7400 FH/FHJ/FHP

Friction hold open for regular, top jamb and parallel mounts

Installation instructions

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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 170°.

Maximum 4" 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.



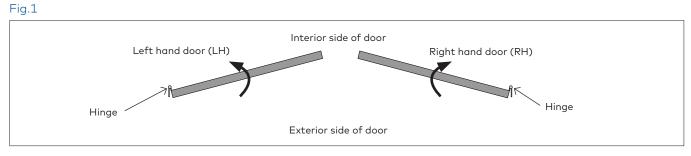
Make sure door efficiently operates prior to installing closer.

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	10″ adjustable wrench		

1.3 Handing the door

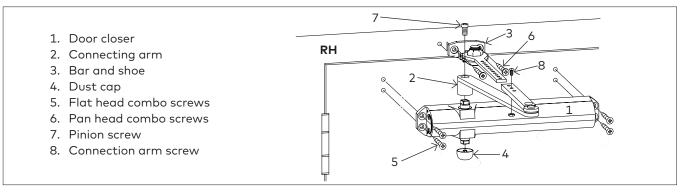


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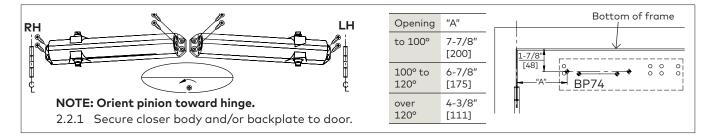
2 Instructions - regular mount

2.1 Surface closer system

Fig.2



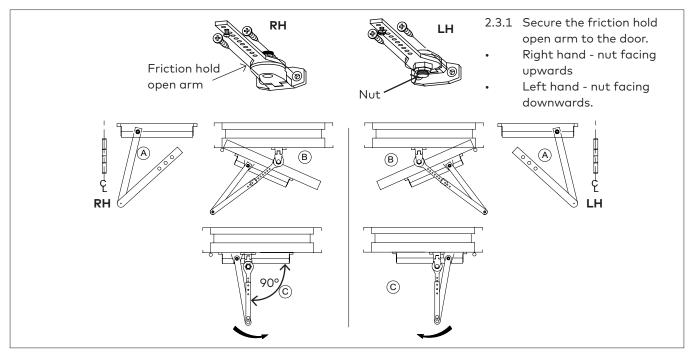
2.2 Installing the surface closer and (optional) backplate Fig.3



2.3 Installing main arm

Fig.4

4



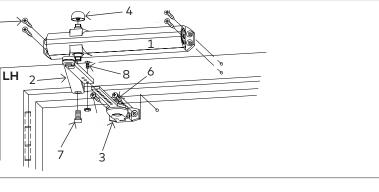
3 Instructions - top jamb mount

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3.1 Surface closer system

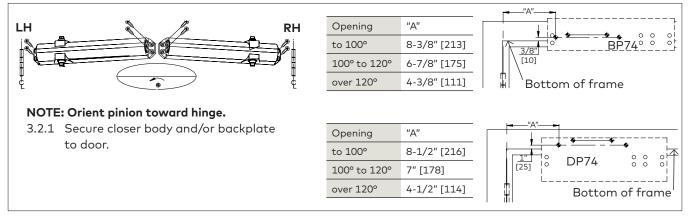
Fig.5

- 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



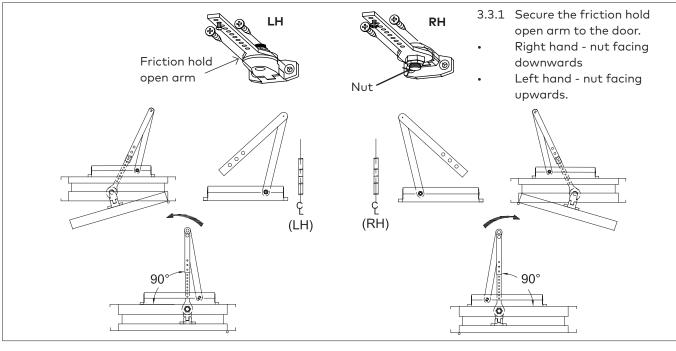
3.2 Installing the surface closer and (optional) plate

