HD8000 PH/PHP

Plunger hold open for regular, top jamb and parallel mounts

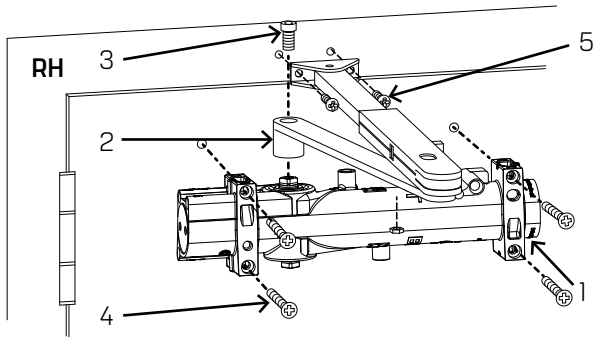
Installation Instructions

BEST dormakaba Group

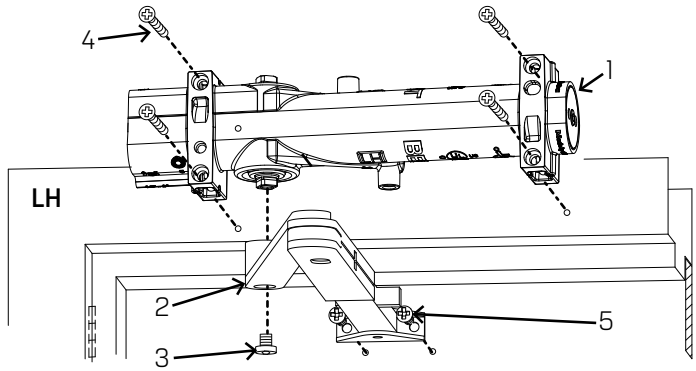
OVERVIEW

1	Closer body
2	Plunger hold open arm
3	Pinion screw
4	#12 screws for closer body
5	Pan head screws (metal and wood) #14
6	PA bracket
7	PA shoe screws (not shown)
8	Full cover (standard, not shown)
9	Backplate (optional, not shown)
10	Full metal cover (optional, not shown)

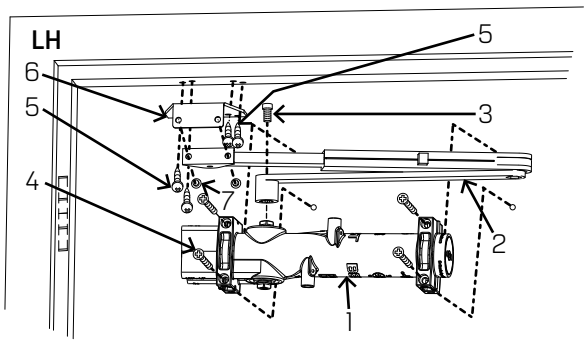
Regular mount



Top jamb mount



Parallel mount



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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.

Hold open range is from 30° to 140°.

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.

Do not hammer arm onto spindle. Warranty will be void.

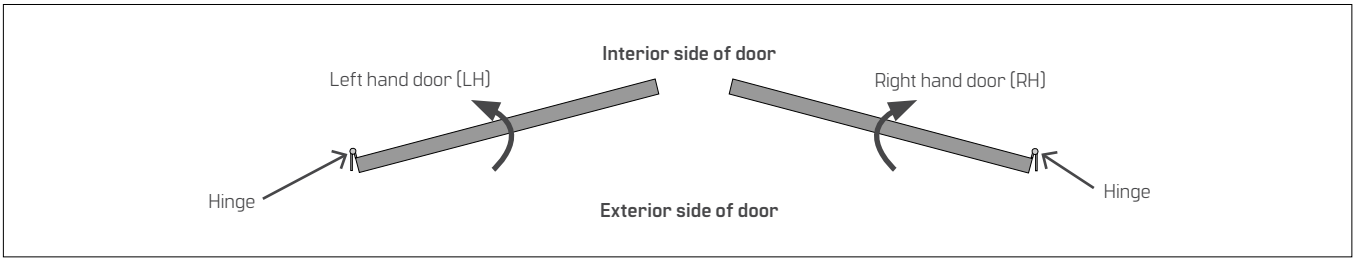
1.2 Tools recommended

Table 1

Drill bits:	#3 Phillips screwdriver
Metal: 7/32" drill bit; #12-24 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



