

# 7400 SPA/SPAT

Super parallel arm mount and drop plate (DP74)

## Installation instructions

08279431 – 01-2021

| EN |

dormakaba 

# Table of contents

<b>1</b>	<b>Technical specifications</b>	<b>3</b>
1.1	Overview	3
1.2	Tools recommended	3
1.3	Handing the door	3
1.4	Closer system	3
<b>2</b>	<b>Instructions - parallel mount</b>	<b>4</b>
2.1	Installing drop plate and surface closer	4
2.2	Secure soffit plate to frame: spacer block, blade stop, or narrow frame bracket	4
2.3	Securing main arm to closer	5
<b>3</b>	<b>Adjustments</b>	<b>6</b>
3.1	Adjust closing speeds: sweep, latch, backcheck, delayed action	6
3.2	Adjust hold open (optional)	6
3.3	Adjust spring force	7
<b>4</b>	<b>Install covers</b>	<b>7</b>

# 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.

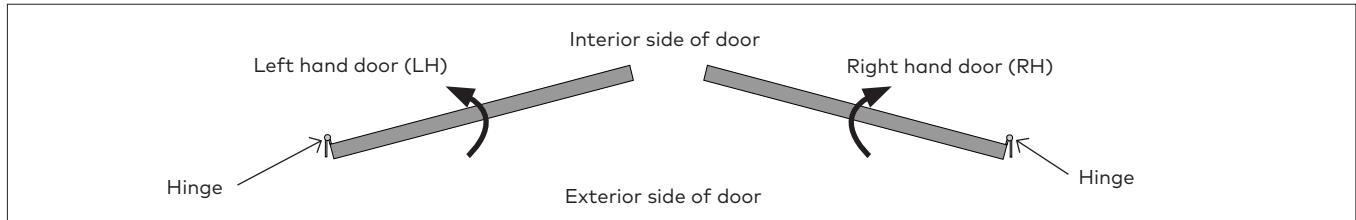
## 1.2 Tools recommended

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	1/8", 5mm hex key
1/2" box wrench	10" box wrench

