8600 FH/FHJ/FHP

Friction hold open for regular, top jamb and parallel mounts

Installation instructions

08279004 - 01-2021



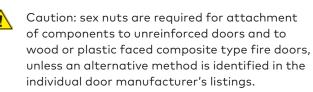
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1 Technical specifications

1.1 Overview

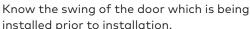


Maximum door opening degree is 180°.



Maximum 4-1/2" reveal on top iamb mounts

Maximum 4-1/2" reveal on top jamb mounts for 180° degree openings.



installed prior to installation.



Verify closer spring size prior to installation.



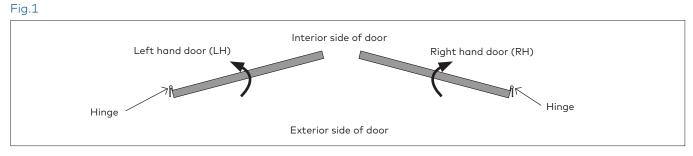
Make sure door efficiently operates prior to installing closer.

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	10″ adjustable wrench	

1.3 Handing the door

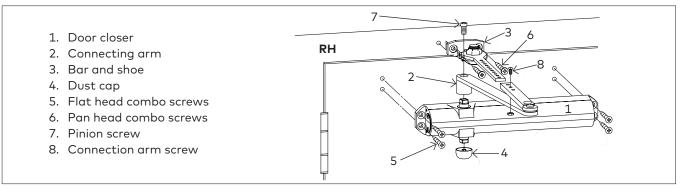


3

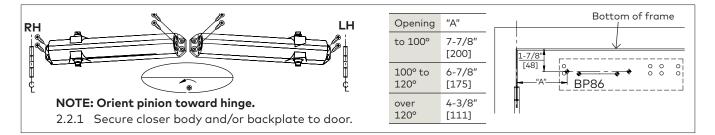
2 Installation - regular mount

2.1 Surface closer system

Fig.2



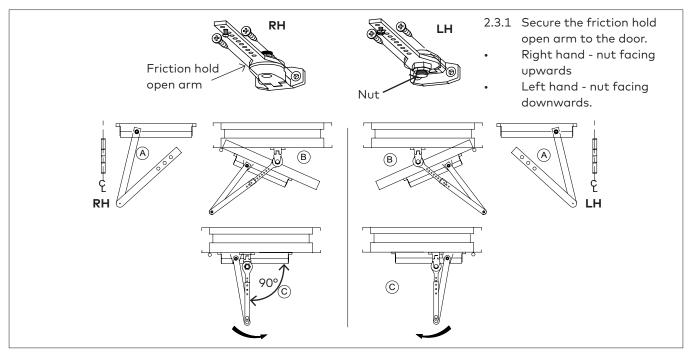
2.2 Installing the surface closer and (optional) backplate Fig.3



2.3 Installing main arm

Fig.4

4



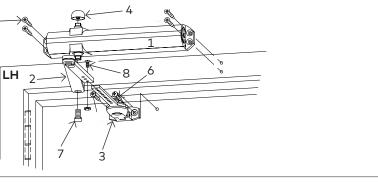
3 Instructions - top jamb mount

5

3.1 Surface closer system

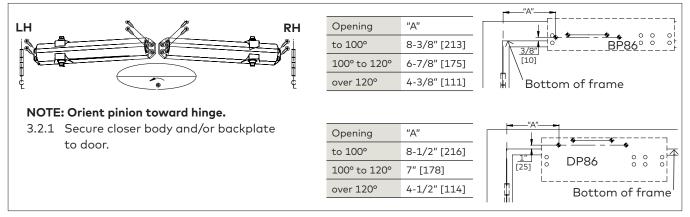
Fig.5

- 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. Connection arm screw



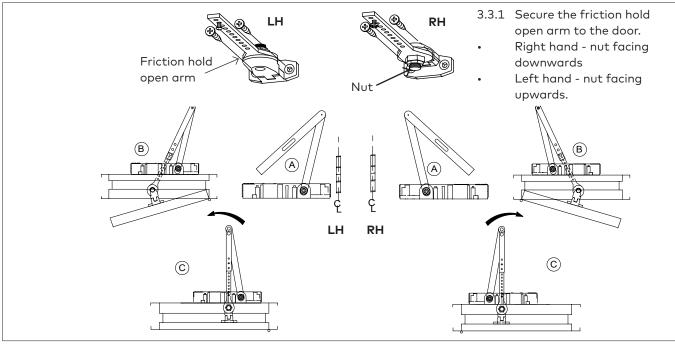
3.2 Installing the surface closer and (optional) plate

