

BTS75V/E,F, 75V BF/E,F, 80/E,F

Package E & F

20 minute-rated and 3-hour rated

3/4" offset hung, single acting

Installation instructions

08076345 – 02-2021

| EN |

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1 Installation

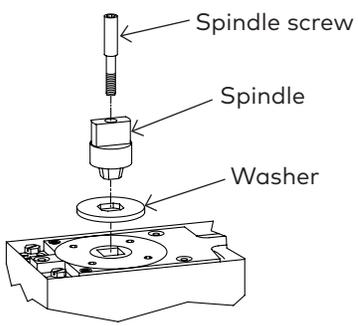
1.1 Attach spindle and install closer

Fig.1

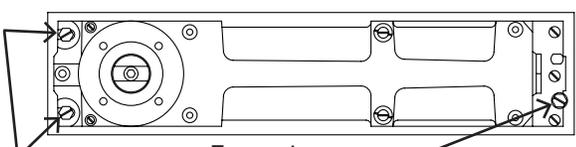
1.1.1 Slide washer over tapered square end of spindle until fully seated in groove.

1.1.2 Fasten spindle with spindle screw provided.

1.1.3 Tighten securely with 5mm hex key.



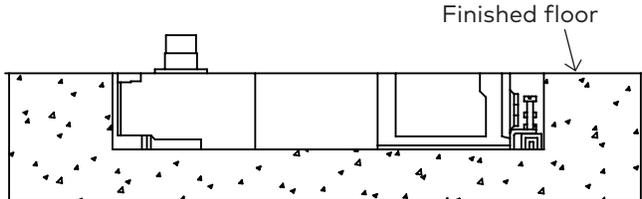
**CRITICAL:
WASHER MUST BE INSTALLED**



Fastening screws

1.1.4 Center closer in cement case.

1.1.5 Tighten fastening screws.



Finished floor

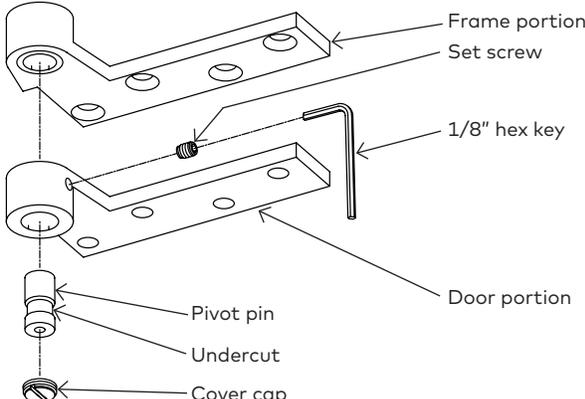
NOTE: Top of cement case must be flush with finished floor.
NOTE: Cement case must be level and installed parallel to frame.
NOTE: Spindle center line must be accurately located.
NOTE: Grout cement case in place.

