

# 73 Series Overhead Concealed Closer

Model W73ER, with Emergency Release Hinge  
 Non-Hold Open and Hold Open, Wood Frame  
 Installation Instructions

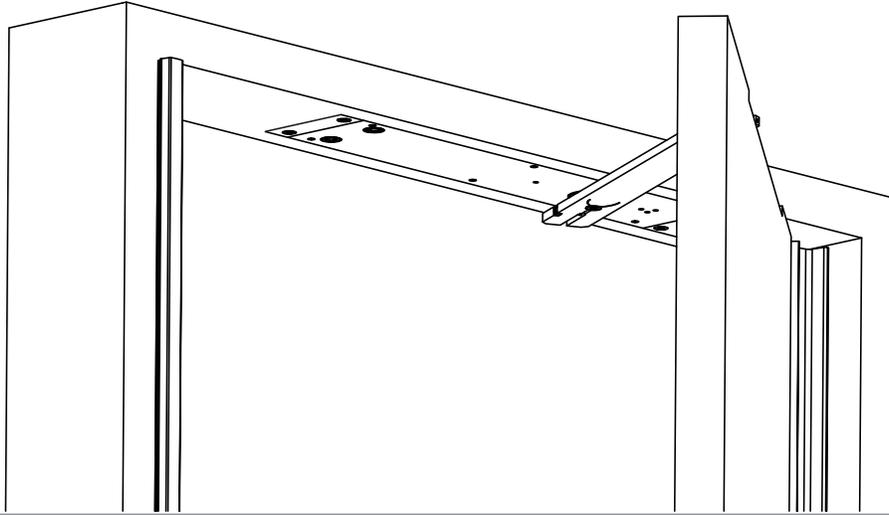


## ⚠️ WARNING

This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to: [www.P65warnings.ca.gov](http://www.P65warnings.ca.gov).

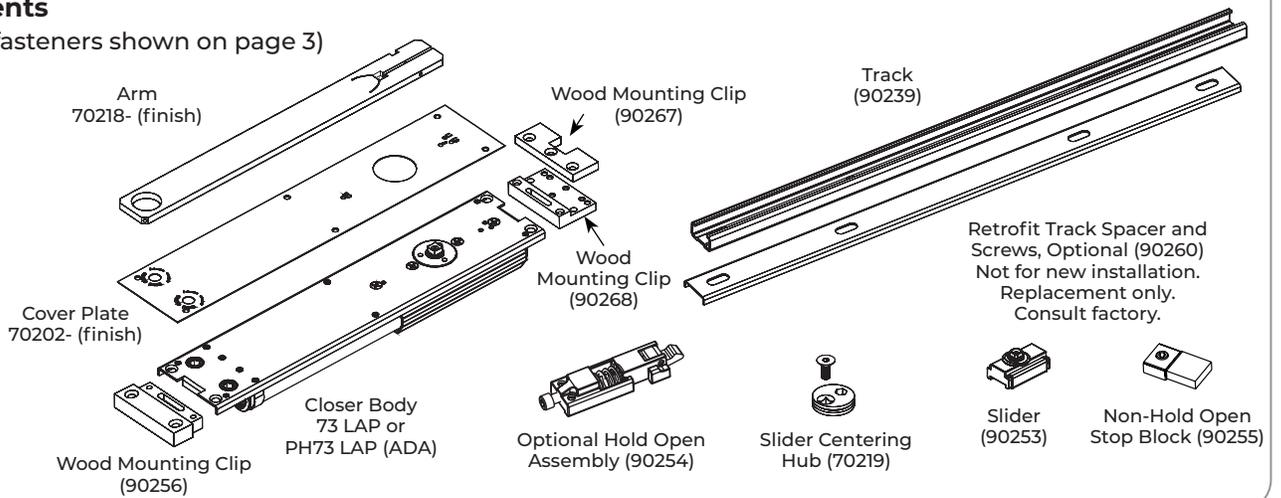
READ AND FOLLOW ALL INSTRUCTIONS.  
 SAVE THESE INSTRUCTIONS.

### Model W73ER, Emergency Release Hinge Hung



### Components

(Supplied fasteners shown on page 3)



### Tools Needed



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### IMPORTANT:

- An improperly installed or incorrectly adjusted door closer may cause property damage or personal injury and will void product warranty.
- To avoid personal injury, DO NOT DISASSEMBLE THIS DOOR CLOSER BODY.
- Door closers must be securely fastened to a prepared door and frame with fasteners provided.
- HOLD OPEN option not permitted to be installed in fire door assemblies.