1.4 Surface closer components

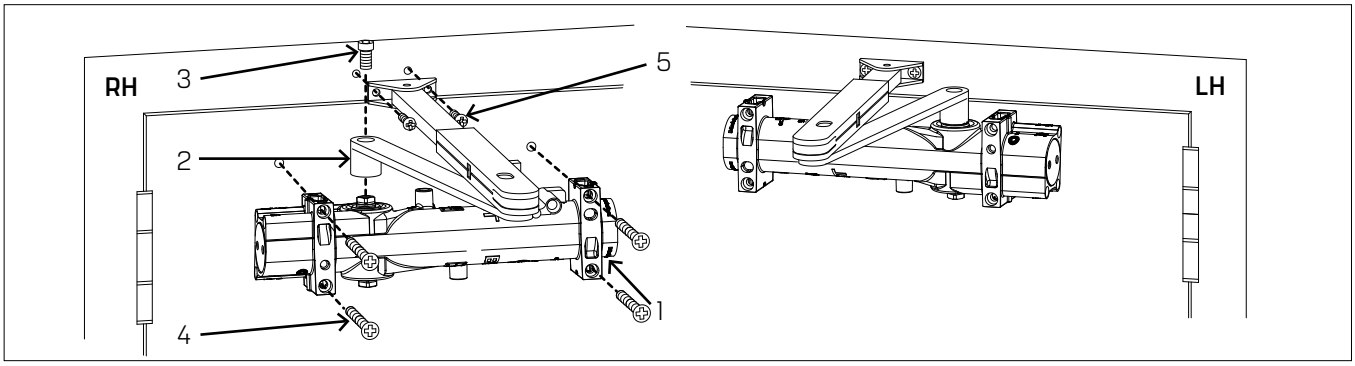
The surface closer is comprised of the following components.

1. Closer body
2. Plunger hold open arm
3. Pinion screw
4. #12 screws for closer body
5. Pan head screws (metal and wood) #14
6. PA bracket
7. PA shoe screws
8. Full cover (standard)
9. Backplate (optional)
10. Full metal cover (optional)

