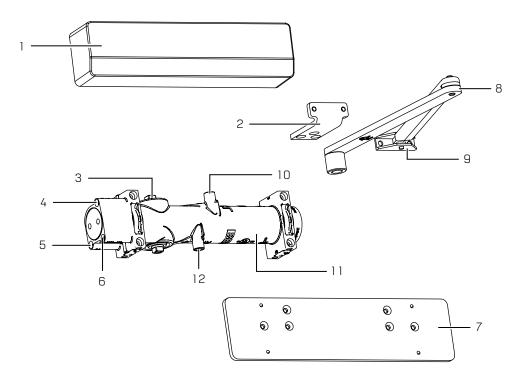
## HD8000 AF80 x MJ

Flat arm for regular arm mount with mortised jamb bracket and backplate (BP80) Installation Instructions



### **OVERVIEW**

## Surface closer components



- 1 Full cover (standard)
- 5 Delayed action adjustment
- 9 Arm/shoe

- 2 Mortise jamb bracket
- 6 Sweep speed adjustment
- 10 Backcheck adjustment

- 3 Pinion
- 7 Backplate (optional)
- 11 Closer body

- 4 Latch speed adjustment
- 8 Flat arm

12 Advanced variable backcheck

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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°.



Ensure the arrows on the plate face upwards.



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.

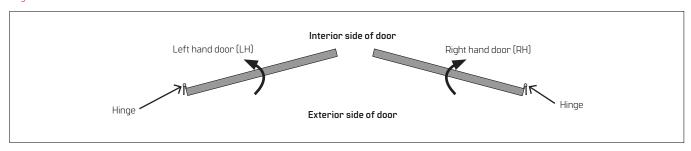
### 1.2 Tools recommended

#### Table 1

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

## 1.3 Handing the door

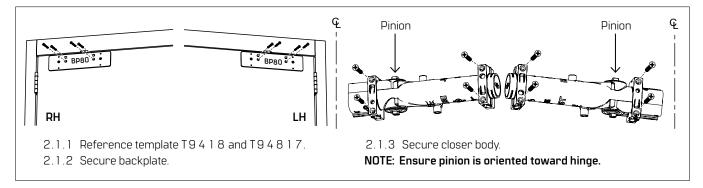
#### Fig. 1



# 2 Instructions - regular mount

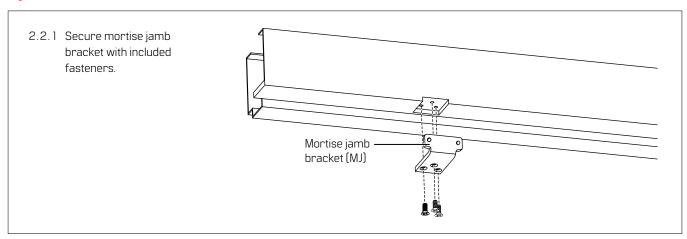
## 2.1 Installing backplate and surface closer

#### Fig. 2



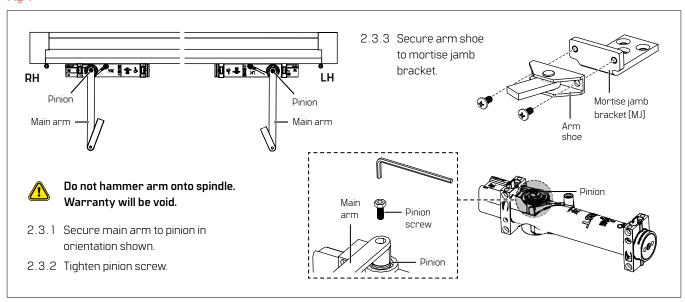
## 2.2 Installing mortise jamb bracket

#### Fig.3



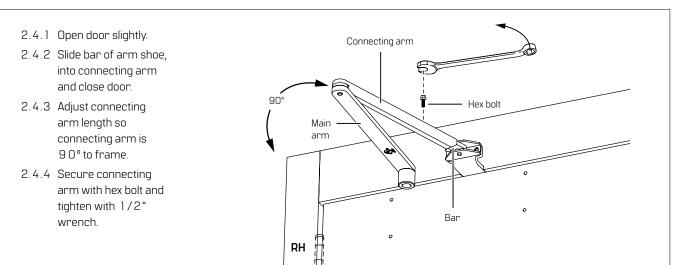
## 2.3 Installing and securing main arm

Fig. 4



### 2.4 Installing and securing connecting arm

#### 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°.



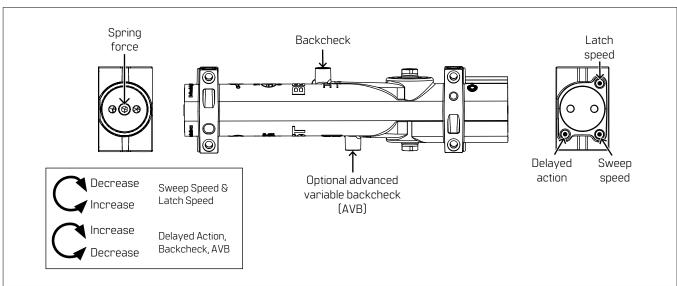
Door should close in 3 to 6 seconds from 90°.



Do not close valves completely.

## 3.1 Adjust closing speeds: sweep, latch, backcheck, delayed action

#### Fig.6

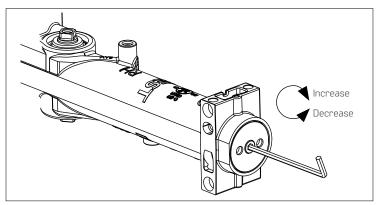


- 3.1.1 Adjust **closing sweep speed**: 90° to start of latch speed.
- Increase sweep speed: Turn valve counter-clockwise
- Decrease sweep speed: Turn valve clockwise.
- 3.1.2 Adjust closing latch speed: 15° to close.
- Increase latch speed: Turn valve counter-clockwise.
- Decrease latch speed: Turn valve clockwise.

- 3.1.3 Adjust **opening backcheck:** beginning at 80°.
- Increase resistance: Turn valve clockwise.
- Decrease resistance: Turn valve counter-clockwise.
- 3.1.4 Adjust **closing delayed action:** angle 180° to start of sweep.
- Increase delayed action: Turn valve clockwise.
- Decrease delayed action: Turn valve counter-clockwise.

## 3.2 Adjust spring force

### Fig.7



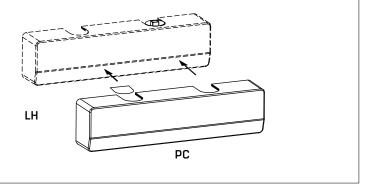
HD 8 0 1 6 - supplied with a size 4
HD 8 0 5 6 - supplied with a size 6
HD 8 0 1 6 ONLY - Barrier free openings: Take an opening force reading from the pull on the door. If required, adjust the spring force to meet the barrier-free requirement.
Depending on opening conditions, a door adjusted to meet barrier-free forces may not have sufficient power to reliably close and latch the door.

Regular mount								
	Cl	Max door weight (lbs)	Door width		F 11.			
	Closer size		Interior	Exterior	Full turns			
	2	100	2'6"		-20			
	3	125	3,	2'-6"	-12			
HD8016	4	150	3'6"	3,	0			
	5	200	4'	3'-6"	+4			
	6	250		4'	+12			
UDOOEG	5	200	4'	3'-6"	-6			
HD8056	6	250		4,	0			

# 4 Install 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 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