

# BTS75V/D, 75V BF/D, 80/D

Package D

3/4" offset hung, single acting

## Installation instructions

08076344 – 02-2021

| EN |

dormakaba 

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# 1 Installation

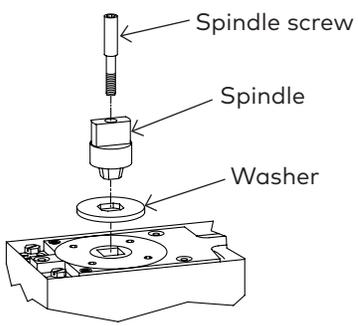
## 1.1 Attach spindle and install closer

Fig.1

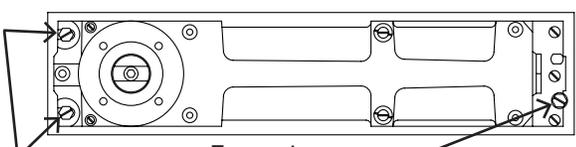
1.1.1 Slide washer over tapered square end of spindle until fully seated in groove.

1.1.2 Fasten spindle with spindle screw provided.

1.1.3 Tighten securely with 5mm hex key.

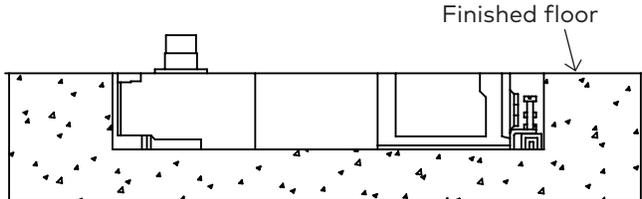


**CRITICAL:  
WASHER MUST BE INSTALLED**



1.1.4 Center closer in cement case.

1.1.5 Tighten fastening screws.



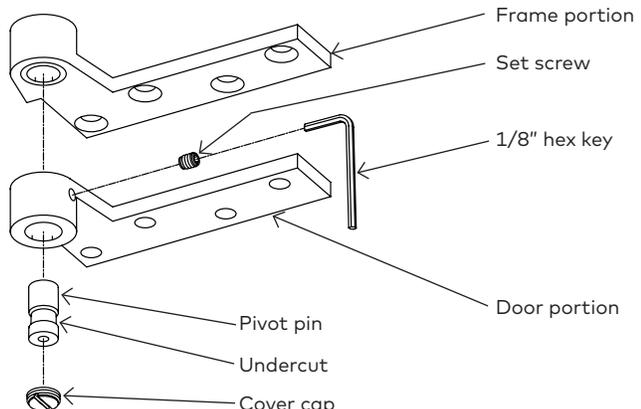
NOTE: Top of cement case must be flush with finished floor.  
NOTE: Cement case must be level and installed parallel to frame.  
NOTE: Spindle center line must be accurately located.  
NOTE: Grout cement case in place.

## 1.2 Install top pivot

Fig.2

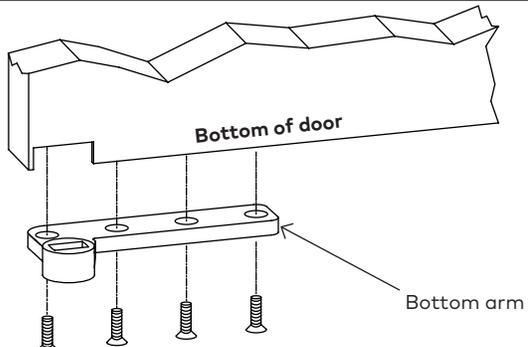
1.2.1 Remove set screw, cover cap and pivot pin.

