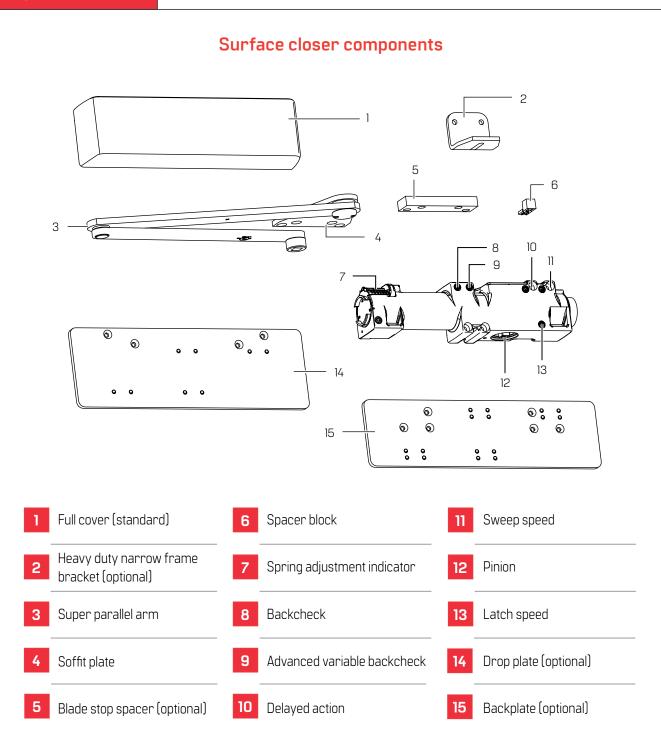
## EHD9000 SPA, SP-9

Surface applied closer super parallel arm mount 180° swing (to clear the hinge) Installation Instructions



## **OVERVIEW**



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### **Technical specifications** 1

#### 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.



<u>/!</u>\

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.

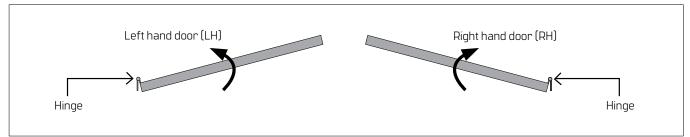
## 1.2 Tools recommended

#### Table 1

Drill bits:	#3 Phillips screwdriver		
<b>Metal:</b> 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			

