8900 DS/DST/DSK X FTHD

Heavy duty parallel arm door saver with flush transom bracket

Installation instructions

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1 Technical specifications

1.1 Overview



Caution: 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 110°.



Hold open range is from 85° to 110° with optional hold open kit.



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.

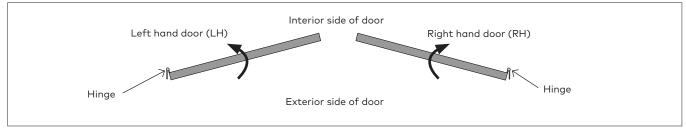
1.2 Tools recommended

Table 1

Drill bits:	#3 Phillips screwdriver		
Metal: 7/32″ drill bit; 1/4-20 tap	3/16" flat head screwdriver		
Wood: 3/8" and 5/32" bit	5mm hex key		
1/2" box wrench			

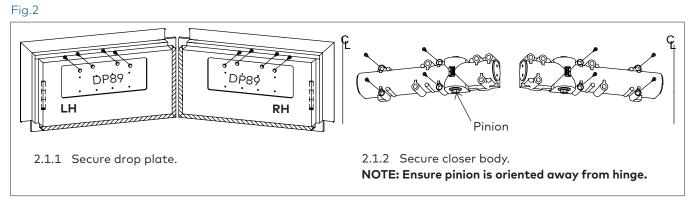
1.3 Handing the door

Fig.1

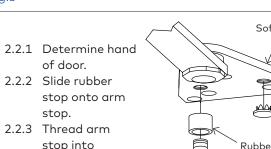


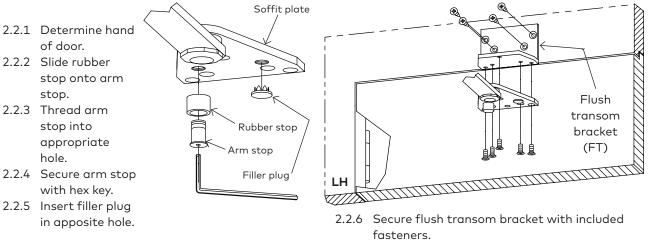
Instructions - parallel mount 2

Installing drop plate and surface closer 2.1



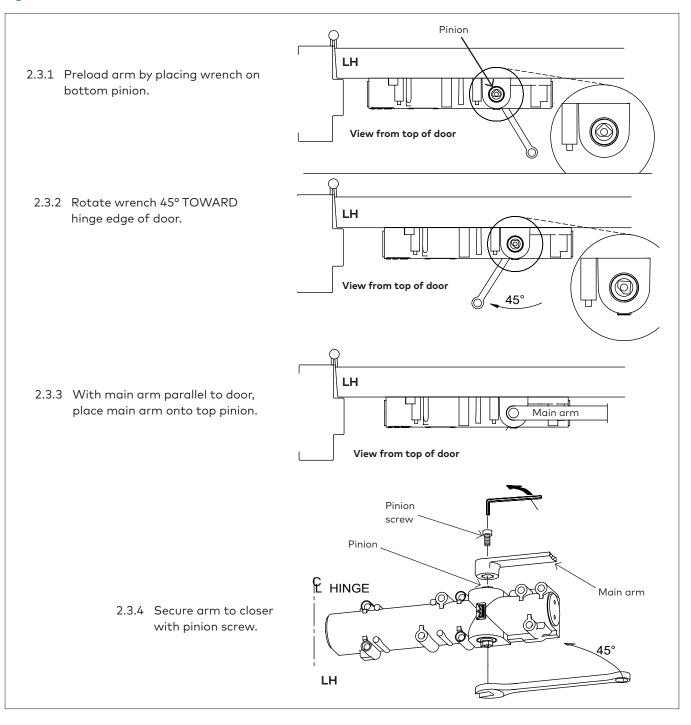
Installing flush transom bracket 2.2 Fig.3





2.3 Securing main arm

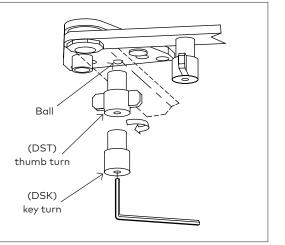
Fig.4



Optional hold open 2.4

Fig.5

- 2.4.1 Engage hold open: Open door until mechanism locks onto ball on plate.
- 2.4.2 Tighten hold open: Tighten with hex key until hold open force is desired.



Adjustments

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

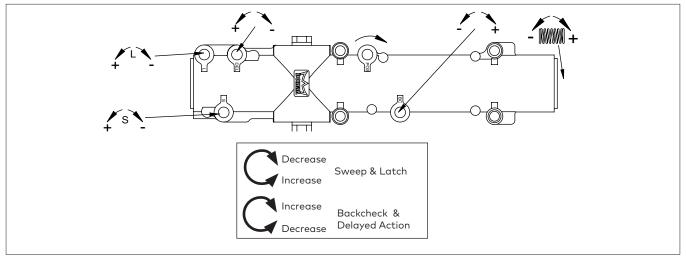
🕂 Do not back valve heads out beyond closer casting.



🕂 Maximum opening angle is 110°. 🔨 Door should close in 3 to 6 seconds from 90°. 🕂 Do not close valves completely.

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

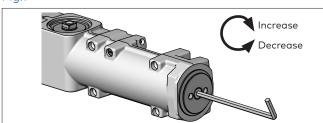
Fig.6



- Adjust **closing sweep speed**: 90° to start of latch speed. 3.1.1
- Increase sweep speed: Turn valve counter-clockwise
- Decrease sweep speed: Turn valve clockwise.
- Adjust **closing latch speed:** 15° to close. 3.1.2
- Increase latch speed: Turn valve counter-clockwise
- Adjust opening backcheck: beginning at 50°. 3.1.3
- Increase resistance: Turn valve clockwise
- Decrease resistance: Turn valve counter-clockwise.
- 3.1.4 Adjust closing delayed action: beginning at 110°.
- Increase delayed action: Turn valve clockwise
- Decrease delayed action: Turn valve counter-clockwise

3.2 Adjust spring force





8916 - supplied with a size 4 8956 - supplied with a size 6

8916 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.

Decrease force: turn counter-clockwise; 8 turns max.
Increase force: turn clockwise; 14 turns max.

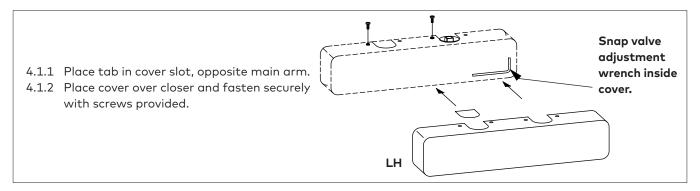
Depending on opening conditions, a door adjusted to meet barrier-free forces may not have sufficient power to reliably close and latch the door.

Parallel mount								
	Closer size	Max door weight (lbs)	Door width		Full turns			
			Interior	Exterior	Full turns			
	3	100	2'6"		-12			
8916	4	125	3'	2'6"	0			
8910	5	150	3'6"	3'	+4			
	6	200	4'	3'6"	+12			
	5	150	3'6"	3'	-6			
8956	6	200	4'	3'6"	0			
	6+	250		4'	+6			

Fig.8

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Install covers



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