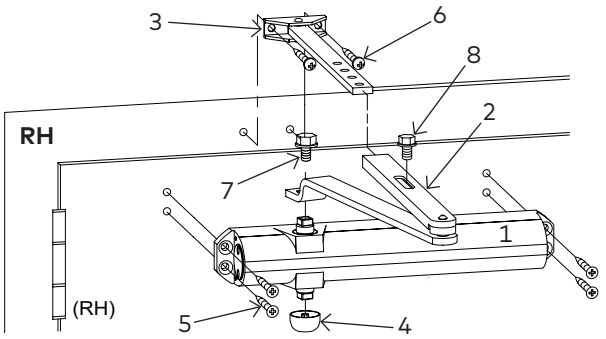


2 Installation - regular mount

2.1 Surface closer system

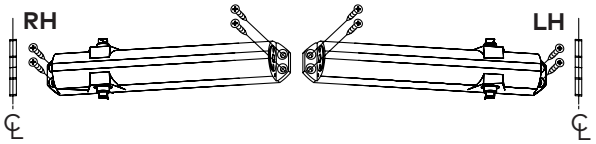
Fig.2

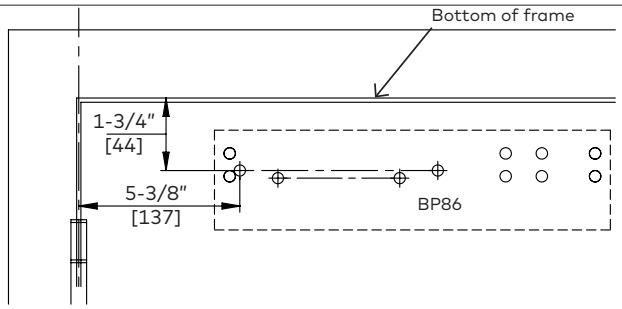
1. Door closer
2. Connecting arm
3. Bar and shoe
4. Dust cap
5. Flat head combo screws
6. Pan head combo screws
7. Pinion screw
8. Connecting arm screw



2.2 Installing the surface closer and backplate (optional)

Fig.3



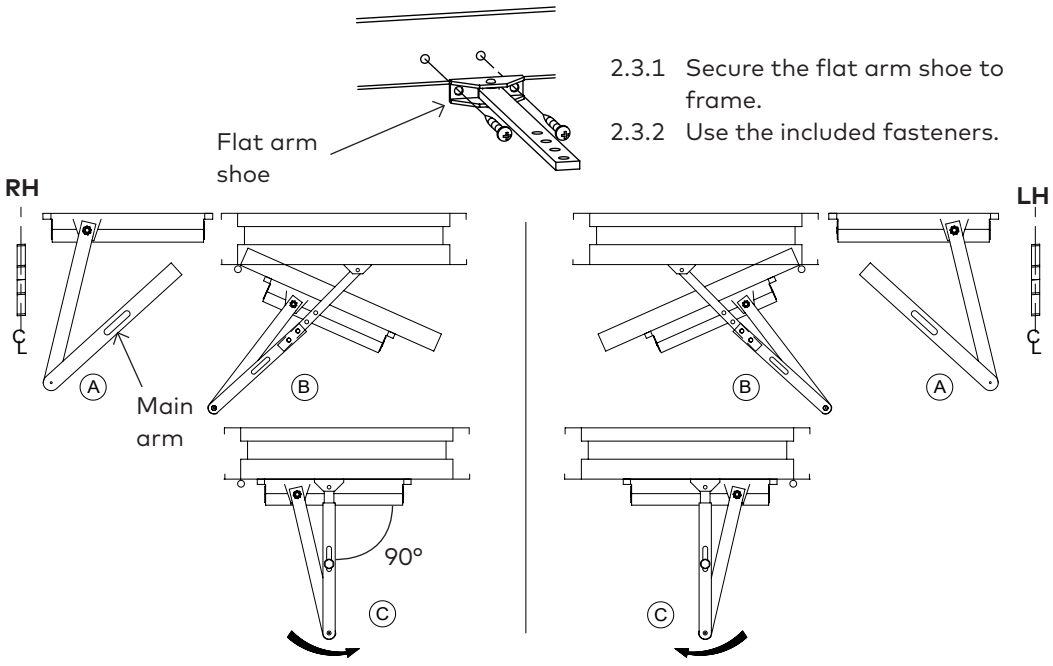


NOTE: Orient pinion toward the hinge.