1.2 Install top pivot

Fig.2

1.2.1 Remove set screw, cover cap and pivot pin.

1.2.2 Install top pivot.



Frame portion

Set screw

1/8" hex key

Door portion

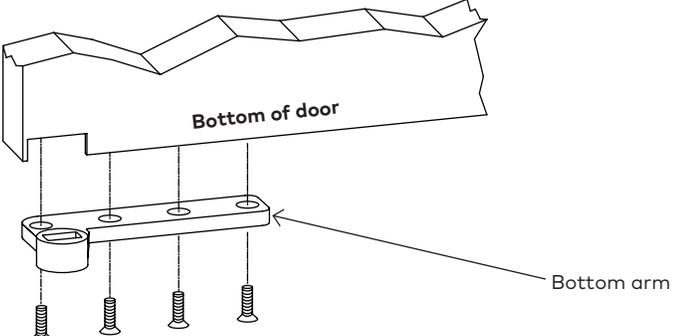
Pivot pin

Undercut

Cover cap

1.3 Install bottom arm in bottom of door (75323)

Fig.3

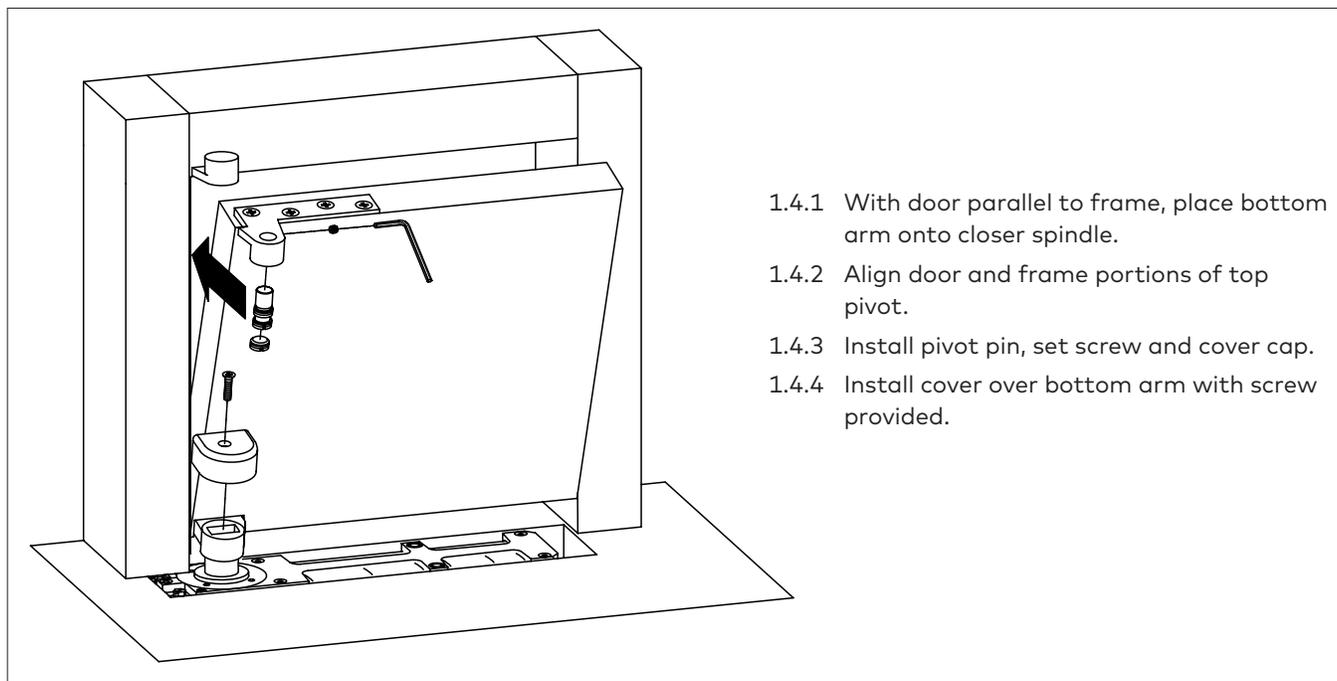


Bottom of door

Bottom arm

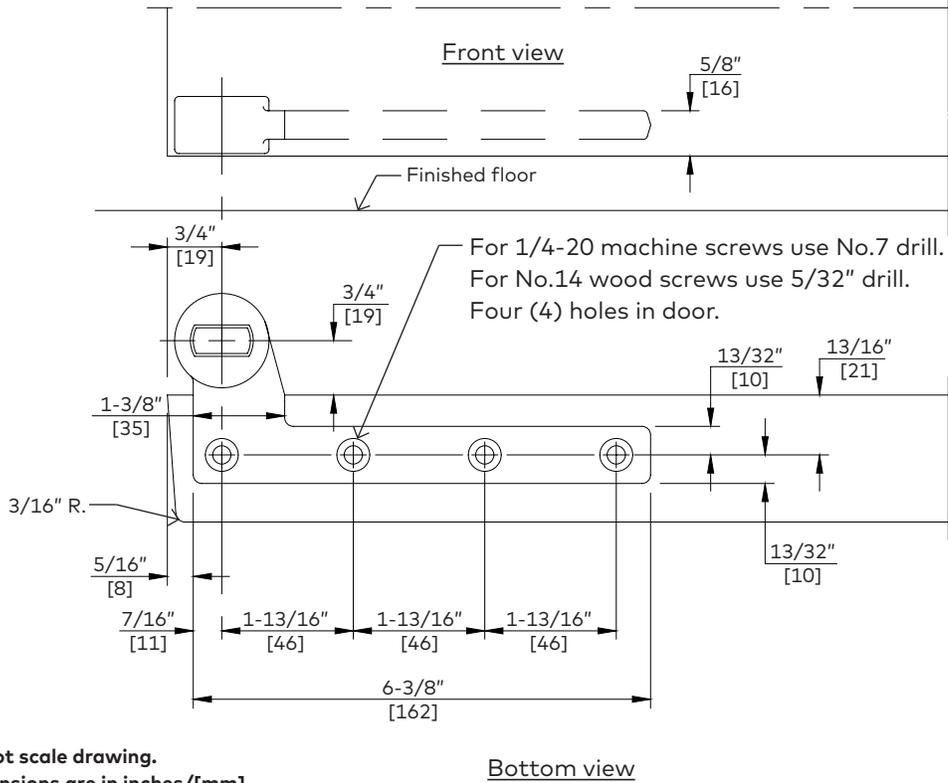
1.4 Install the door

Fig.4



2.2 Bottom arm (75323) template

Fig.6

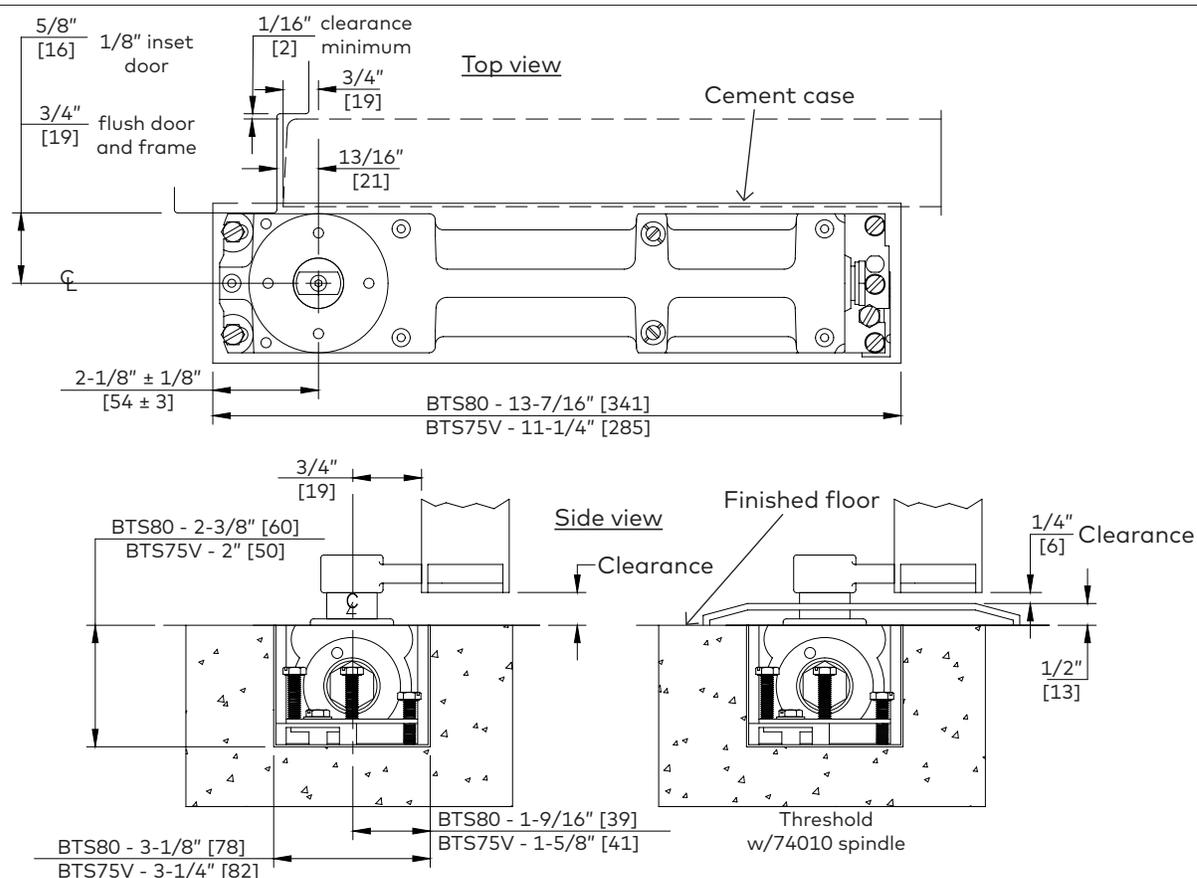


ITEM No. 75353