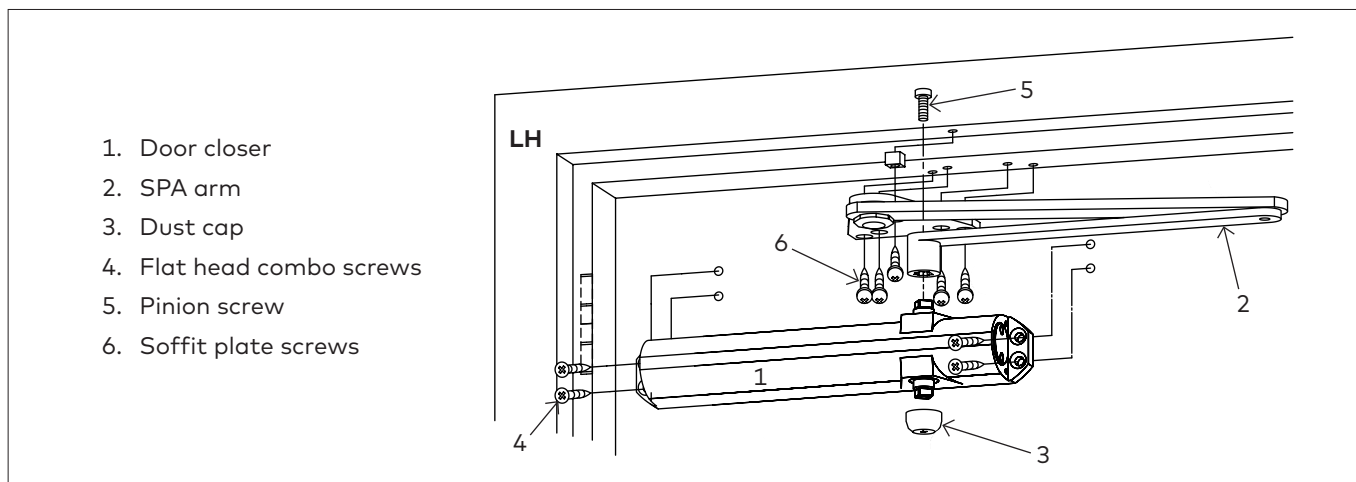
## 1.3 Handing the door

Fig.1



## 1.4 Closer system

Fig.2



1. Door closer
2. SPA arm
3. Dust cap
4. Flat head combo screws
5. Pinion screw
6. Soffit plate screws

# 2 Instructions - parallel mount

## 2.1 Installing drop plate and surface closer

Fig.3

2.1.1 Reference templates 08279432, 08279433.

2.1.2 Secure closer body to door.  
**NOTE: Ensure pinion is oriented away from hinge.**

## 2.2 Secure soffit plate to frame: spacer block, blade stop, or narrow frame bracket

Fig.4

**Standard with spacer block**

2.2.1 Secure spacer block and soffit plate to frame.

2.2.2 Use included fasteners.

**With blade stop (optional) (BSHD)**

2.2.1 Secure blade stop, spacer block, and soffit plate to frame.

2.2.2 Use included fasteners.

2.2.3 Install spacer block using 1/2" height.

**NOTE: If frame width is 4-1/2" or less, NFHD bracket should be used.**

**With heavy duty narrow frame bracket (optional) (NFHD)**

2.2.1 Secure NFHD bracket and soffit plate to frame.

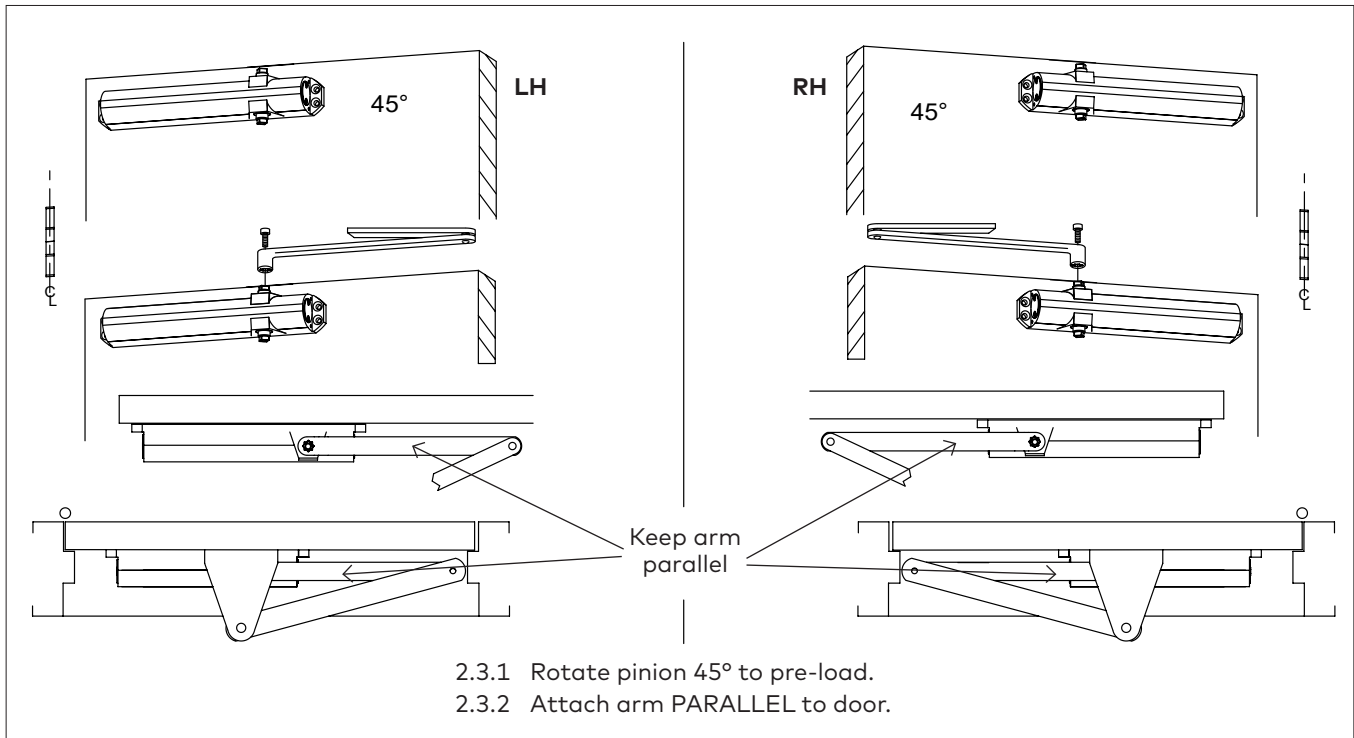
2.2.2 Use included fasteners.