2 Installation - regular mount

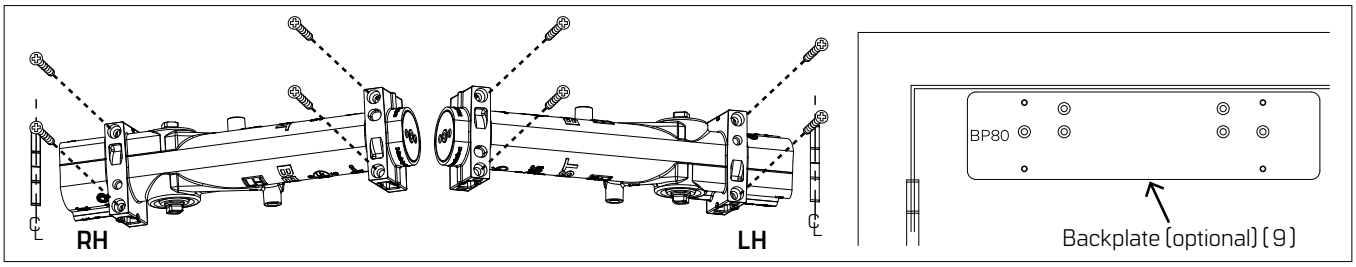
2.1 Surface closer system

Fig.2



2.2 Installing surface closer and backplate (optional)

Fig.3

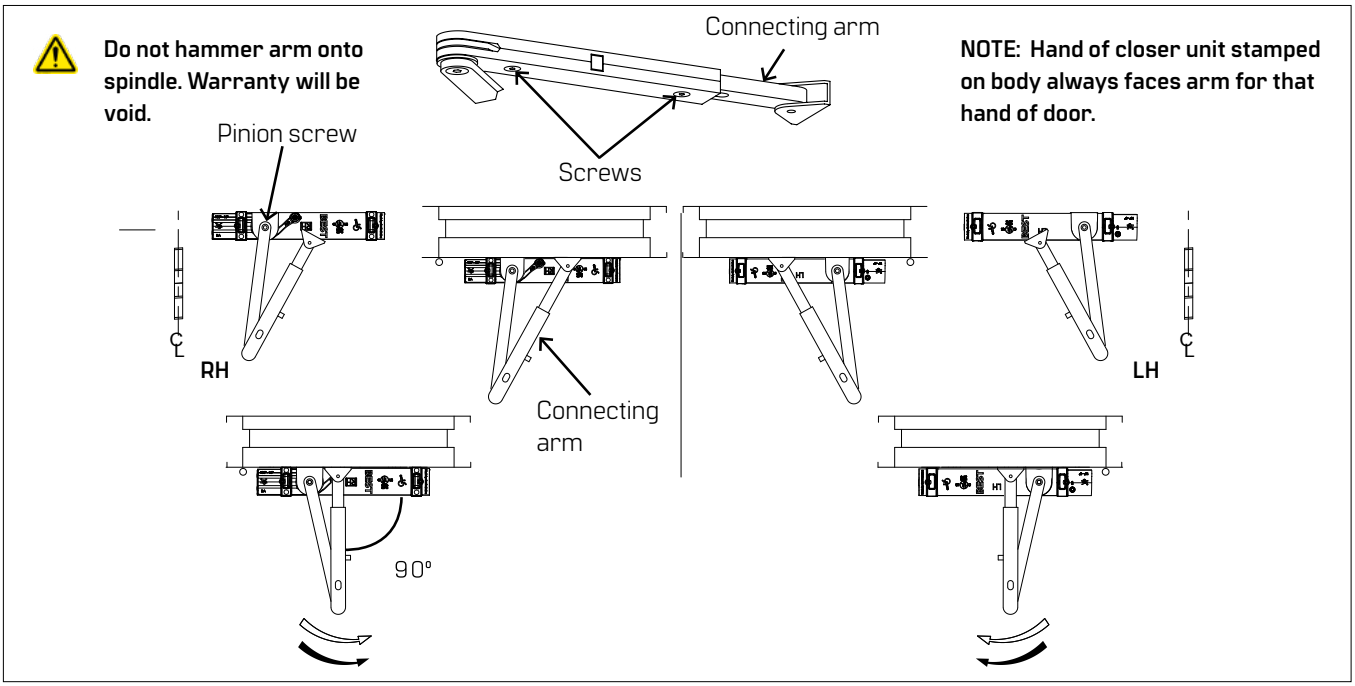


NOTE: Orient pinion toward the hinge.

2.2.1 Secure closer body and/or backplate.

2.3 Installing arm

Fig.4



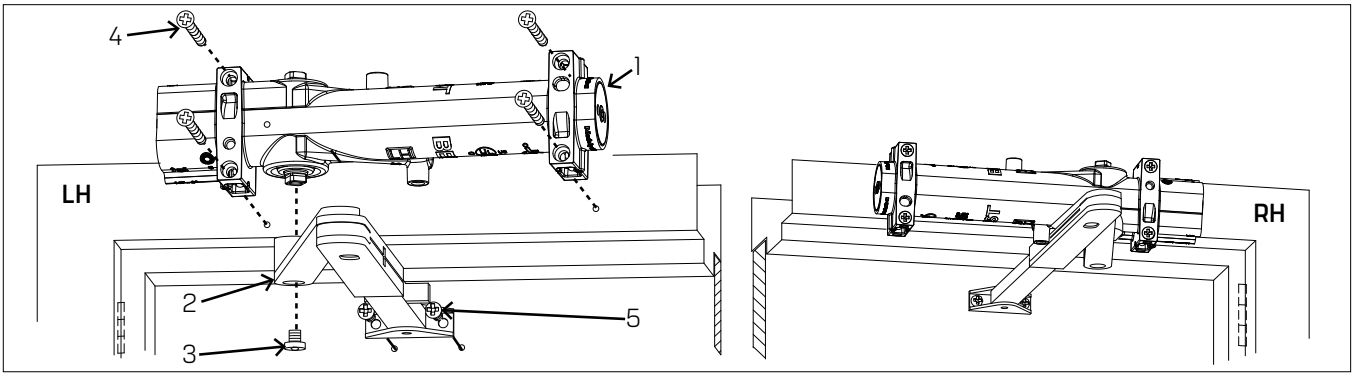
2.3.1 Loosen the two screws on the connecting arm.
2.3.2 Secure arm to closer via pinion screw.
2.3.3 Secure connecting arm to frame.