2.2.1 Secure closer body and/or backplate to door.

2.3 Installing main arm

Fig.4



2.3.1 Secure the flat arm shoe to frame.

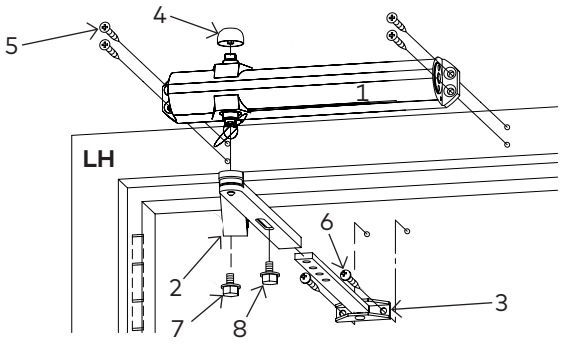
2.3.2 Use the included fasteners.

3 Instructions - top jamb mount

3.1 Surface closer system

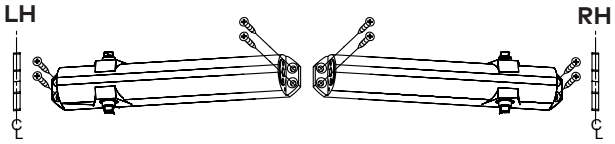
Fig.5

1. Door closer
2. Connecting arm
3. Bar and shoe
4. Dust cap
5. Flat head combo screws
6. Pan head combo screws
7. Pinion screw
8. Connecting arm screw



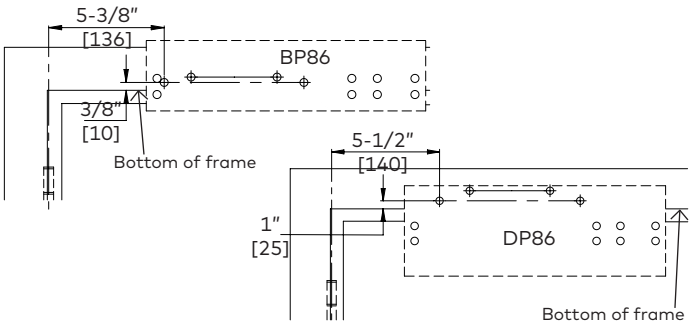
3.2 Installing the surface closer and (optional) plate

Fig.6



NOTE: Orient pinion toward hinge.