1.2.2 Install top pivot.



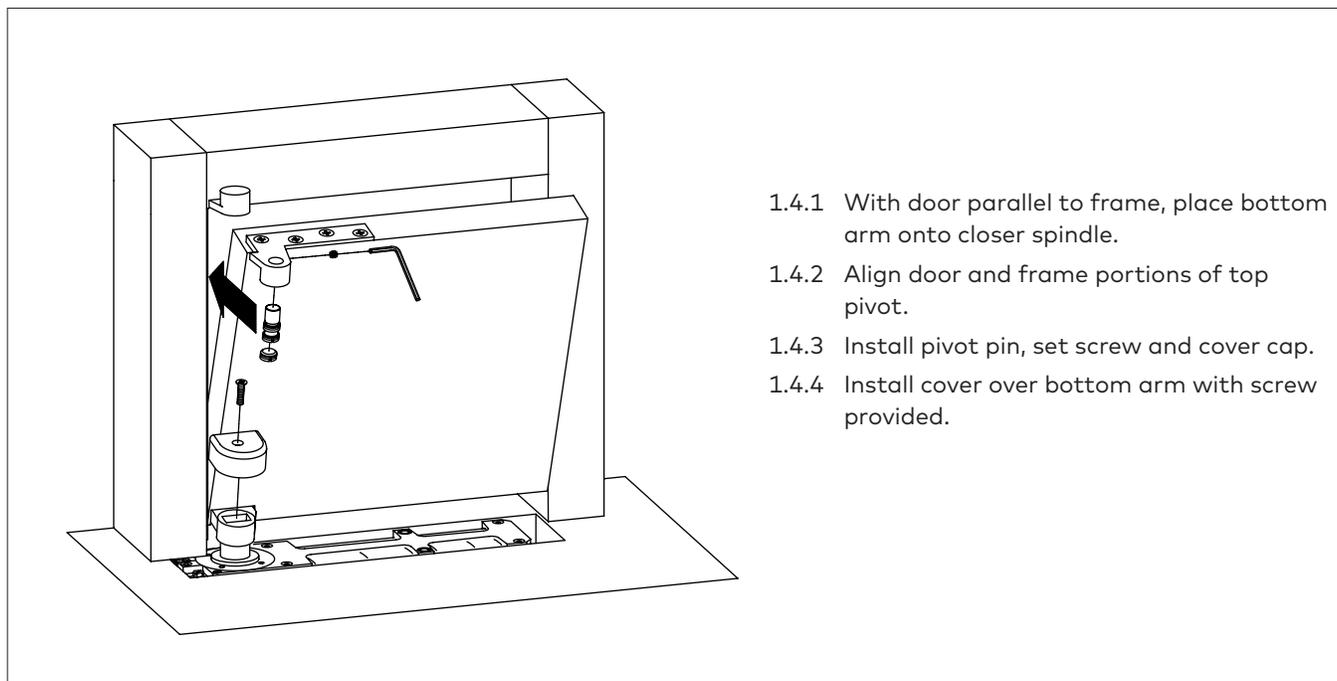
## 1.3 Install bottom arm in bottom of door (75323)