NOTE: Ensure arm is mounted 90° to the frame.
2.3.4 Tighten screws.

3 Instructions - top jamb mount

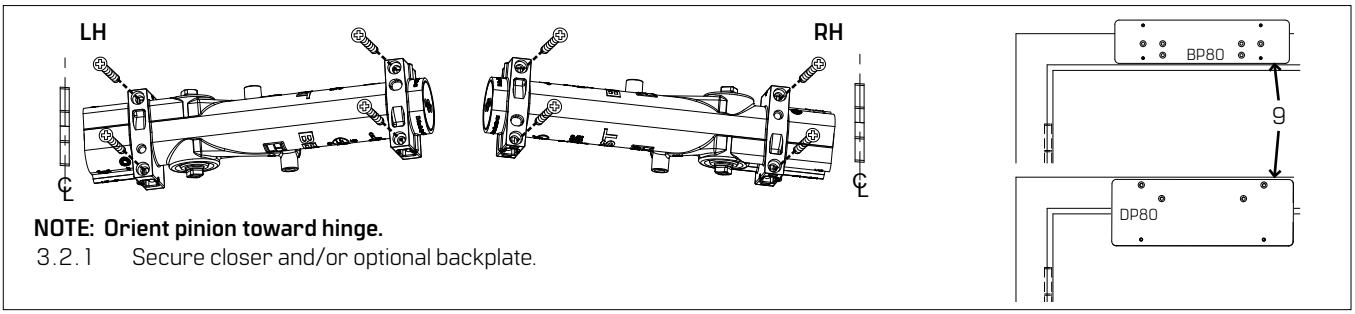
3.1 Surface closer system

Fig.5



3.2 Installing surface closer and backplate (optional)

Fig.6

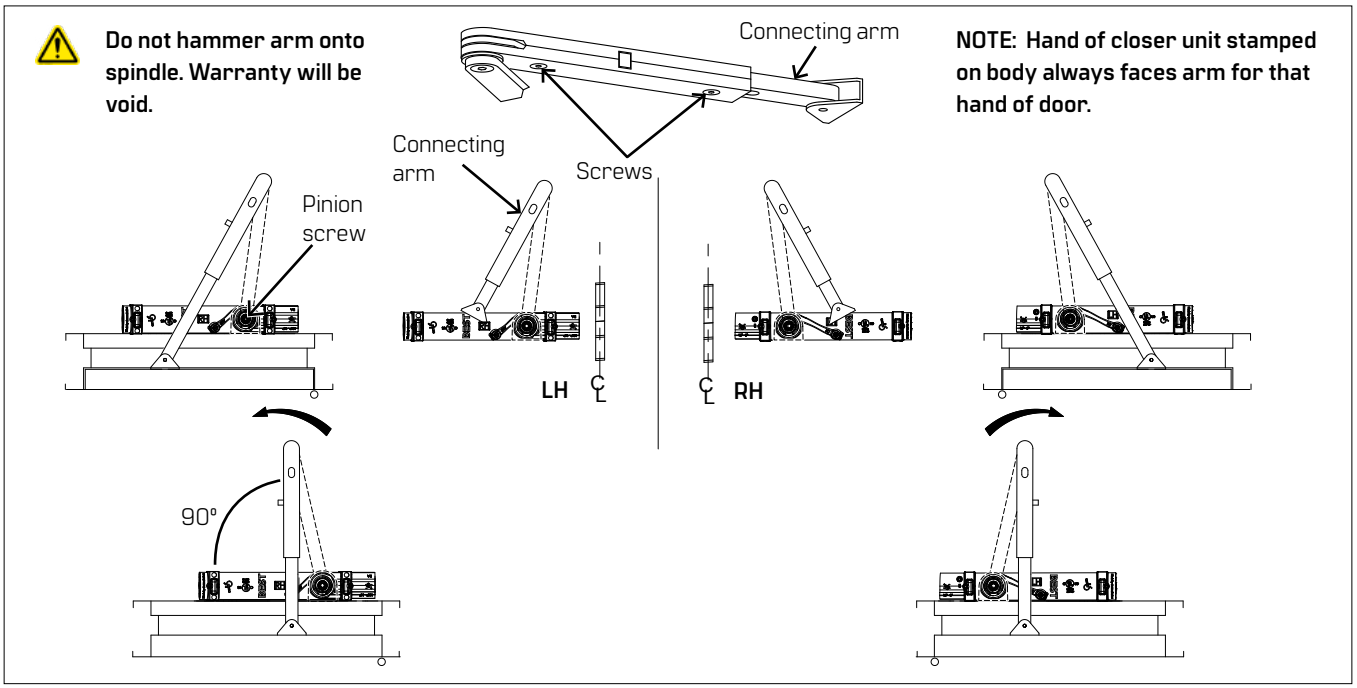


NOTE: Orient pinion toward hinge.