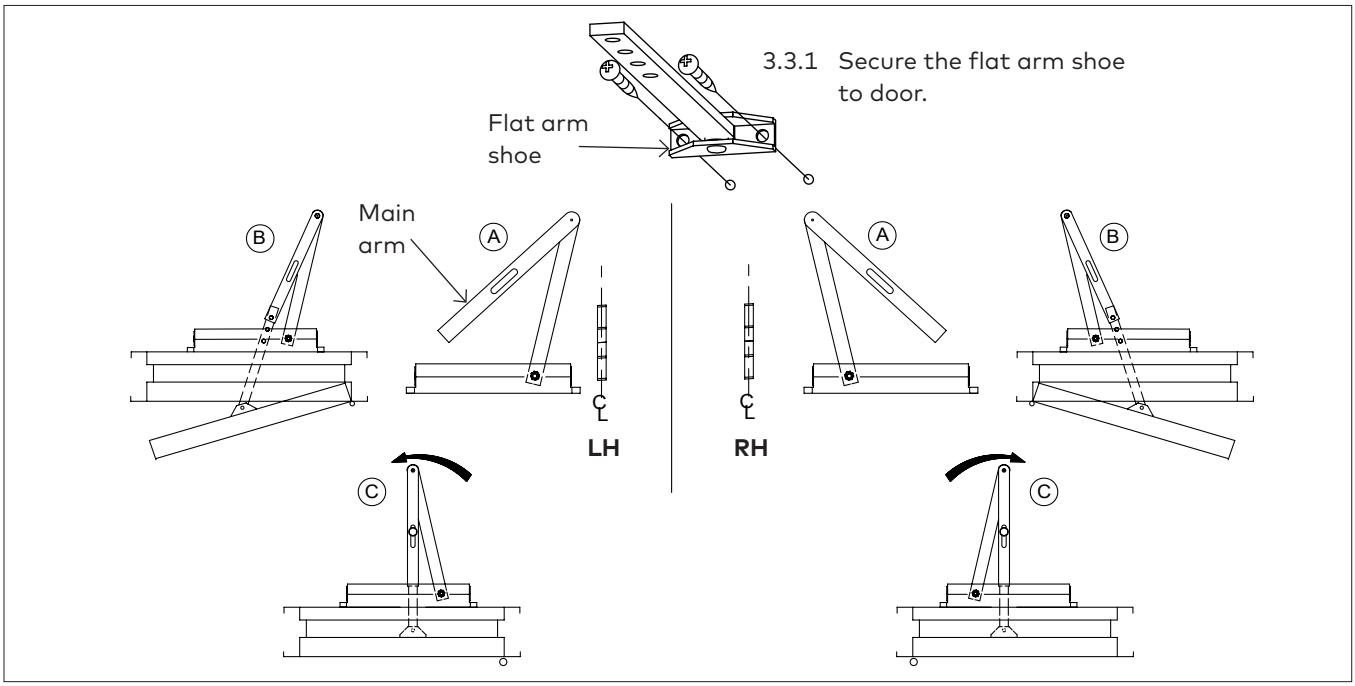
3.2.1 Secure closer and/or optional plate.



3.3 Installing main arm

Fig.7

3.3.1 Secure the flat arm shoe to door.

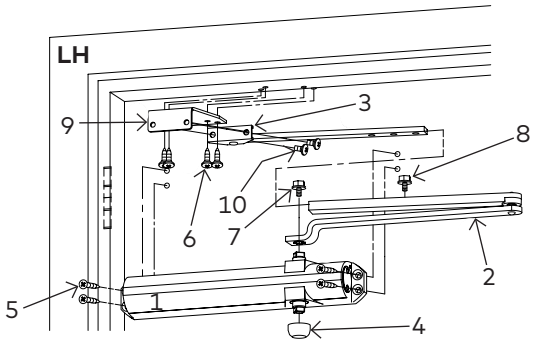


4 Instructions - parallel mount

4.1 Surface closer system

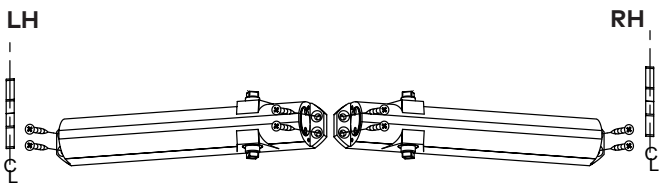
Fig.8

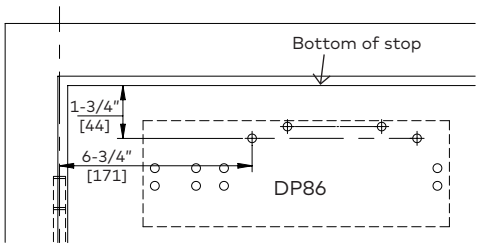
1. Door closer
2. Connecting arm
3. Bar and shoe
4. Dust cap
5. Flat head combo screws
6. Pan head combo screws
7. Pinion screw
8. Connecting arm screw
9. PA bracket
10. PA shoe screws



4.2 Installing the surface closer and drop plate (optional)

Fig.9





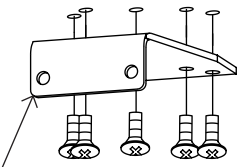
NOTE: Orient pinion away from hinge.

