8900 AF89P x MJ

Flat arm for parallel arm mount with mortised jamb bracket and drop plate (DP89)

Installation instructions

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Technical specifications 1

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°.

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.

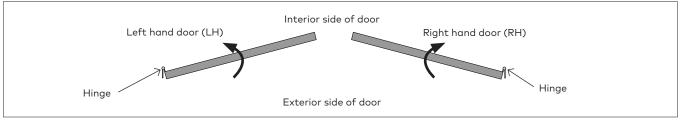
1.2 Tools recommended

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	

Handing the door 1.3



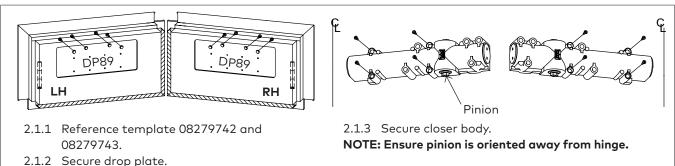


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2 Instructions - parallel mount

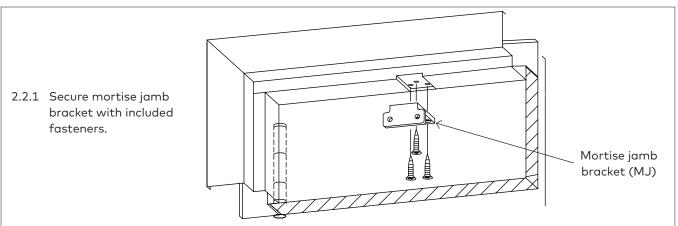
2.1 Installing drop plate and surface closer

Fig.2



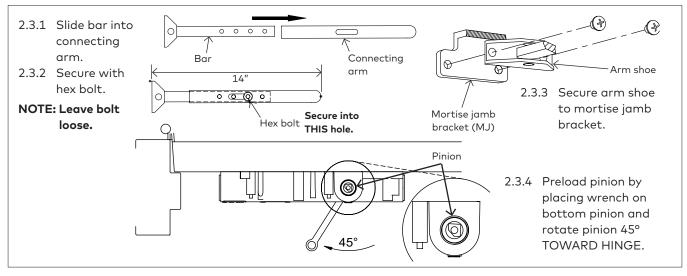
2.2 Installing mortise jamb bracket

Fig.3



2.3 Installing and securing main arm

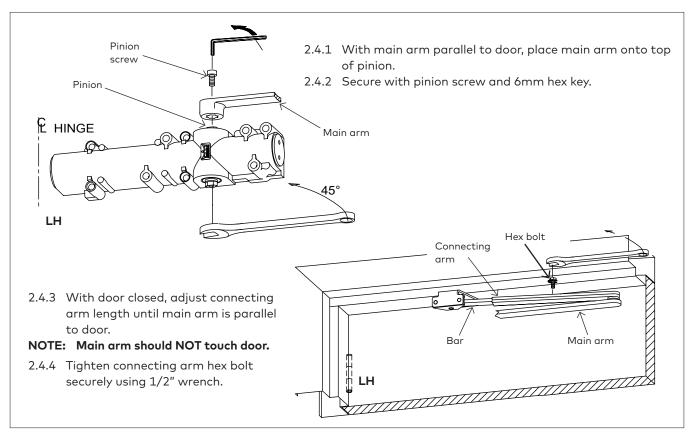
Fig.4



Main arm

2.4 Securing main arm (continued)

Fig.5



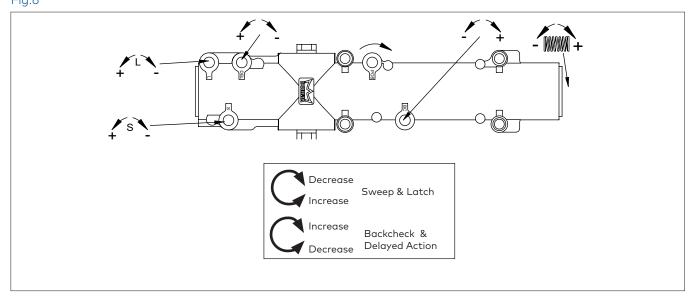
3 Adjustments

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

\Lambda Do not back valve heads out beyond closer casting.

- 🕂 Maximum opening angle is 180°.
- \bigwedge Door should close in 3 to 6 seconds from 90°.
- \Lambda Do not close valves completely.

3.1 Adjust closing speeds: sweep, latch, backcheck, delayed action Fig.6

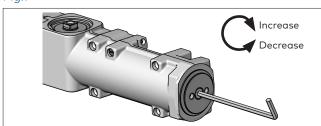


- 3.1.1 Adjust **closing sweep speed**: 90° to start of latch speed.
- Increase sweep speed: Turn valve counter-clockwise
- Decrease sweep speed: Turn valve clockwise.
- 3.1.2 Adjust **closing latch speed:** 15° to close.
- Increase latch speed: Turn valve counter-clockwise
- 3.1.3 Adjust opening backcheck: beginning at 180°.
- Increase resistance: Turn valve clockwise
- Decrease resistance: Turn valve counter-clockwise.
- 3.1.4 Adjust **closing delayed action:** angle 70° to start of sweep.
- Increase delayed action: Turn valve clockwise
- Decrease delayed action: Turn valve counter-clockwise

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3.2 Adjust spring force

Fig.7



8916 ONLY - Barrier free openings: Take an opening force reading from the pull on the door. If required, adjust the spring force to meet the barrier-free requirement.

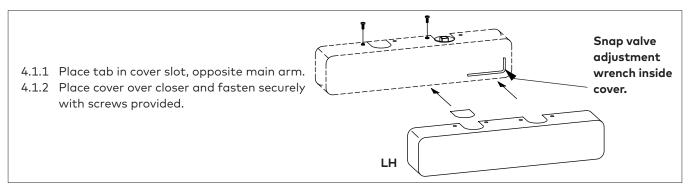
• Decrease force: turn counter-clockwise; 8 turns max.

• **Increase force:** turn clockwise; 14 turns max. Depending on opening conditions, a door adjusted to meet barrier-free forces may not have sufficient power to reliably close and latch the door.

Parallel mount								
	Closer size Max door weight (lbs)	Max door	Door width		Full turns			
		Interior	Exterior					
	3	100	2'6"		-12			
8916	4	125	3'	2'6"	0			
0710	5	150	3'6"	3'	+4			
	6	200	4'	3'6"	+12			
	5	150	3'6"	3'	-6			
8956	6	200	4'	3'6"	0			
	6+	250		4'	6+			

4 Install covers

Fig.8



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