 3/4" OFFSET STANDARD BOTTOM ARM
 FOR 3 HR. RATED DOORS
 FOR USE WITH BTS 75/80 FLOOR CLOSERS

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		
74002	1-1/8"	74020	1-1/8"
74003	5/16"	74025	1-5/16"
74005	1/2"	74030	1-1/2"
74007	5/8"	74035	1-11/16"
(std) 74010	3/4"	74040	1-7/8"
74012	13/16"	74045	2-1/16"
74015	7/8"	74050	2-5/16"

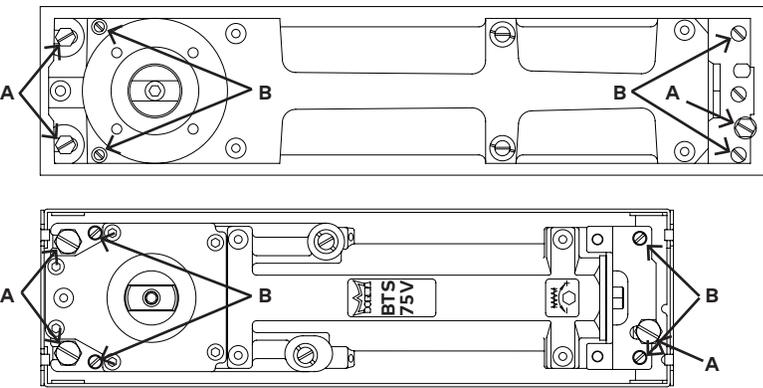
FLOOR CLOSER MODELS: BTS 75V/D,E,F & BTS 80/D,E,F,L
 3/4" OFFSET
 CEMENT CASE PLACEMENT

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 for each point.