Fig.6



3.3 Installing main arm

Fig.7

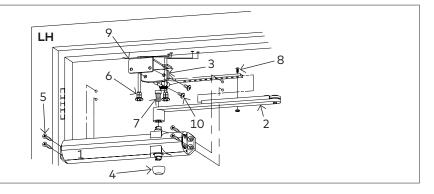


4 Instructions - parallel mount

4.1 Surface closer system

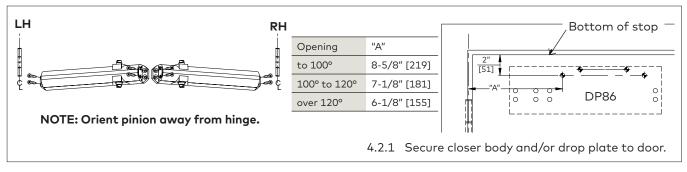
Fig.8

- 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. Connection arm screw
- 9. PA bracket
- 10.PA shoe screws



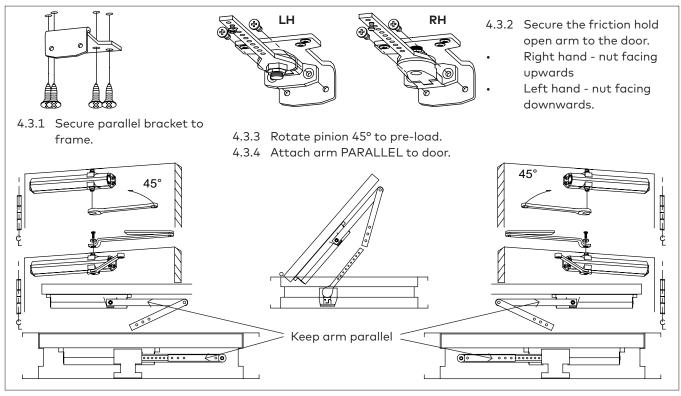
4.2 Installing the surface closer and (optional) drop plate

Fig.9



4.3 Installing main arm

Fig.10



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.

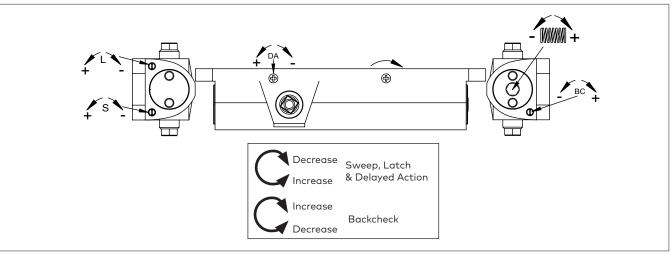
Ball bearing hinges and pivots should always be used.



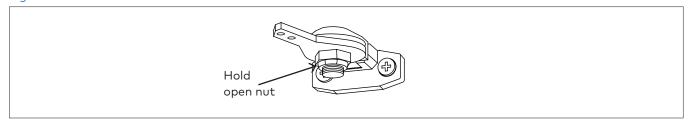
8616 meets 5lb interior barrier-free requirements. If necessary, adjust closer spring and test pull forces until proper forces are obtained.

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





Adjust optional hold open 5.2 Fig.12

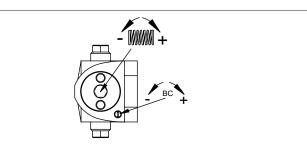


- 5.2.1 Loosen hold open nut.
- 5.2.2 Open door 3° 5° before desired hold open position.
- 5.2.3 Tighten hold open nut securely.
- 5.2.4 Pull door closed.

- 5.2.5 Open door to hold open position. (Do not push door beyond hold open position. An auxiliary stop must be used to limit door swing.)
- 5.2.6 To disengage, pull door closed until hold open releases and door closer takes over.

Adjust spring force 5.3 Fig.13

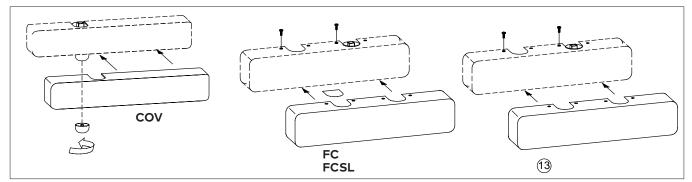




Regular and top jamb mounts									
	Closer size	Max door weight (lbs)	Door width		Full turns				
			Interior	Exterior	Full turns				
	2	100	2'6"		-19				
	3	125	3'	2'6"	-11				
	4	150	3'6"	3'	0				
	5	200	4'	3'6"	+5				
	6	250		4'	+13				
Parallel mount									
	3	100	2'6"		-11				
	4	125	3'	2'6"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

Install covers 6

Fig.14



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