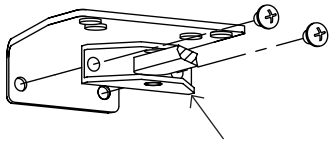
4.2.1 Secure closer body and/or drop plate to door.

4.3 Installing PA bracket and main arm

Fig.10

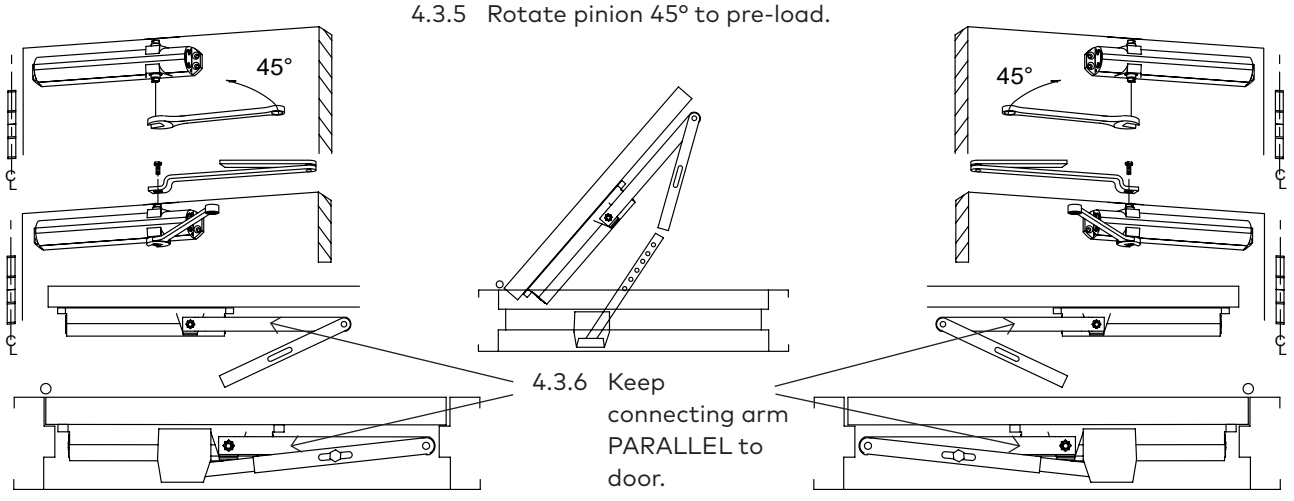
4.3.1 Secure PA bracket to frame.
4.3.2 Use included fasteners.





4.3.3 Secure flat arm shoe to bracket.
4.3.4 Use included fasteners.

4.3.5 Rotate pinion 45° to pre-load.



4.3.6 Keep connecting arm PARALLEL to door.

5 Adjustments

⚠ Confirm closer spring size prior to making any closing speed adjustments.

⚠ Do not back valve heads out beyond closer casting.

⚠ Backcheck positioning MUST be turned "ON" for parallel arm applications.

⚠ Backcheck position will advance approximately 15°.

⚠ Check delayed action (DEL) function if supplied.

⚠ Maximum opening angle is 180°.

⚠ Door should close in 3 to 6 seconds from 90°.

