

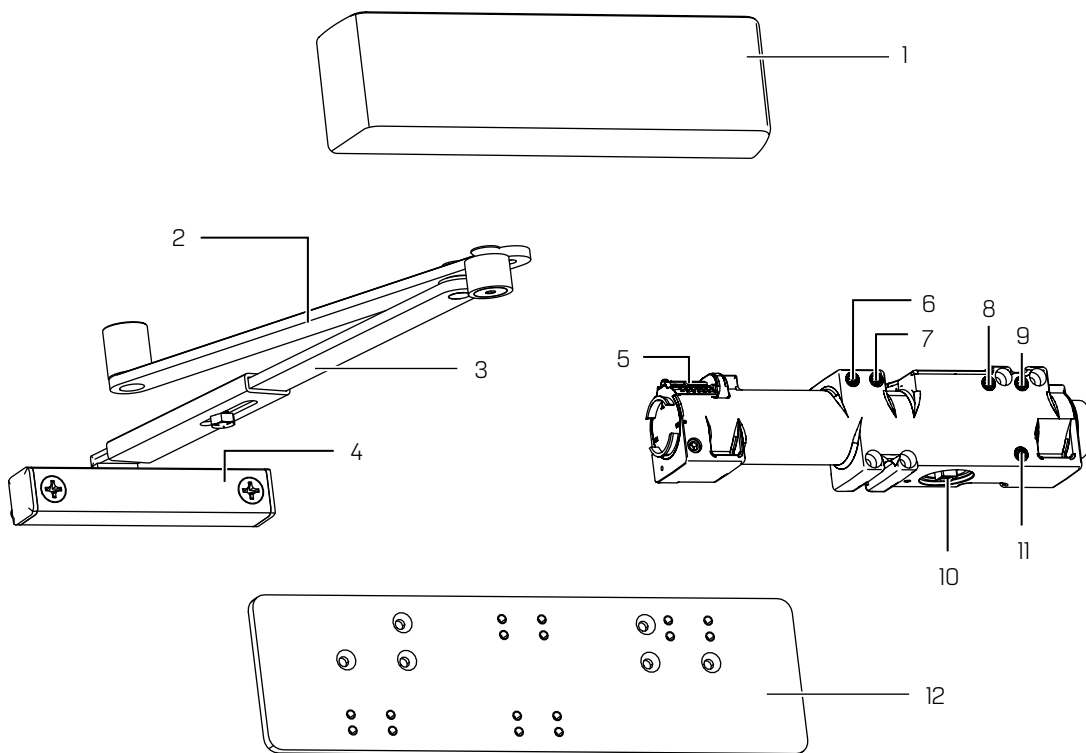
# EHD9000 SIS, SISJ, SISH, SISJH

Spring stop arm for regular and top jamb mount with optional hold open (SISH, SISJH)

## Installation Instructions

### OVERVIEW

#### Surface closer components



**1** Full cover (standard)

**2** Main arm

**3** Connecting arm

**4** Damper assembly

**5** Spring adjustment indicator

**6** Backcheck

**7** Advanced variable backcheck

**8** Delayed action

**9** Sweep speed

**10** Pinion

**11** Latch speed

**12** Backplate (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 6 - 1/2" reveal on top jamb mounts for 110° 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.



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.

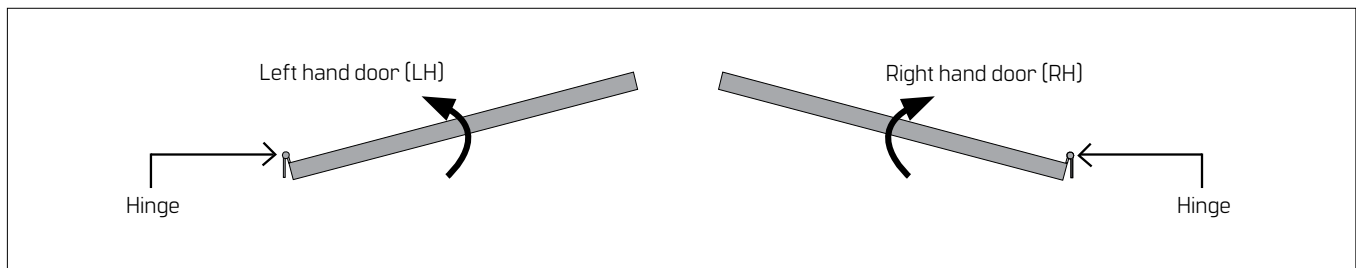
## 1.2 Tools recommended

Table 1

<b>Drill bits:</b>	#3 Phillips screwdriver
<b>Metal:</b> 1 3/64" or #7 drill bit; 1/4-20 tap	1/2" or 1 3mm box wrench
<b>Wood:</b> 5/32" bit	1 0" adjustable wrench
DPK: 1/8"	<b>Hex keys:</b> 3mm, 5mm, 3/1 6"
Sex nuts: 3/8"	1/2" box wrench