### Before You Begin:

- All dimensions are given in inches (millimeters).
- A double swing continuous geared hinge, supplied by others, is required to hang door. Combining a separate emergency release stop, supplied by others, with this hinge is ideal. Refer to installation instructions with hinge and emergency release stop products to install.
- These instructions utilize Markar and Pemko Anti-Barricade Rescue Hardware, supplied separately, to illustrate an emergency release hinge installation. For other manufacturers' hinge and/or stop products, please consult Rixson Support for templating and installation modifications.
- Door and frame must be reinforced for attaching screws.

## Mounting Hardware

	Mounting Hardware	Door / Frame	Drill
	<b>Closer, Top Pivot and Bottom Pivot:</b> #14 x 1-1/2"	Wood	3/16" (4.76mm)
	<b>Closer, Top Pivot and Bottom Pivot:</b> 1/4-20 x 5/8"	Metal	Drill #7 (.201 dia. or 5.10mm) Tap 1/4-20
	<b>Track:</b> #14 x 1-1/4"	Aluminum or Wood	3/16" (4.76mm)
	<b>Track:</b> 1/4-20 x 7/16"	Hollow Metal	Drill #7 (.201 dia. or 5.10mm) Tap 1/4-20

# Model W73ER, with Emergency Release Hinge

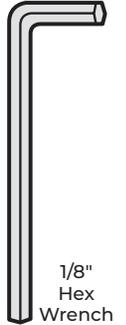
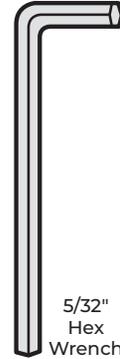
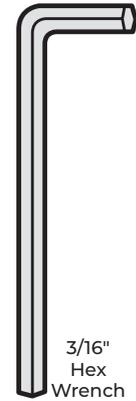
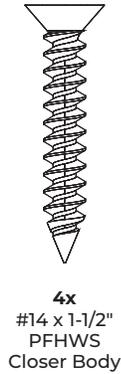
Non-Hold Open and Hold Open, Wood Frame

## Supplied Fasteners

### Cover Plate Screw Pack (90278-finish)



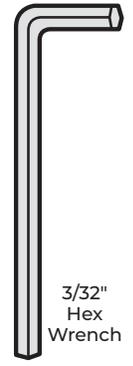
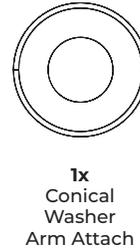
### Closer Screw Pack (90241)



### Closer Track Screw Kit (90242)



### Arm Screw Pack (70251-finish)



## Installation

### A. Prepare frame and door.

- Using templates supplied with double swing hinge and emergency release stop products, prepare door and frame. (Figure 1)

**NOTE:** These instructions illustrate the Markar DSH1000 hinge and the Pemko DSHP01 hinge with Pemko ERS or ERSMP stop.

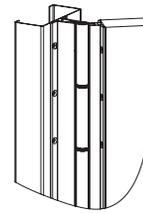
For comprehensive information about those products, visit [assaabloydooraccessories.us](http://assaabloydooraccessories.us). For other manufacturers' hinge and/or stop products, contact Norton Rixson Technical Product Support for templating and installation modifications.

- Using template provided with these instructions, prepare frame header and door for closer. (Figure 2)

- Confirm all cutout dimensions for closer.

**NOTE:** Closer is installed centered to closed door. Depending on application, it may not be centered in width of frame header.

Markar DSH1000  
Double Swing Hinge



Pemko Emergency  
Release Stop

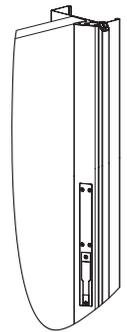
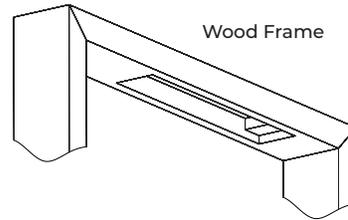


Figure 1

Wood Frame



Top of Door

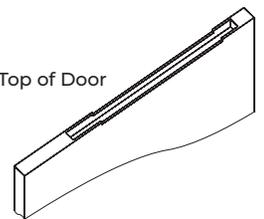


Figure 2

### B. Install wood mounting clips.

- Drill pilot holes into frame.
- Install clips with four (4) #14 x 1-1/2" wood screws. (Figure 3)