3.2.1 Secure closer and/or optional backplate.

3.3 Installing main arm

Fig.7



3.3.1 Loosen the two screws on the connecting arm.

3.3.2 Secure arm to closer via pinion screw.

3.3.3 Secure connecting arm to frame.

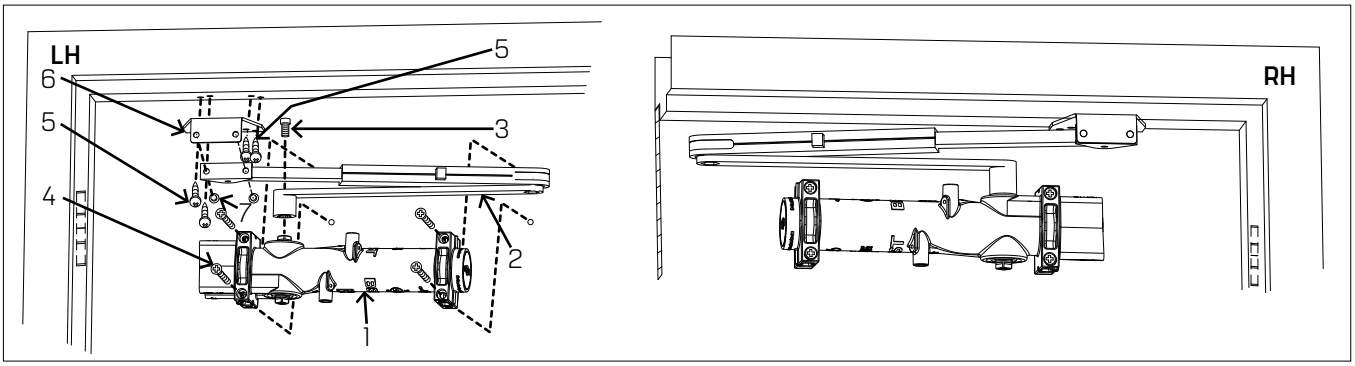
NOTE: Ensure arm is mounted 90° to the frame.