## 1.3 Handing the door


Fig. 1



## 2 Instructions - regular mount

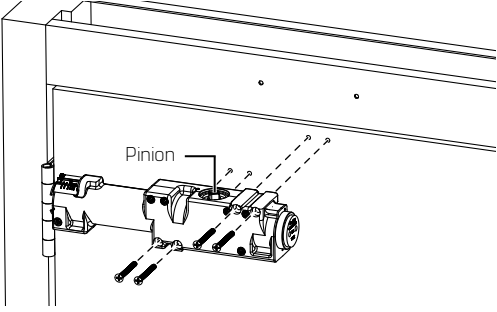
### 2.1 Installing surface closer

Fig.2

 If using **METAL COVER**, reference T9 4 7 1 4. Install metal cover bracket **PRIOR TO** installation of closer body.

2.1.1 Secure closer body to door using four 1/4-2 0" Phillips flat head or #1 4 wood screws (provided).

**NOTE:** Orient closer body so pinion is away from hinge.



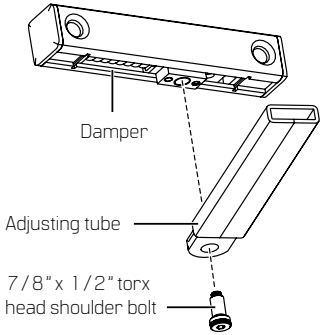
Pinion

Right hand (RH)