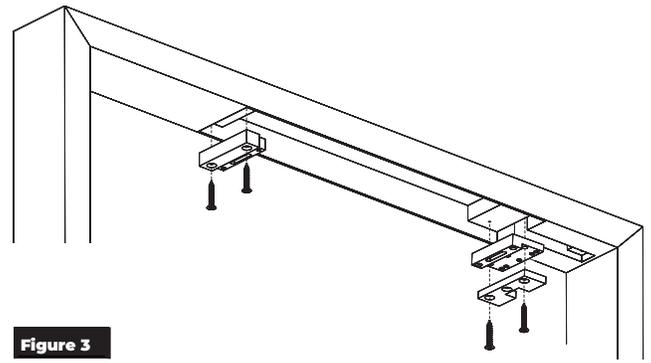
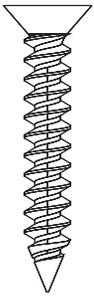


Figure 3

### C. Install hinge and emergency release stop.

- Verify frame is square and plumb.
- Using manufactures' installation instructions, mount hinge and frame stop supplied by others.
- Mount door to leave 3/32" (2) gap between top of door and frame header. (Figure 4)

**NOTE:** Door should swing freely.

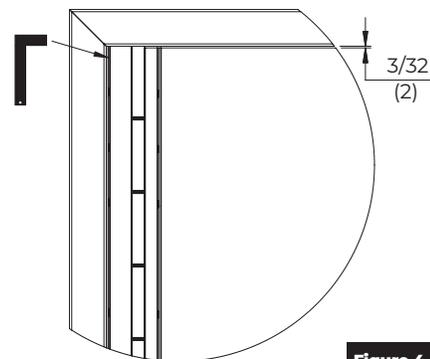


Figure 4

# Model W73ER, with Emergency Release Hinge

Non-Hold Open and Hold Open, Wood Frame

## Installation (cont.)

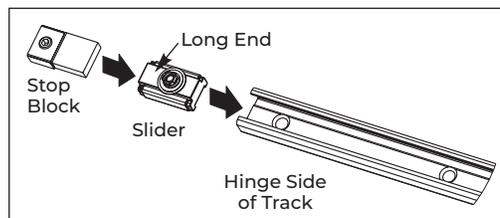
### D. Assemble track.

1. Slide track components into track. (Figure 5)

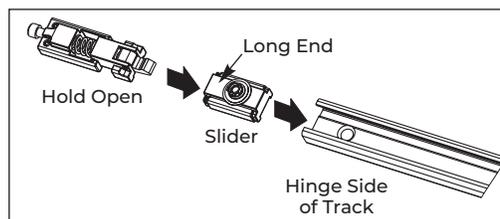
**NOTES:**

- All track components must be placed in track before installing track into door.
- Insert slider into track first.
- Stop block (or optional hold open) should be last component at hinge side of door.
- The longer end of slider should be pointed towards hinge side of door.

#### Non-Hold Open Track Components



#### Optional Hold Open Track Components



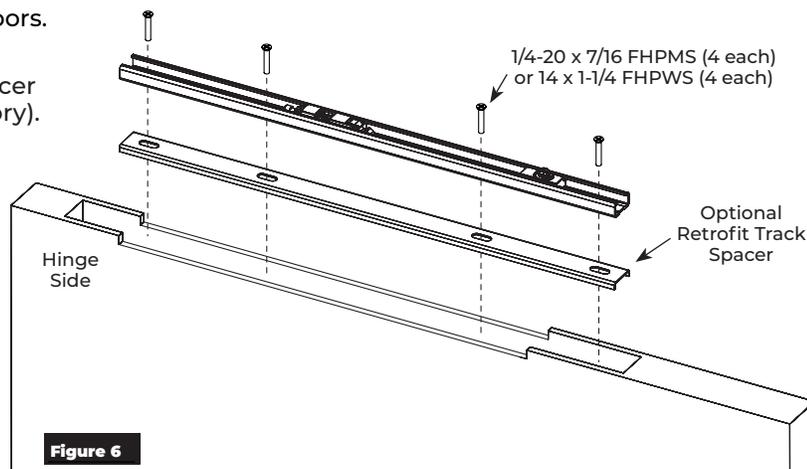
**Figure 5**

### E. Install track to door.



1. Make sure slider and track components are installed prior to installing track to door. See Step D.
2. Install track into top of door using either four (4) 1/4-20 x 7/16" machine screws for metal doors or four (4) #14 x 1-1/4" wood screws for wood doors. (Figure 6).