Fig.6



3.3 Installing main arm

Fig.7

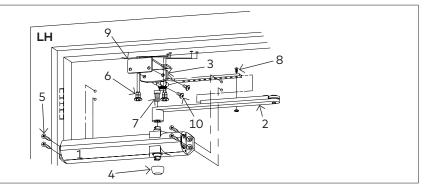


4 Instructions - parallel mount

4.1 Surface closer system

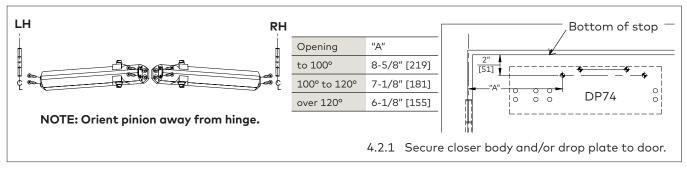
Fig.8

- 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



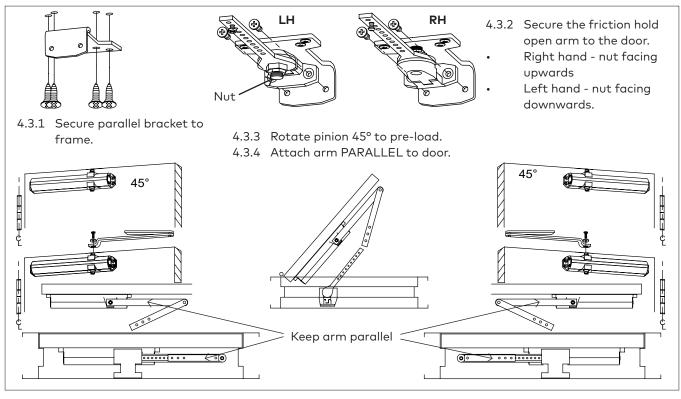
4.2 Installing the surface closer and (optional) drop plate

Fig.9



4.3 Installing main arm

Fig.10



5 Adjustments

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

A Do not back valve heads out beyond closer casting.

🗥 Check delayed action (DEL) function if supplied.

7414 meets 5lb interior barrier-free requirements. If necessary, adjust closer spring and test pull forces until proper forces are obtained.



\Lambda Maximum opening angle is 170°.

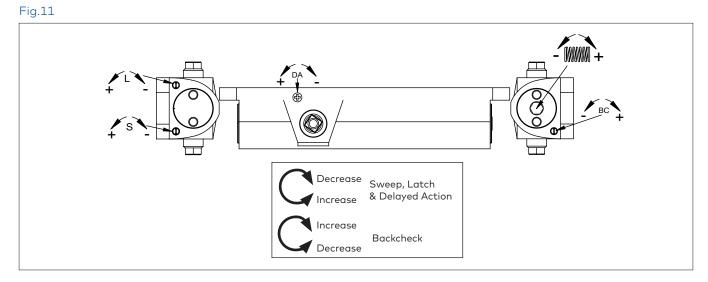


🔨 Door should close in 3 to 6 seconds from 90°.

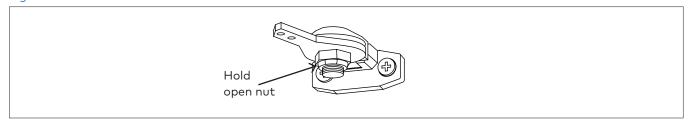
Do not close valves completely.

Ball bearing hinges and pivots should always be used.

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



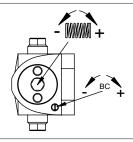
Adjust optional hold open 5.2 Fig.12



- 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.

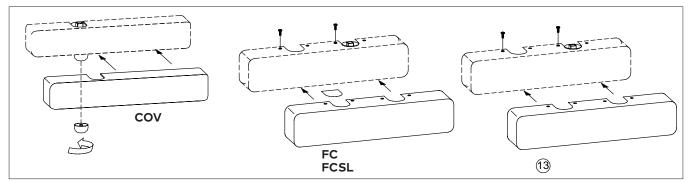
Adjust spring force 5.3 Fig.13



Regular and top jamb mounts								
	Closer size	Max door weight (lbs)	Door width		Full turns			
			Interior	Exterior				
	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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