### 2.2 Securing damper assembly to frame (hold open)

Fig.3

2.2.1 Secure adjusting tube to damper using provided 7/8" x 1/2" torx head shoulder bolt.



Damper

Adjusting tube

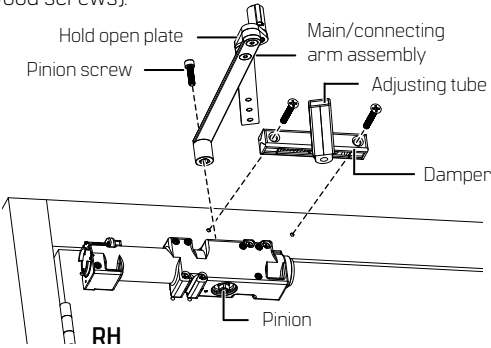
7/8" x 1/2" torx head shoulder bolt

**Hold open:**

2.2.2 Secure damper assembly to frame using two 5/16" x 2" flat head screw (#2 0 x 2" flat head wood screws).

2.2.3 Secure main arm to operator pinion.

2.2.4 Use provided pinion screw (M8 x 3 0 socket head cap screw).



Hold open plate

Pinion screw

Main/connecting arm assembly

Adjusting tube

Damper

RH

Pinion

**NOTE:** See 2.3 for non-hold open configuration

### 2.3 Disassembling hold open plate (non-hold open)

Fig.4

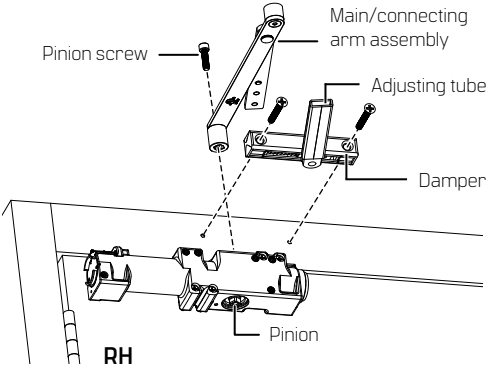
**Disassemble hold open plate:**

2.3.1 Remove both screws from bottom of plate using a 3/16" hex key.

2.3.2 Keeping all washers in place, flip plate over to orient as shown.

2.3.3 Re-secure plate with both screws.

**Non-hold open configuration:**



Pinion screw

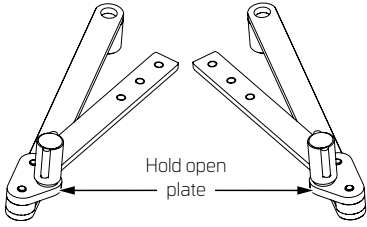
Main/connecting arm assembly

Adjusting tube

Damper

RH

Pinion



Hold open plate

**Right hand (RH)**  
Configuration plate pointing RIGHT.

**Left hand (LH)**  
Configuration plate pointing LEFT.

## 2.4 Securing main arm to closer

Fig.5

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

2.4.1 Slide end of connecting arm into end of damper assembly.

2.4.2 Secure connecting arm and damper assembly.

2.4.3 Use provided fastener [5/16-18x3/8" hex bolt].

# 3 Instructions - top jamb mount

## 3.1 Installing backplate (optional) and surface closer

Fig.6

**Installation with optional backplate [BP9 0]:**

3.1.1 Secure plate to frame using four # 1 2 Phillips flat head screws.

**NOTE: Backplate required for frames under 3" in height.**

3.1.2 Secure closer body to plate using four # 1 2-2 4 x 2" Phillips flat head screws provided with plate.

**NOTE: To install without backplate, secure closer body using four # 1/4-2 0" screws [# 1 4 wood screws].**

**NOTE: Orient closer body so pinion is away from hinge.**

## 3.2 Securing damper assembly to door

Fig.7

3.2.1 Secure adjusting tube to damper using provided 7/8" x 1/2" torx head shoulder bolt.

**Hold open:**

3.2.2 Secure damper assembly to door using two 5/16" x 2" flat head screws [#20x2" flat head wood screws] provided.

3.2.3 Secure main arm to operator pinion.

3.2.4 Use provided pinion screw (M8 x 3 0 socket head cap screw).

**NOTE: See 3.3 for non-hold open configuration**

### 3.3 Disassembling hold open plate (non-hold open)

Fig.8

**Disassemble hold open plate:**

3.3.1 Remove both screws from bottom of plate using a 3/16" hex key.

3.3.2 Keeping all washers in place, flip plate over to orient as shown.

3.3.3 Re-secure plate with both screws.

**Non-hold open configuration:**

**Right hand (RH)  
Configuration plate  
pointing RIGHT.**

**Left hand (LH)  
Configuration plate  
pointing LEFT.**

### 3.4 Securing main arm to closer

Fig.9

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

3.4.1 Slide end of connecting arm into end of damper assembly.

3.4.2 Secure connecting arm and damper assembly.

3.4.3 Use provided fastener [5/16-18x3/8" hex bolt].

## 4 Adjustments



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



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



**Do not back valve heads out beyond closer casting.**



**Do not close valves completely.**

### 4.1 Adjusting optional hold open

Fig.11

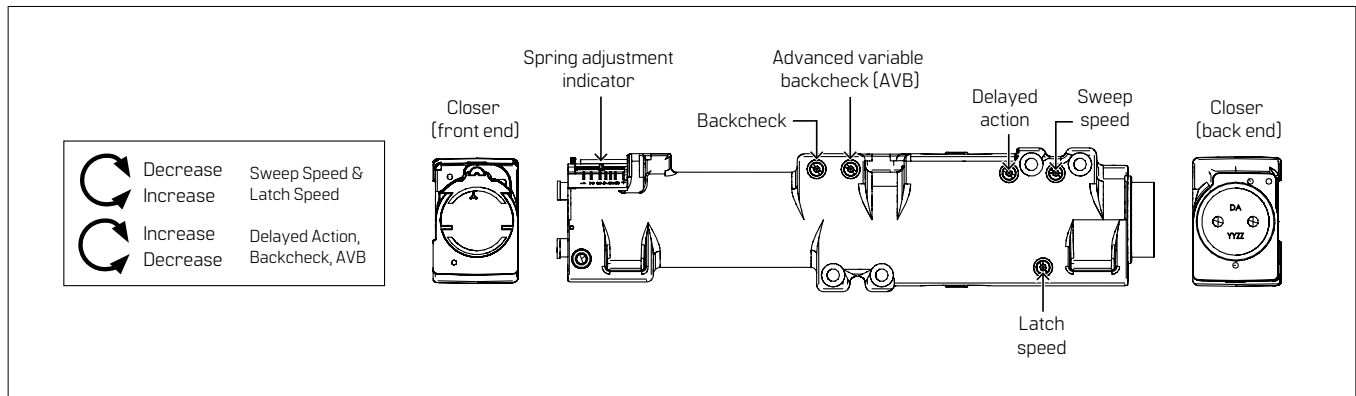
4.2.1 **Enabling or disabling hold open:**  
Twist hold open handle up or down to loosen or tighten, respectively, the hold open capacity.