**NOTE:** If necessary, use optional retrofit spacer (replacement application only, consult factory).



**Figure 6**

## Installation (cont.)

### F. Install closer.



1. Install closer into wood mounting clips with four (4) 1/4-20 x 5/8" machine screws. (Figure 7)

**NOTE:** Mounting plate should be flush with frame rabbet.

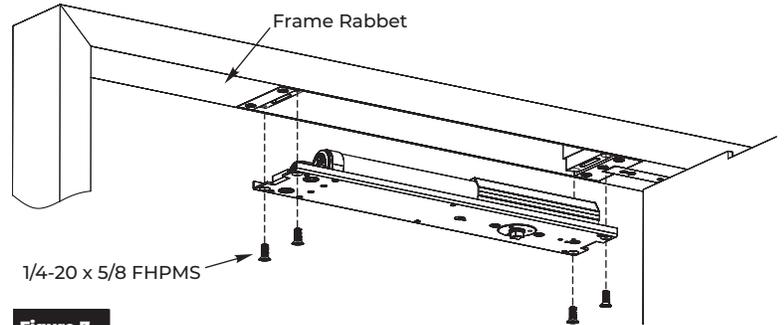


Figure 7

### G. Install cover plate.



1. Install cover plate to closer body with six (6) 6-32 x 1/4" machine screws. (Figure 8)

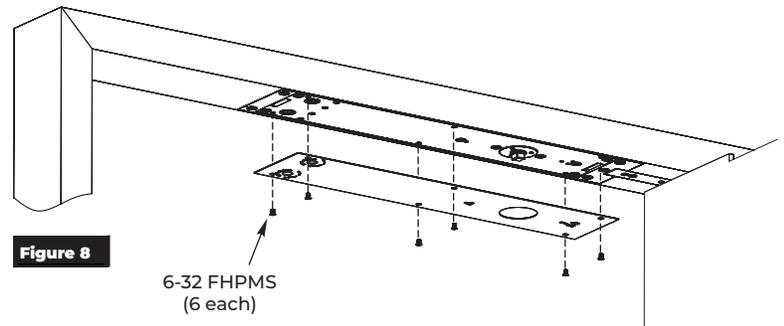


Figure 8

### H. Attach arm to closer.



1. Attach arm to closer shaft with 1/4-20 x 3/4" FH-Allen w/Nylon Patch screw and washer. Tighten securely. (Figure 9)

**NOTE:** Ensure countersink recess side of arm faces down.

2. Insert 10-24 x 1-1/2" socket head cap screw into arm and clamp arm tightly to pinion square. (Figure 9)

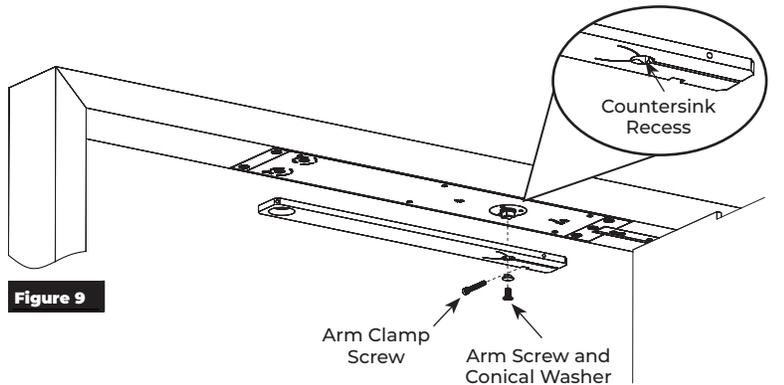
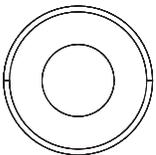


Figure 9

# Model W73ER, with Emergency Release Hinge

Non-Hold Open and Hold Open, Wood Frame

## Installation (cont.)

### I. Attach arm to track.

1. With provided 1/8" hex wrench, completely tighten latch and sweep valves by turning clockwise. This will allow for an easier closer-to-door connection. (Figure 10)



**CAUTION:** Arm will be under strong spring force to return if valves are not tightened completely closed.

2. Open door to about 45° then rotate arm over to door.

#### NOTES:

- With latch and sweep valves tightened, arm will maintain position.
- If door is opened beyond 45°, backcheck may need to be adjusted counter clockwise to easily rotate arm to door position.