3.3.4 Tighten screws.

4 Instructions - parallel mount

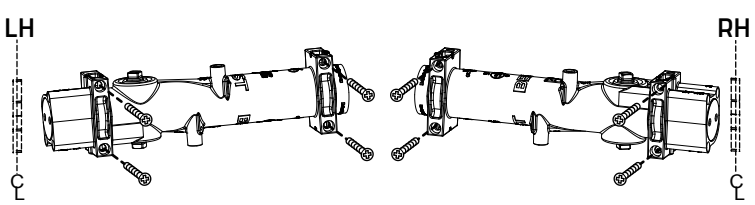
4.1 Surface closer system

Fig.8

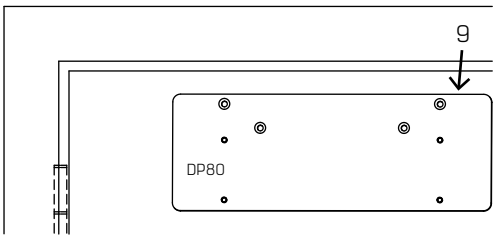


4.2 Installing the surface closer and drop plate (optional)

Fig.9



NOTE: Orient pinion toward the hinge.



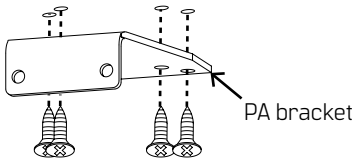
4.2.1 Secure closer body and/or drop plate.

4.3 Installing arm

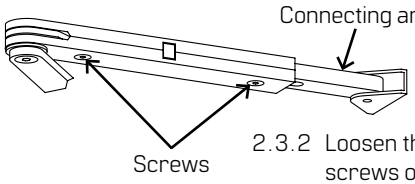
Fig.10

Do not hammer arm onto spindle. Warranty will be void.

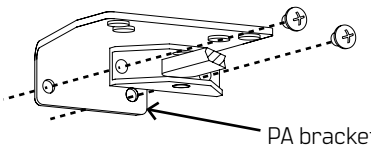
NOTE: Hand of closer unit stamped on body always faces arm for that hand of door.



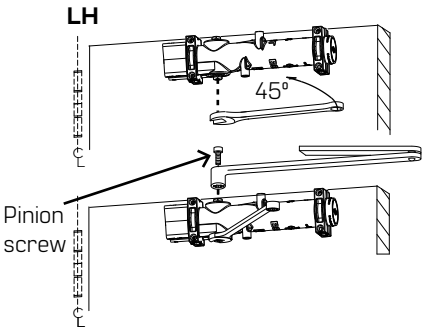
2.3.1 Secure PA bracket to frame.



2.3.2 Loosen the two screws on the connecting arm.



2.3.3 Secure arm to PA bracket.

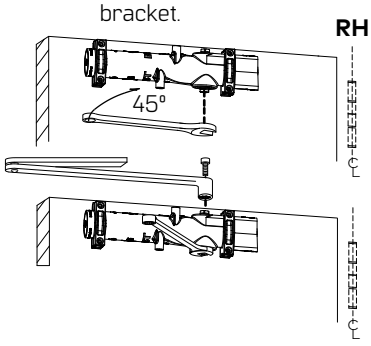


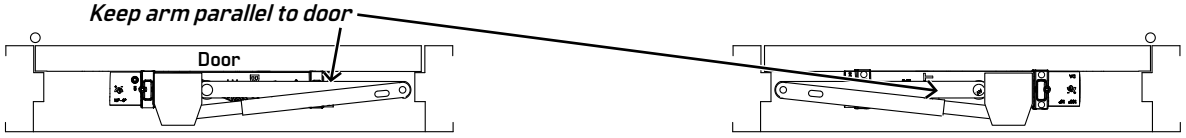
2.3.4 Rotate pinion 45° (away from the door) to preload the arm.

2.3.5 Secure arm to closer using pinion screw.

NOTE: Ensure arm is parallel to door while securing.