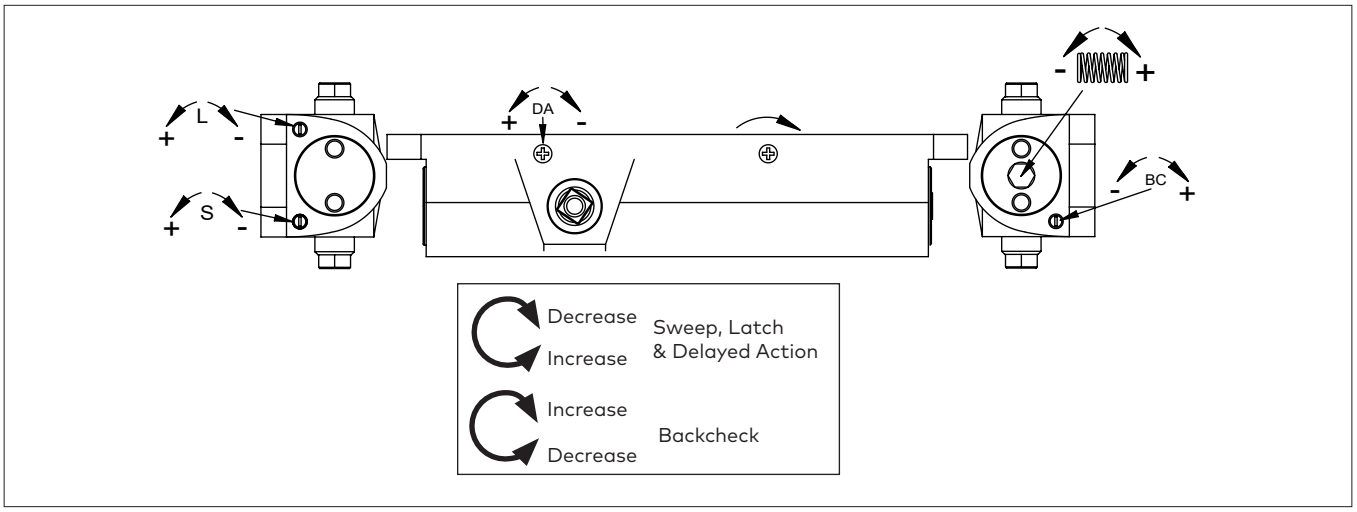
⚠ Do not close valves completely.

⚠ Ball bearing hinges and pivots should always be used.

⚠ 8616 meets 5lb interior barrier-free requirements. If necessary, adjust closer spring and test pull forces until proper forces are obtained.

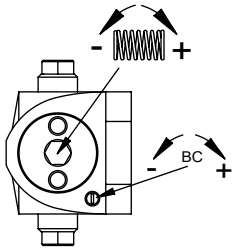
5.1 Adjust closing speeds: sweep, latch, backcheck, delayed action

Fig.11



5.2 Adjust spring force

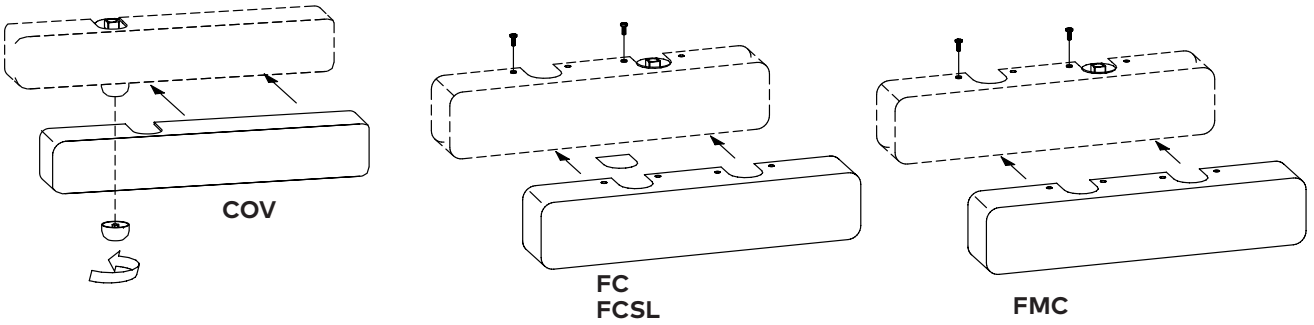
Fig.12



Regular and top jamb mounts					
	Closer size	Max door weight (lbs)	Door width		Full turns
			Interior	Exterior	
8916	2	100	2'6"	---	-19
	3	125	3'	2'6"	-11
	4	150	3'6"	3'	0
	5	200	4'	3'6"	+5
	6	250	---	4'	+13
Parallel mount					
8916	3	100	2'6"	----	-11
	4	125	3'	2'6"	0
	5	150	3'6"	3'	+5
	6	200	4'	3'6"	+13

6 Install covers

Fig.13



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