EHD9000 AF90P x MJ

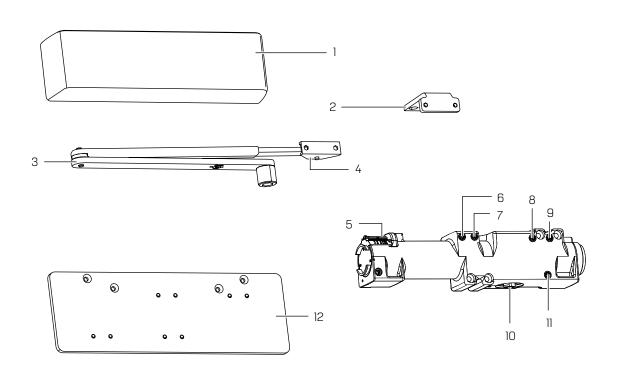
Flat form arm for parallel arm mount with mortised jamb bracket and optional drop plate (DP90)

Installation Instructions



OVERVIEW

Surface closer components



- 1 Full cover (standard)
- 5 Spring adjustment indicator
- 9 Sweep speed

- 2 Mortise jamb bracket
- 6 Backcheck

10 Pinion

- 3 Flat form arm
- 7 Advanced variable backcheck
- 11 Latch speed

4 Arm shoe

8 Delayed action

12 Drop plate (optional)

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1 Technical specifications

1.1 Overview



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.



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



Adjust spring size by hand only. Do NOT use a drill or power tools. Warranty will be void.

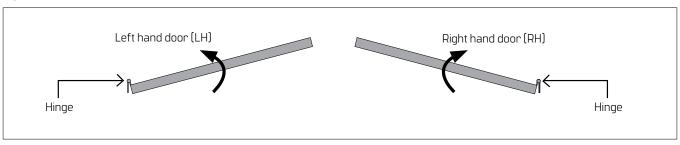
1.2 Tools recommended

Table 1

Drill bits:	#3 Phillips screwdriver
Metal: 13/64" or #7 drill bit; 1/4-20 tap	3/16" flat head screwdriver
Wood: 5/32" bit	Hex keys: 3mm, 5mm, 3/16"
1/2" box wrench	

1.3 Handing the door

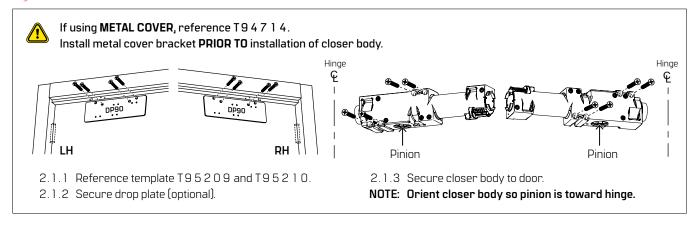
Fig. 1



2 Instructions - parallel mount

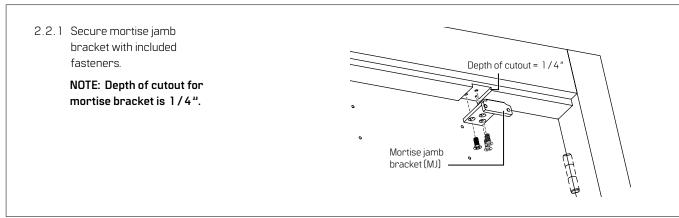
2.1 Installing drop plate (optional) and surface closer