2.3.6 Tighten screws.





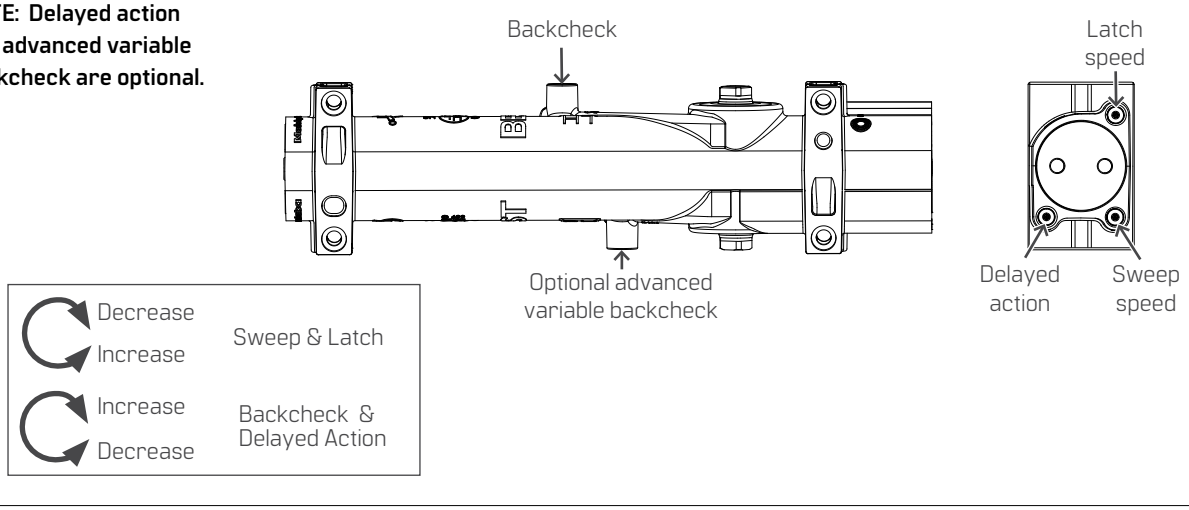
5 Adjustments

- Confirm closer spring size prior to making any closing speed adjustments.
- Do not back valve heads out beyond closer casting.
- Advanced variable backcheck is shipped in the "ON" fully CW position.
- Advanced variable backcheck must remain "ON" for parallel arm mounts.
- Maximum opening angle is 180°.
- Door should close in 3 to 6 seconds from 90°.
- Do not close valves completely.
- Advanced variable backcheck will advance approximately 15° in the "ON" position.
- Turn off advanced variable backcheck by rotating valve CCW.

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

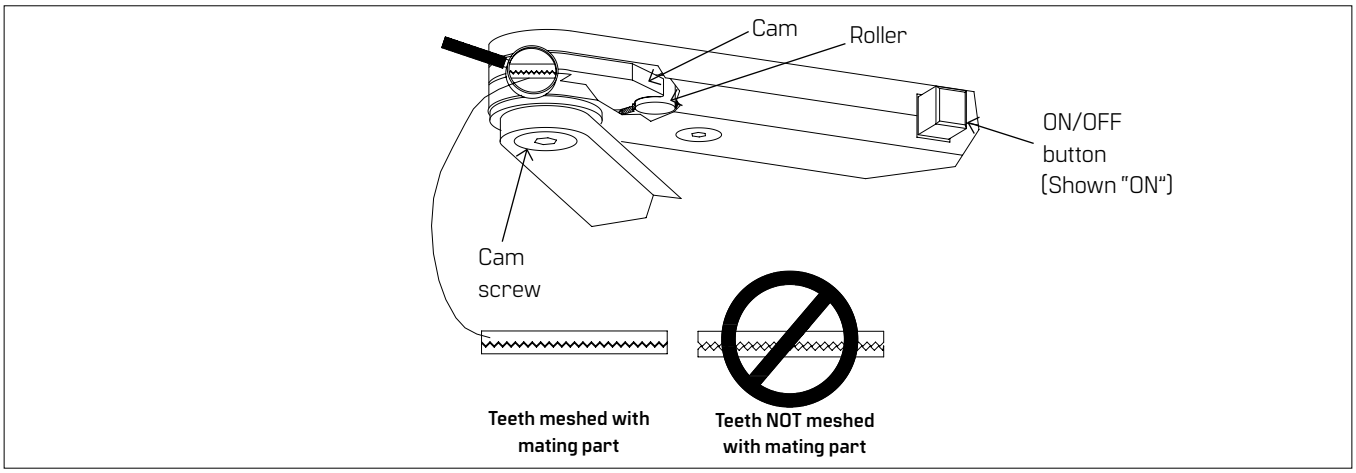
Fig. 1 1

NOTE: Delayed action and advanced variable backcheck are optional.