3. Install slider centering hub through arm into slider. (Figure 11)

**NOTE:** Countersink recess should face up.

4. Align hub initially as shown and insert two (2) 10-24 x 3/8" adjustment set screws. Turn both set screws just enough to retain slider centering hub. Do not tighten firmly at this time.

(Figure 12)

**NOTE:** Align square shank of slider with square in centering hub for proper fitment.

5. Insert arm attach screw, 1/4-20 x 3/4" FH-Allen w/Nylon Patch, and tighten. (Figure 11)

6. Open latch and sweep valves to allow door to close and observe door and frame alignment. If door is not resting against emergency stop release device when closed, reopen door and use 5/16" hex wrench to rotate slider centering hub until door comes to rest against ERS device. (Figure 13)

**NOTE:** DO NOT fully open valves. Valves will leak.

7. When door is completely aligned, tighten both adjustment set screws.

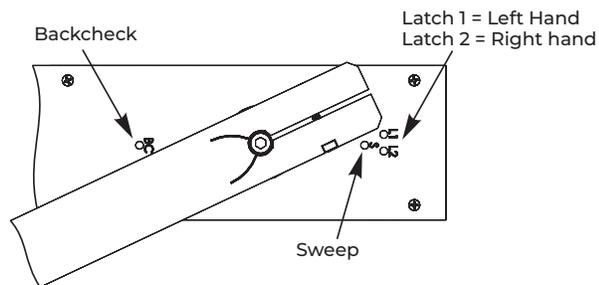


Figure 10

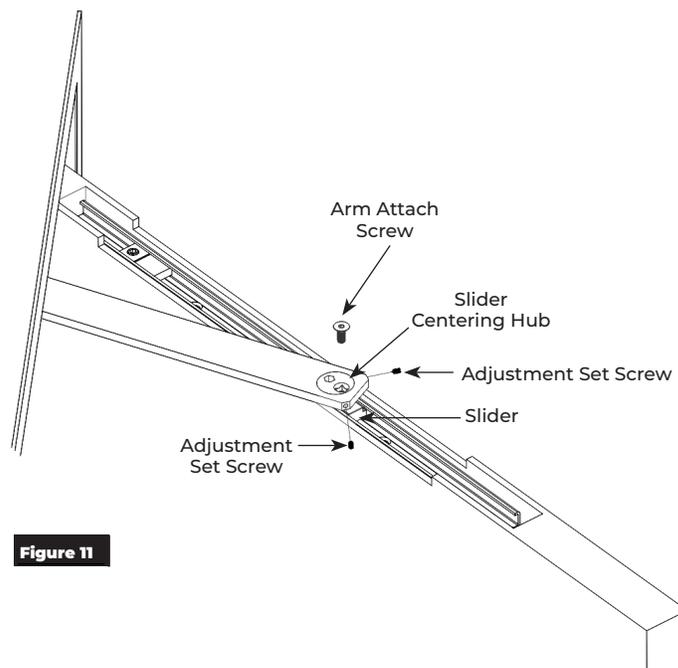


Figure 11

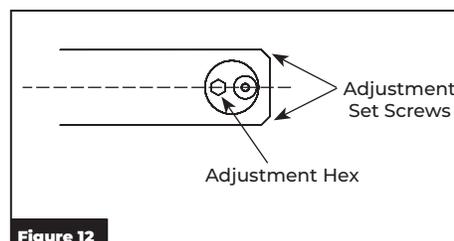


Figure 12

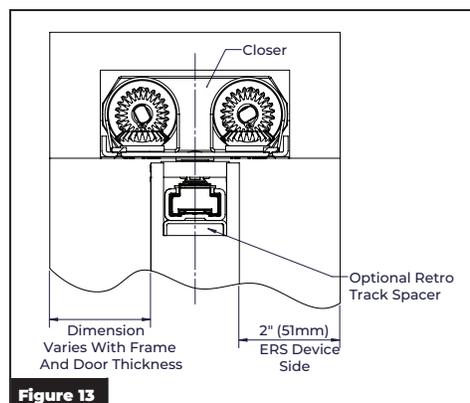


Figure 13

## Adjustments

### Speed Adjustment

Use provided 1/8" hex wrench to adjust sweep, latch and backcheck valves to control speed of door. (Figure 14)



**NEVER** completely close backcheck valve.  
**NEVER** use backcheck as a dead stop.  
**NEVER** fully open valves. Valves will leak.  
Do not use a power drill.  
Warranty will be void.