Fig.3



## 1.4 Install the door

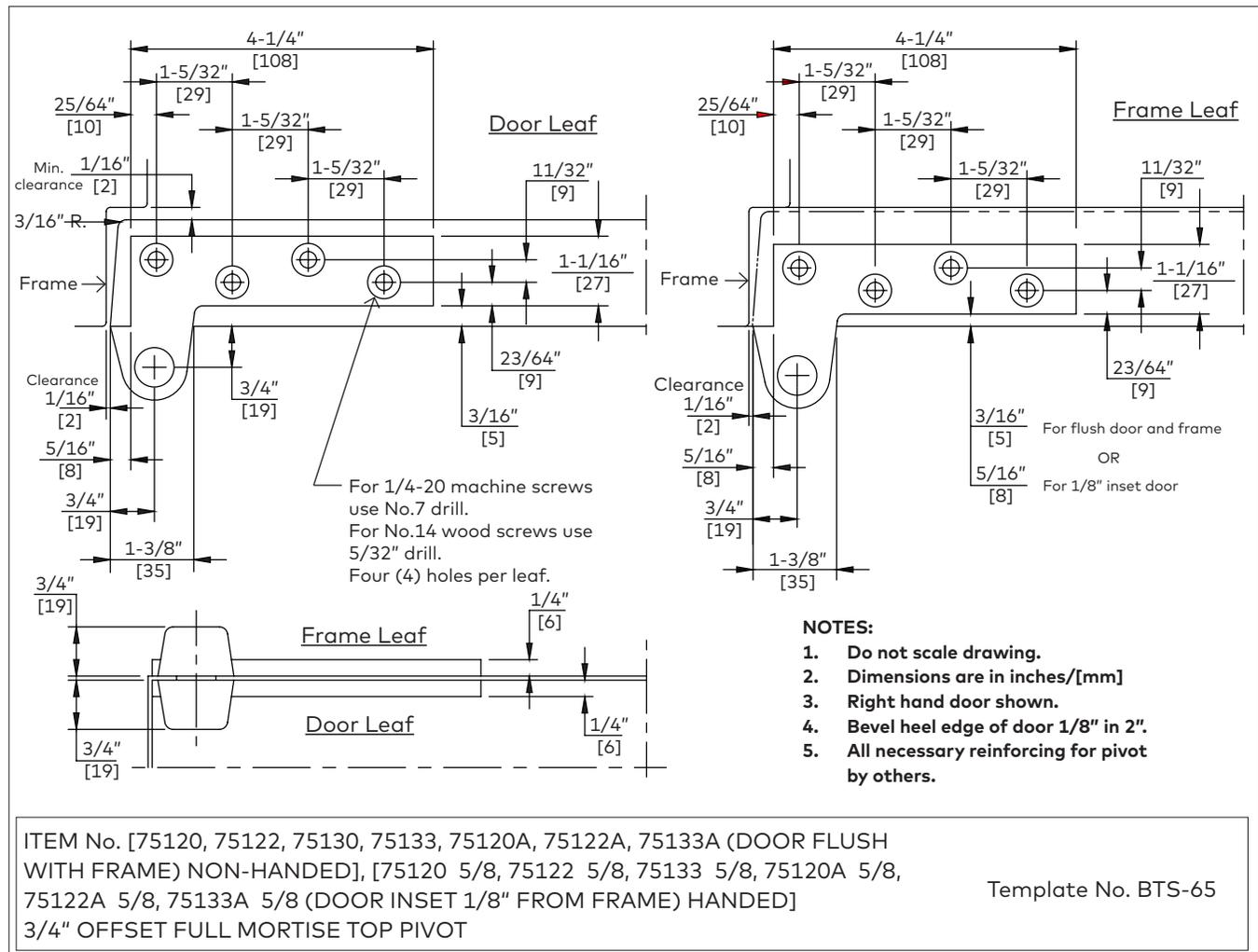
Fig.4



# 2 Templates

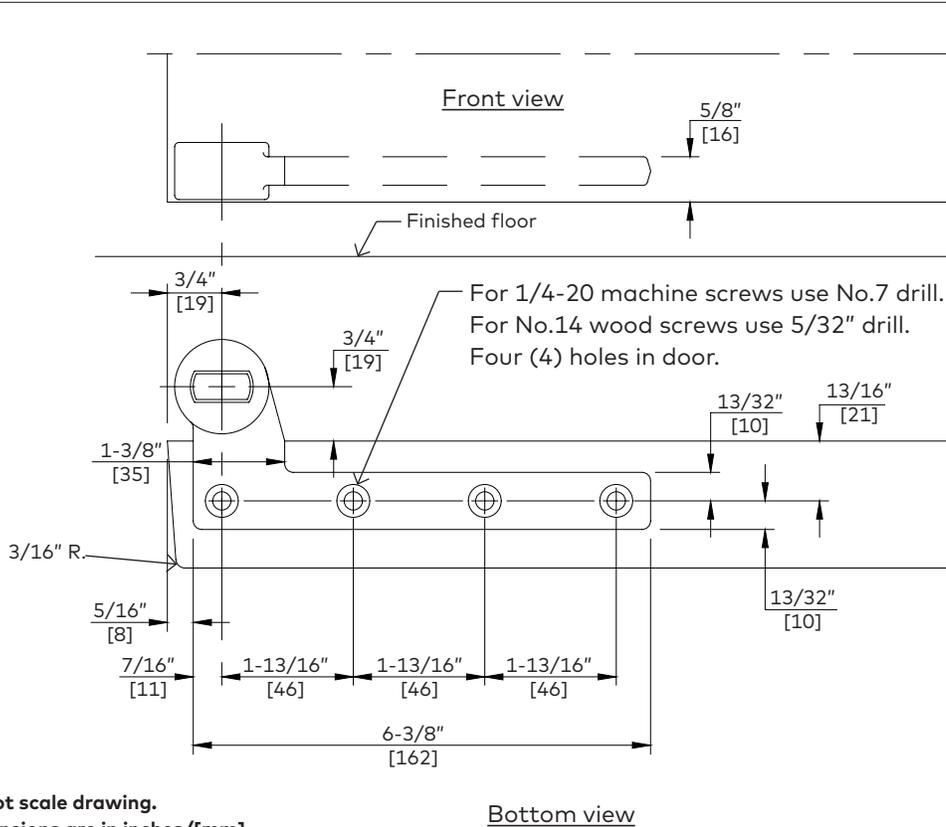
## 2.1 Top pivot template

Fig.5



## 2.2 Bottom arm (75323) template

Fig.6

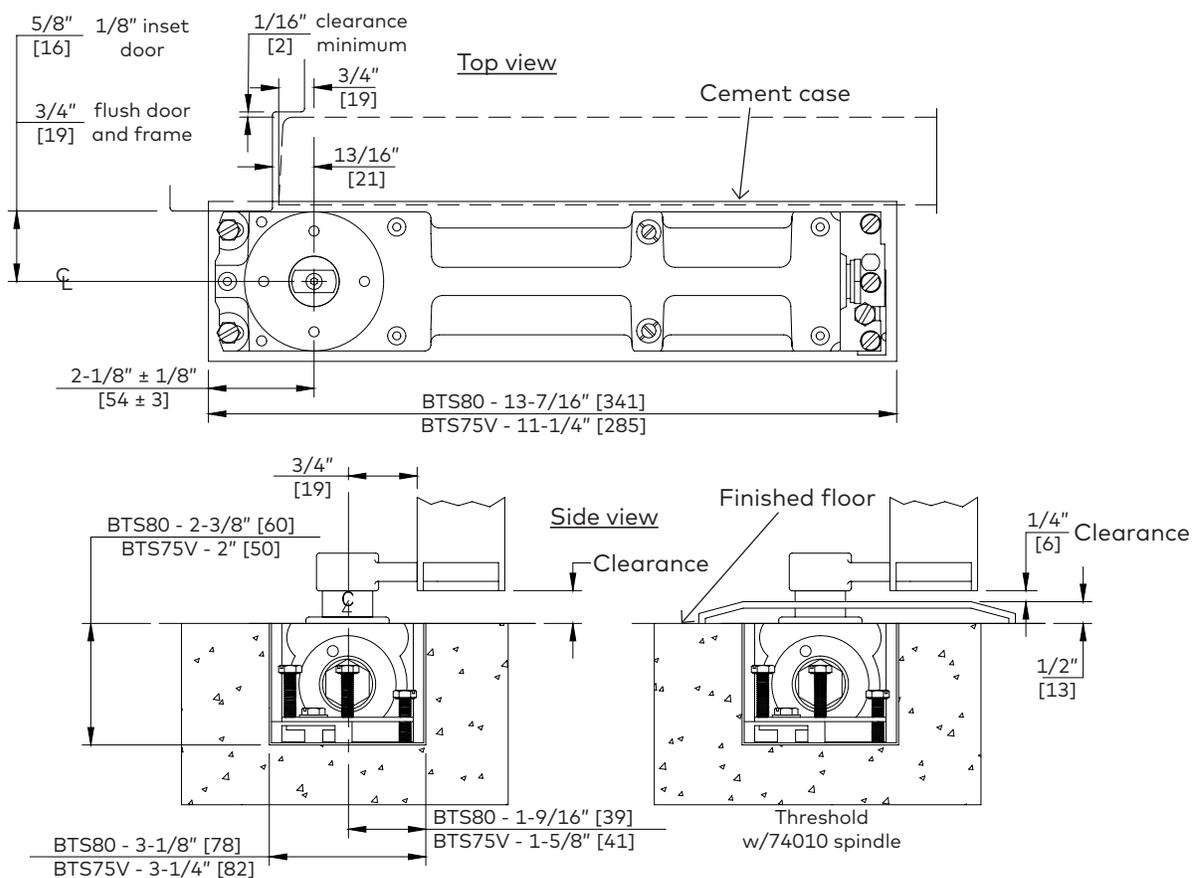


ITEM No. 75323  
 3/4" OFFSET STANDARD BOTTOM ARM  
 FOR 3 HR. RATED DOORS  
 FOR USE WITH BTS 75/80 FLOOR CLOSERS

Template No. BTS-50

## 2.3 Cement case template

Fig.7



**NOTES:**

1. Do not scale drawing.
2. Dimensions are in inches/[mm]
3. Top of cement case must be flush with finish floor line.
4. Cement case must be level and parallel to frame.
5. Install cement case with closer centered in case.
6. 1/8" inset installation shown.

Spindle no.	Clearance		
74003	5/16"	74020	1-1/8"
74005	1/2"	74025	1-5/16"
74007	5/8"	74030	1-1/2"
(std) 74010	3/4"	74035	1-11/16"
74012	13/16"	74040	1-7/8"
74015	7/8"	74045	2-1/16"
		74050	2-5/16"

FLOOR CLOSER MODELS: BTS 75V/D,E,F & BTS 80/D,E,F,L  
 3/4" OFFSET  
 CEMENT CASE PLACEMENT

Template No. BTS-78

# 3 Adjustments

## 3.1 Adjust bottom door clearances (if necessary)

Fig.8

The diagram shows two views of a door closer. The top view shows adjustment points A (fastening screws) and B (height adjustment screws). The bottom view shows the same points with a 'BTS 75V' label. Arrows indicate the direction of adjustment.