5.2 Adjust hold open

Fig. 1 2



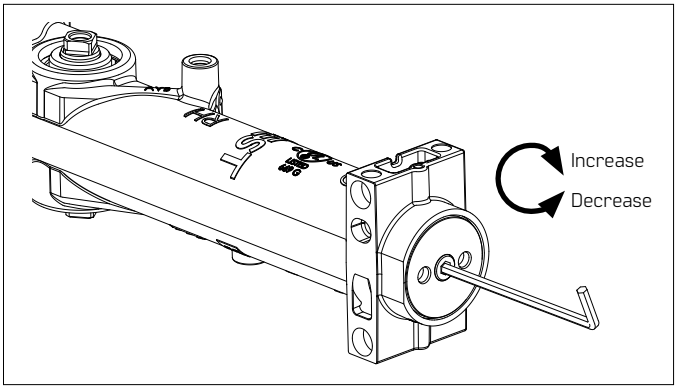
5.2.1 **Adjust hold open force:**

- Loosen cam screw with 6 mm hex key.
- Orient cam so detent aligns with roller.
- Push button to "ON" position to engage roller in detent.
- Open door to desired hold open position.
- Ensure that teeth on cam mesh with mating part. If not, move the door back and forth slightly until meshing occurs.
- Tighten cam screw securely.
- To disengage hold open, pull door until hold open releases allowing the door to close.

NOTE: Failure to ensure teeth are meshing will damage the hold open function.

5.3 Adjust spring force

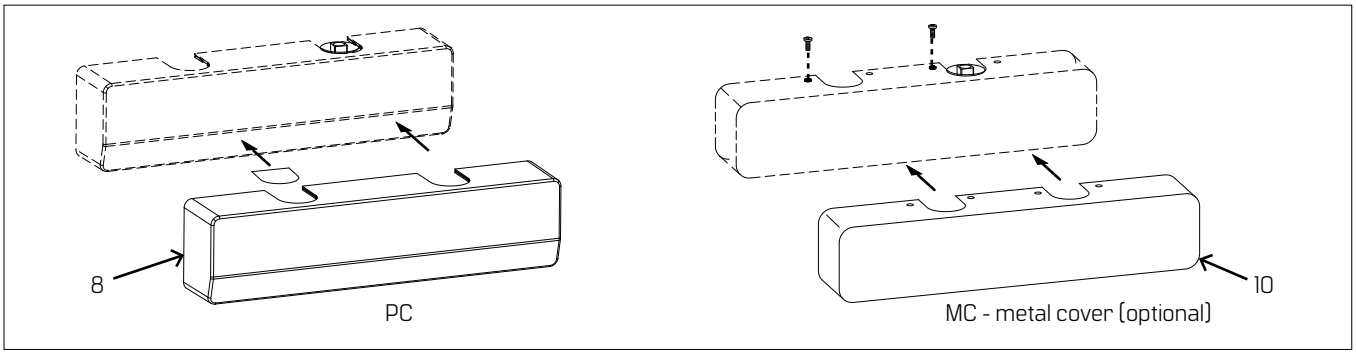
Fig. 1 3



Regular and top jamb mounts					
	Closer size	Max door weight (lbs)	Door width		Full turns
			Interior	Exterior	
HD8016	2	100	2'6"	---	-20
	3	125	3'	2'6"	-12
	4	150	3'6"	3'	0
	5	200	4'	3'6"	+4
	6	250	---	4'	+12
HD8056	5	200	4'	3'6"	-6
	6	250	---	4'	0
Parallel mount					
HD8016	3	100	2'6"	----	-12
	4	125	3'	2'6"	0
	5	150	3'6"	3'	+4
	6	200	4'	3'6"	+12
HD8056	5	150	3'6"	3'	-6
	6	200	4'	3'6"	6
	6+	250	---	4'	6+

6 Install covers

Fig. 1 4



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