#### Handing the door 1.3

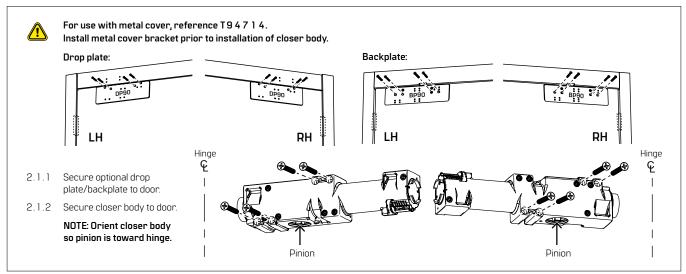
#### Fig. 1



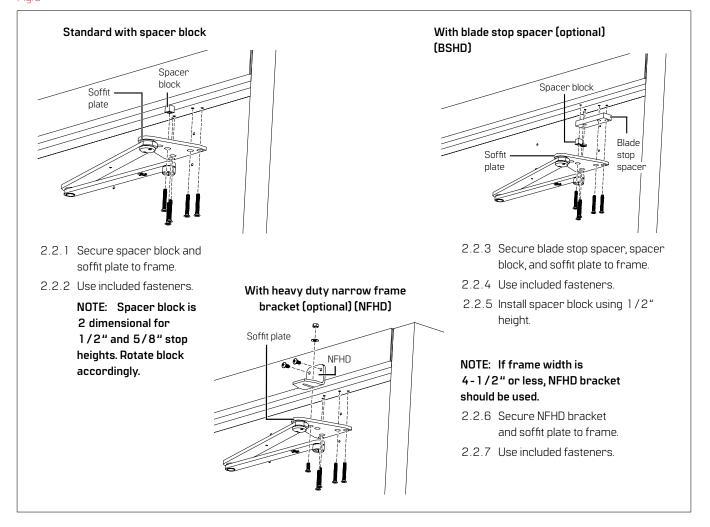
## 2 Instructions - parallel mount

2.1 Installing drop plate/backplate (optional) and surface closer

#### Fig.2

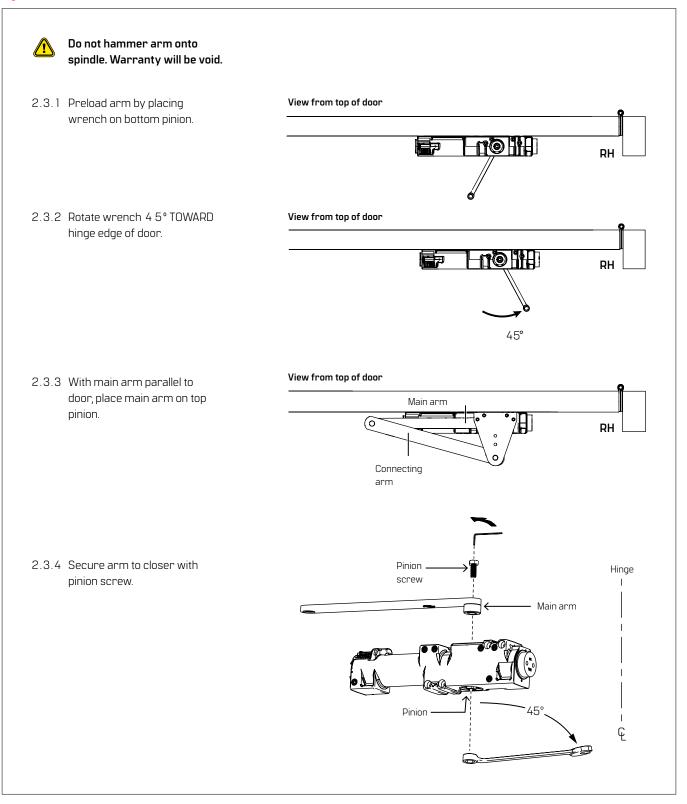


### 2.2 Securing soffit plate to frame: spacer block, blade stop spacer, or narrow frame bracket Fig.3



## 2.3 Securing main and connecting arms to closer

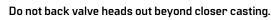
#### Fig. 4



# 3 Adjustments



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





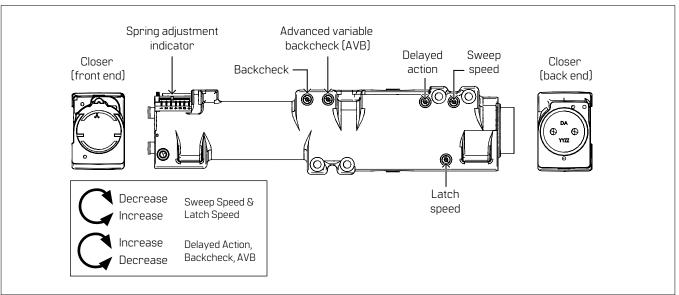
Maximum opening angle is 180°.

Door should close in 5 to 7 seconds from  $90^\circ$ .

Do not close valves completely.

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

### Fig.5

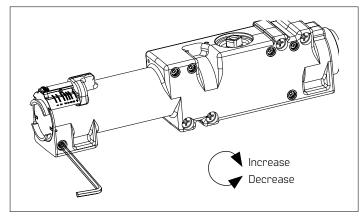


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- 3.1.1 Adjust closing sweep speed: 9 0° to start of latch speed.
- Increase sweep speed: Turn valve counter-clockwise.
- Decrease sweep speed: Turn valve clockwise.
- 3.1.2 Adjust closing latch speed: 1.5° to close.
- Increase latch speed: Turn valve 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. 6



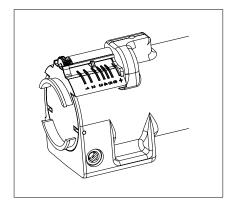


Adjust spring size by hand only. Do NOT use a drill or power tools. Warranty will be void.

NOTICE: EHD 9016 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.

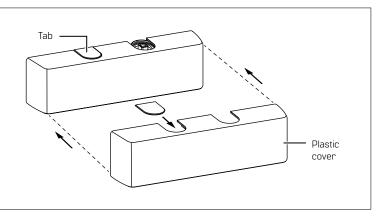


Parallel mount									
	Closer size	Max door	Door width		Full turns				
	LIOSET SIZE	weight (lbs)	Interior	Exterior	Fuil turns				
EHD 9 0 1 6	1	50	2'6"		-55				
	2	80	3'	2'6"	-30				
	3	100	3'6"	3'	0				
	4	125	3'	2'6"	+19				
	5	150	3'6"	3'	+37				
	6	200	4'	3'6"	+52				
	6+	200		4'	+70				

# 4 Installing covers

Fig.7

- 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



Español

Para ver las instrucciones en línea, visite: https://dhwsupport.dormakaba.com/hc/en-us Para recibir asistencia o información sobre la garantía: Llame al 1-800-392-5209 o visite https://dhwsupport.dormakaba.com/hc/en-us



Francais

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Pour obtenir des instructions complètes en ligne, consultez le site :