### Closing Force Adjustment

If additional force is needed, use 3/8" hex wrench to adjust closing force. (Figure 15)

Use spring adjustment screw that corresponds with hand of swing. (Figure 14)



Do not use a power drill.  
Warranty will be void.



All 73 Series closers are factory set to minimum force. Adjust closer as necessary for more force taking into consideration door size, weight, positive room pressure, etc.

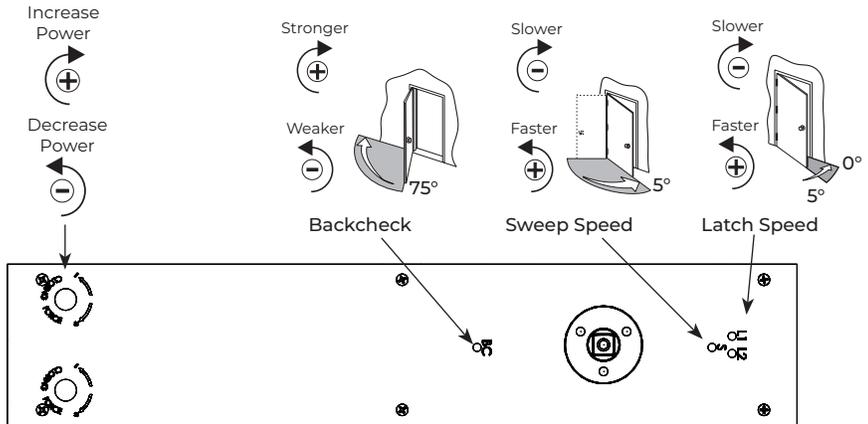


Figure 14

Spring Power Adjustment for Closing Force (Closer shipped at lowest setting)		
Model W73ER		
Closer Size	Description	Approx # of 360° Turns
1	2 - 3 lbs Closing Force	0
2	3 - 5 lbs Closing Force	15
3	5 - 8 lbs Closing Force	35
4	8+ lbs Closing Force	50

Figure 15

### Optional Hold Open Adjustment

**NOTE:** This option cannot be used on fire rated doors.

1. Insert locking tab of hold open assembly into track slider. (Figure 16)

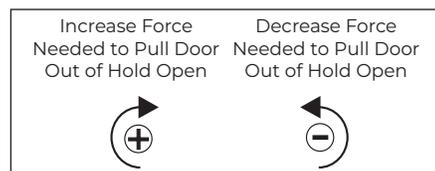
**NOTE:** Hold open assembly should be on hinge side of track slider.

2. Open door to desired hold open position.

3. Tighten hold open set screws to lock down hold open assembly. (Figure 16)

4. Pull door in closing direction to disengage hold open assembly and track slider.

5. Adjust hold open by turning adjustment screw with provided 3/16" hex wrench. (Figure 16)



Holding Force Adjustment Screw

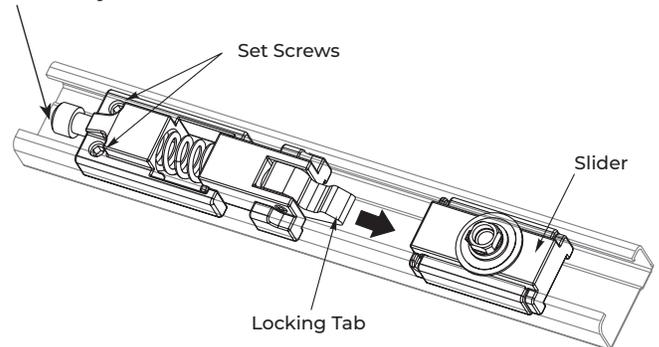


Figure 16

The Model W73ER Overhead Concealed Closer has now been installed.

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## Troubleshooting

Symptom	Cause	Remedy
Door won't latch	Spring tension not strong enough	Increase opening force. See "Adjustments" on page 8.
	Latch speed control not fast enough	Adjust latch speed valve. See "Adjustments" on page 8.
	Door hung on products other than center pivots	Send template for hanging means to factory. A new installation sheet is required. Closer will need to be relocated.
	Arm is not preloaded	See Step I. Attach Arm to Track
Door is too difficult to open	Spring tension is set too strong	Decrease opening force. See "Adjustments" on page 8.

Technical Product Support:  
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Approved 2025-10-07

# Model W73ER Overhead Concealed Closer Template With Emergency Release Hinge Wood Frame Pemko DSHP01 or Markar DSH1000