- 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.

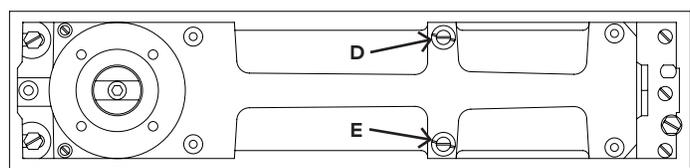
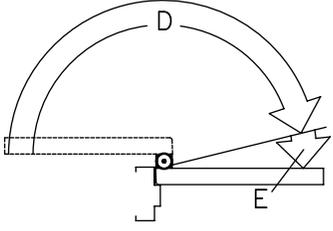
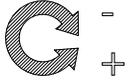
NOTE: Closer must remain level!

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

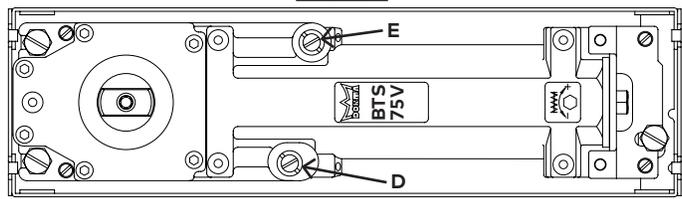
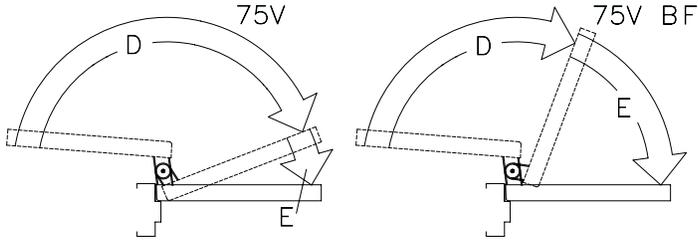
3.2 Adjust closing speeds

Fig.9

BTS80

BTS75V

Valve "D"	Controls closing speed from approx 180° to 0°. CW turns decrease closing speed. CCW turns increase closing speed.
Valve "E"	Increases closing speed from approx 7°-0°. CCW turns increase closing speed. CW turns return speed to that set by valve "D".

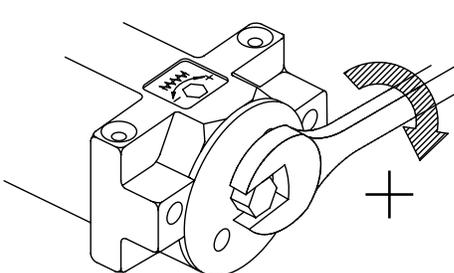
Valve "D"	Controls closing speed from 175° to 15°.
Valve "E"	Controls closing speed from approximately 15°-0°.
Valve "D" barrier free (BF)	Controls closing speed from 175° to 70°.
Valve "E" barrier free (BF)	Controls closing speed from approximately 70°-0°.

When using BTS 75V or BS 75V BF on a fire labeled door, an auxiliary stop must be used to limit door swing to 175°.

Auxiliary stop must be supplied by others.

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)

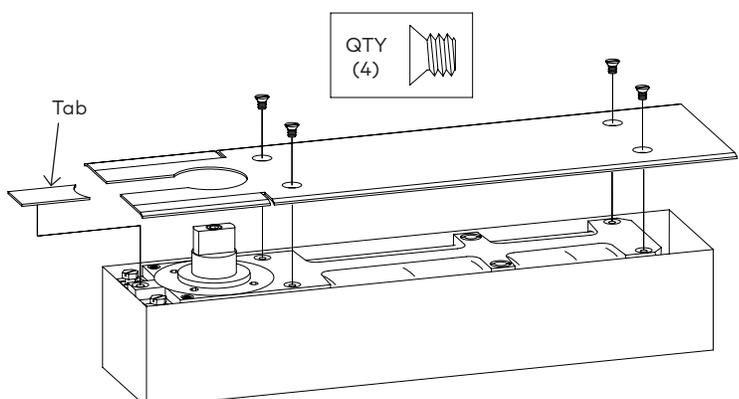
Fig.11

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.