- 3.1.1 Closer can be raised approximately 5/32" with the cement case.
- 3.1.2 Loosen fastening screws "A".
- 3.1.3 Turn height adjustment screws "B" CW until desired height is obtained.

**NOTE: Closer must remain level!**

- 3.1.4 Re-tighten fastening screws "A".
- 3.1.5 If more clearance is necessary, change spindle to appropriate size.

## 3.2 Adjust closing speeds

Fig.9

**BTS80**

75V

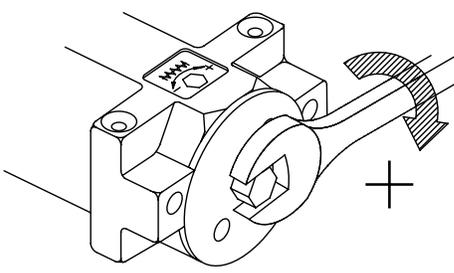
Valve "D"	Controls closing speed from 180° to 80°
Valve "E"	Controls closing speed from approximately 80°-0°
Delayed action	Turn valve "D" CW until desired delay time is obtained.
Hold open	Turn valve "D" completely CW. Door will hold at any point beyond approx. 80°. Allow for approx. 4° fall away when considering hold open position. To release door, manually pull door closed a few inches.
Valve "C"	Controls position at which hold open or delayed action will begin to occur. CW turns increase angle (105° max). CCW turns decrease angle (75° min).

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Valve "D"	Controls closing speed from 175° to 15°
Valve "E"	Controls closing speed from approximately 15°-0°
Valve "D" barrier free (BF)	Controls closing speed from 175° to 70°
Valve "E" barrier free (BF)	Controls closing speed from approximately 70°-0°
Delayed action	Turn valve "D" until desired delay time is obtained.
Hold open	Mechanical hold open is available at 90° or 105° as an option when ordering the closer.

### 3.3 Adjust spring tension (if necessary)

Fig.10



BTS75VBF	Adjust only if more spring tension is required to positively close and latch the door. Depending on opening conditions, a door adjusted to meet barrier-free forces may not have sufficient power to reliably closer and latch the door.
BS75V	Adjust according to chart.

Spring tension			
	Door width		Full turns
	Interior	Exterior	
BTS75V	2'-6" [762]	---	+3
	3' [914]	2'-6" [762]	+6
	3'-6" [1067]	3' [914]	+10

**NOTE: Max 12 turns from minimum setting.**

### 3.4 Sealing compound (optional)

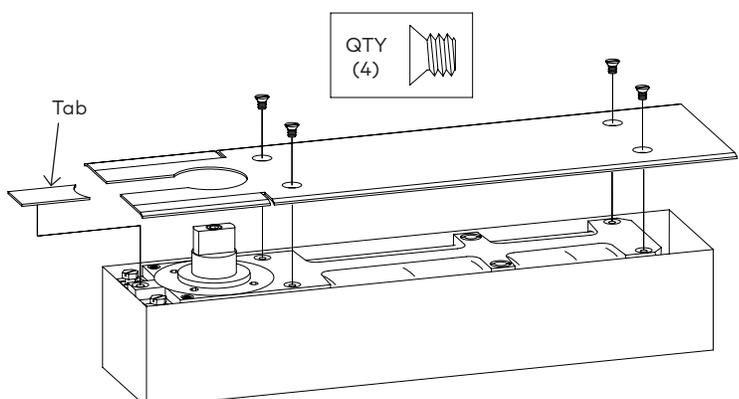
Fig.11

Sealing compound is recommended for exterior doors or areas with excessive moisture. Make all final adjustments before adding compound. Refer to instructions packed with compound for full details.

## 4 Covers

### 4.1 Install cover

Fig.12



- 4.1.1 Install cover plate or threshold.
- 4.1.2 Trim cover plate as required to match profile of pivot jamb.
- 4.1.3 Install cover plate with four screws provided.
- 4.1.4 Press tab in place behind spindle.
- 4.1.5 If threshold is installed, do not anchor threshold to closer body, since closer is adjustable within cement case.