Drill same as soffit plate





Face of stop or BSHD





## 2.3 Securing main arm to closer

Fig.5



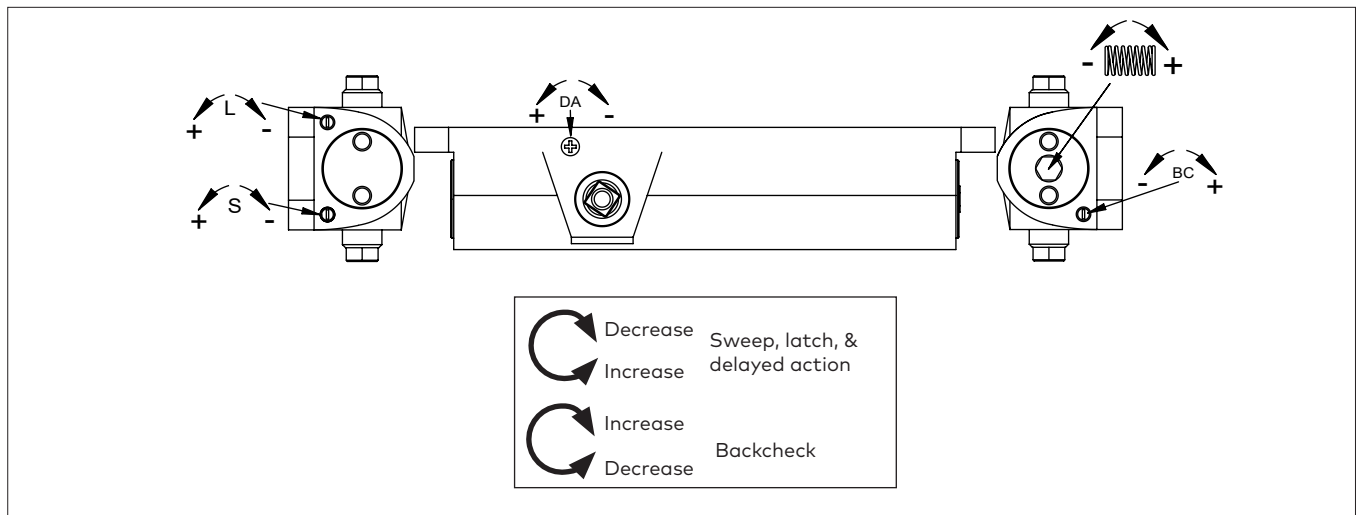
# 3 Adjustments

-  Confirm closer spring size prior to making any closing speed adjustments.
-  Do not back valve heads out beyond closer casting.
-  Check delayed action (DEL) function if supplied.
- 7414 meets 5lb interior barrier-free requirements.
-  If necessary, adjust closer spring and test pull forces until proper forces are obtained.

-  Maximum opening angle is 100° or 180°.
-  Door should close in 3 to 6 seconds from 90°.
-  Do not close valves completely.
-  Ball bearing hinges and pivots should always be used.

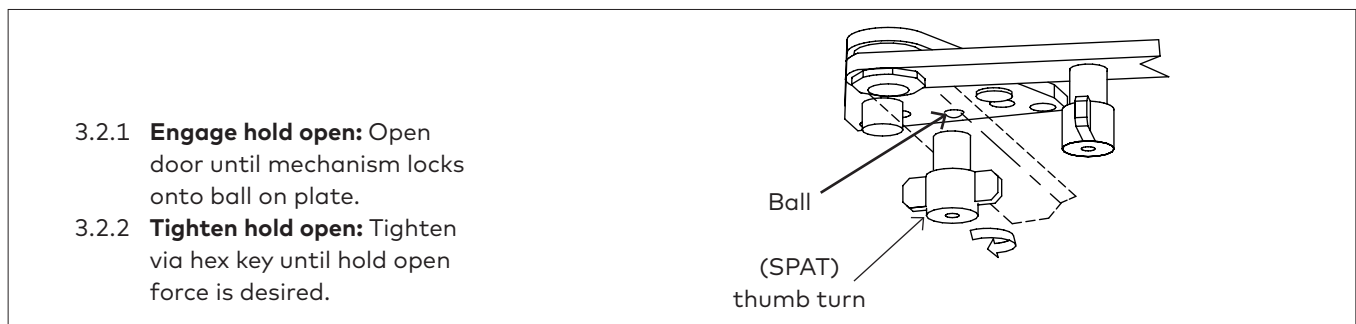
## 3.1 Adjust closing speeds: sweep, latch, backcheck, delayed action

Fig.6



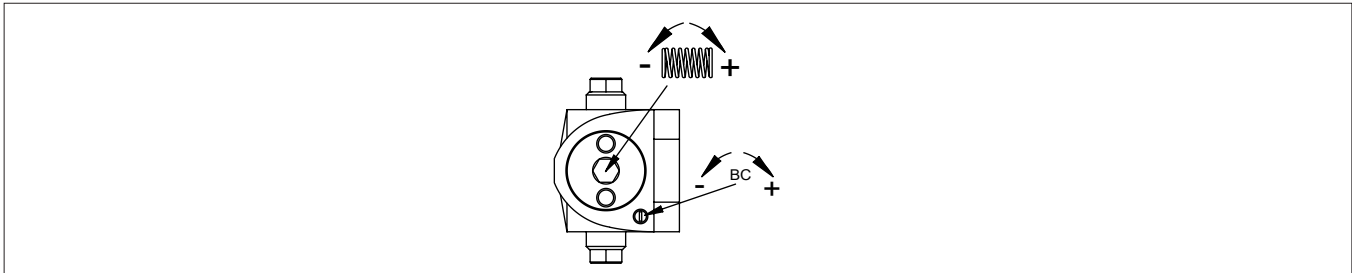
## 3.2 Adjust hold open (optional)

Fig.7



### 3.3 Adjust spring force

Fig.8



Parallel mount					
	Closer size	Max door weight (lbs)	Door width		Full turns
			Interior	Exterior	
7414	3	100	2'-6"	---	0
	4	125	3'	2'6"	+8
	5	150	3'6"	3'	+16
	6	200	4'	3'6"	+24

## 4 Install covers

Fig.9