Fig. 2



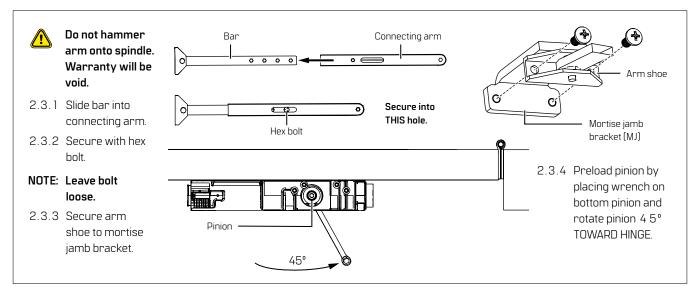
2.2 Installing mortise jamb bracket

Fig.3



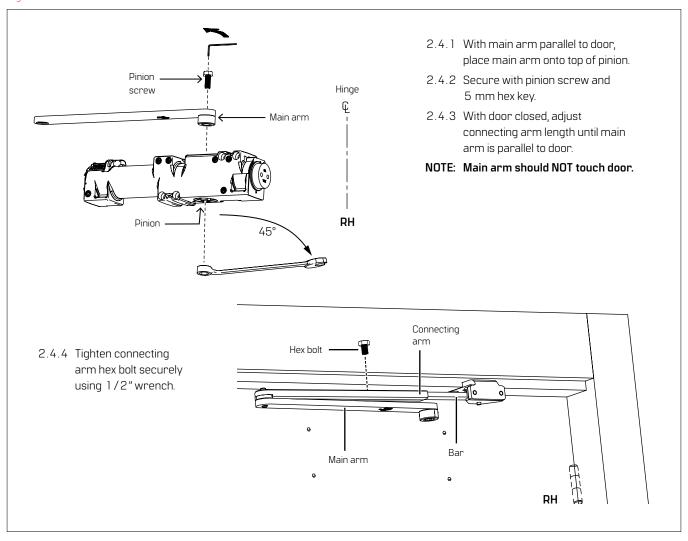
2.3 Installing and securing main arm

Fig. 4



2.4 Securing main arm (continued)

Fig.5



3 Adjustments



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



Do not back valve heads out beyond closer casting.



Maximum opening angle is 180°.



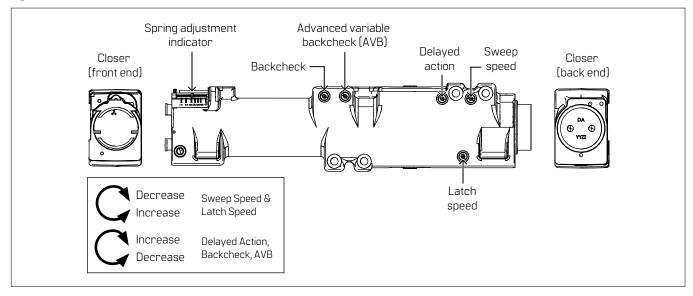
Door should close in 5 to 7 seconds from 90°.



Do not close valves completely.

3.1 Adjusting closing speeds: sweep, latch, backcheck, delayed action

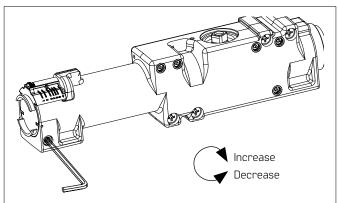
Fig. 6



- 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.
- Decrease latch speed: Turn valve clockwise.
- 3.1.3 Adjust opening backcheck: beginning at 8 0°.
- Increase resistance: Turn valve clockwise.
- Decrease resistance: Turn valve counter-clockwise.
- 3.1.4 Adjust closing delayed action: angle 180° to 60°...
- Increase delayed action: Turn valve clockwise.
- Decrease delayed action: Turn valve counter-clockwise.

3.2 Adjusting spring force

Fig.7



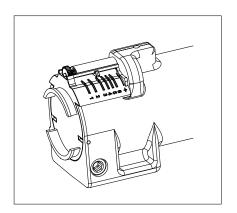


Adjust spring size by hand only. Do NOT use a drill or power tools. Warranty will be void.

NOTICE: EHD 90 16 is adjustable size 1 through 6. Supplied with a size 3.

NOTE: 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. Depending on opening conditions, a door adjusted to meet barrier-free forces may not have sufficient power to reliably close and latch the door.

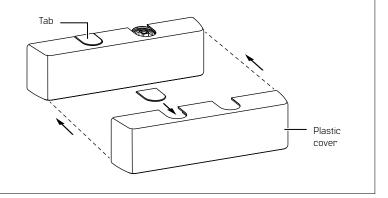


Parallel mount								
	Closer size	Max door weight (lbs)	Door width		F 11.			
			Interior	Exterior	Full turns			
	1	50	2'6"		-55			
	2	80	3,	2'6"	-30			
	3	100	3,6,	3,	0			
EHD9016	4	125	3'	2'6"	+19			
	5	150	3'6"	3'	+37			
	6	200	41	3'6"	+52			
	6+	200		41	+70			

4 Installing covers

Fig.8

- 4.1.1 Place tab in cover slot, opposite main arm.
- 4.1.2 Place cover over closer and snap into place.





For Complete Online Instructions Visit:

https://dhwsupport.dormakaba.com/hc/en-us For assistance or warranty information:

Call 1-800-392-5209 or visit

https://dhwsupport.dormakaba.com/hc/en-us





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