4.2.2 **Engaging hold open:** Push door open until hold open ball connects with detent in handle.

4.2.3 **Disengaging hold open:** Pull door to pop hold open ball out of detent.

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

Fig.1 0

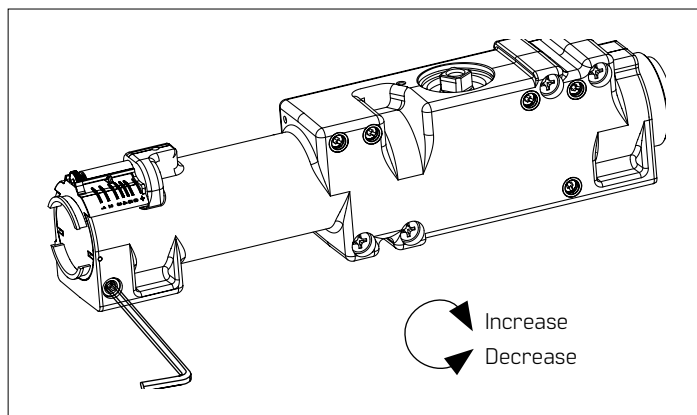


- 4.1.1 Adjust **closing sweep speed**: 9 0° to start of latch speed.
- Increase sweep speed: Turn valve counter-clockwise.
  - Decrease sweep speed: Turn valve clockwise.
- 4.1.2 Adjust **closing latch speed**: 1 5° to close.
- Increase latch speed: Turn valve counter-clockwise.
  - Decrease latch speed: Turn valve clockwise.

- 4.1.3 Adjust **opening backcheck**: beginning at 8 0°.
- Increase resistance: Turn valve clockwise.
  - Decrease resistance: Turn valve counter-clockwise.
- 4.1.4 Adjust **closing delayed action**: beginning at 6 0°.
- Increase delayed action: Turn valve clockwise.
  - Decrease delayed action: Turn valve counter-clockwise.

## 4.3 Adjusting spring force

Fig.1 2

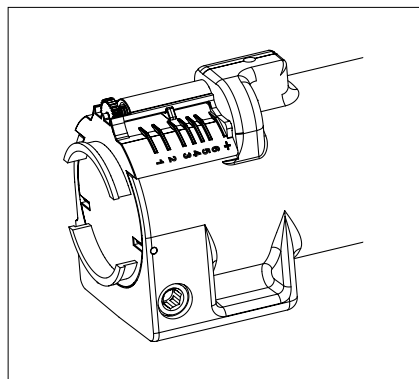


**Adjust spring size by hand only.**  
**Do NOT use a drill or power tools.**  
**Warranty will be void.**

**NOTICE: EHD9016 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.

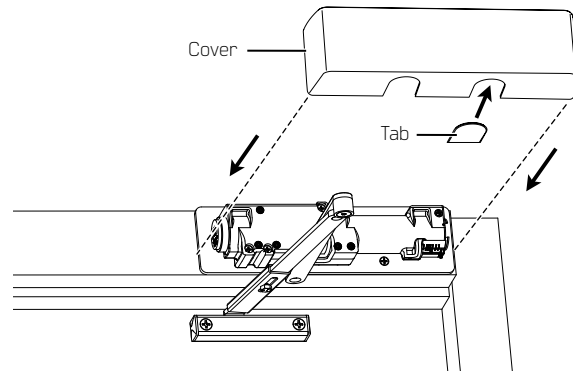


Regular and Top jamb mount					
	Closer size	Max door weight (lbs)	Door width		Full turns
			Interior	Exterior	
EHD9016	1	ADA	♿	----	-55
	2	100	2'6"	----	-30
	3	125	3'	2'6"	0
	4	150	3'6"	3'	+19
	5	200	4'	3'6"	+37
	6	250	----	4'	+52
	6+	250	----	4'	+70

# 5 Installing cover

Fig. 1 3

- 5.1.1 Place tab in cover slot, opposite main arm.
- 5.1.2 Snap cover over closer body.



English

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