

BTS75V/I, 80/I x butt hinges

Package I

Pull side mortised track - 160° opening

Installation instructions

08083290 – 02-2021

| EN |

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1 Installation

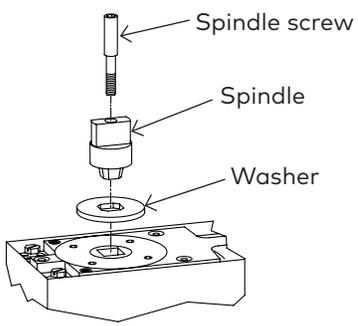
1.1 Attach spindle and install closer

Fig.1

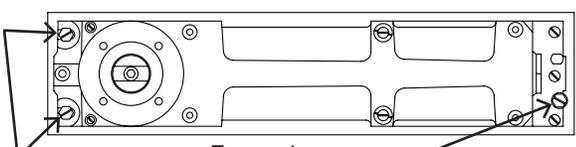
1.1.1 Slide washer over tapered square end of spindle until fully seated in groove.

1.1.2 Fasten spindle with spindle screw provided.

1.1.3 Tighten securely with 5mm hex key.



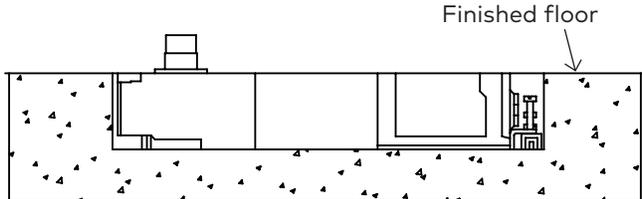
**CRITICAL:
WASHER MUST BE INSTALLED**



Fastening screws

1.1.4 Center closer in cement case.

1.1.5 Tighten fastening screws.



Finished floor

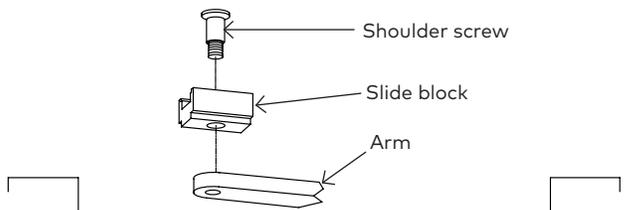
NOTE: Top of cement case must be flush with finished floor.
NOTE: Cement case must be level and installed parallel to frame.
NOTE: Spindle center line must be accurately located.
NOTE: Grout cement case in place.

1.2 Install slide block to arm

Fig.2

1.2.1 Orient arm so angle of slot appears as shown.

1.2.2 Attach slide block to arm with shoulder screw provided.



Shoulder screw

Slide block

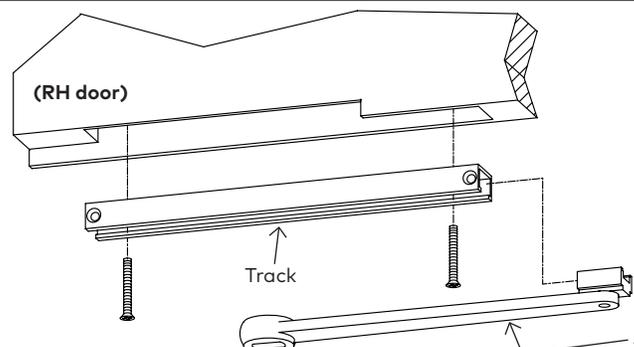
Arm

(RH door) (LH door)

Slot

1.3 Install slide arm (7451) into track

Fig.3



(RH door)

Track

Arm assembly

1.3.1 Slide arm assembly into track and install track into door.

1.4 Install arm to closer

Fig.4

(RH door)

TO CLOSE VALVES

Screw

Cover washer

Arm

Spindle

1.4.1 Close both closing speed valves.

1.4.2 Align spindle with slot in arm, shown in step 1.2.

1.4.3 Place arm over spindle.

1.4.4 Seat arm properly on spindle by tapping with a hammer.

1.4.5 Install cover washer and screw.

2 Templates

2.1 Closer template

Fig.5

NOTES:

1. Right hand door shown.
2. Do not scale drawing.
3. Dimensions are in inches/(mm).
4. For threshold applications, use spindle 74012 and measure mortise depth for track from top of threshold, (1/2" threshold only).
5. Maximum degree of opening 160°. For doors opening over 160, an auxiliary stop must be installed.
6. BTS80 hold open starts at 85°.
7. Door hung on 4-1/2" wide butt hinges.

For 1/4-20 machine screws use No.7 drill.
For No.14 wood screws use 5/32" drill.
Two (2) holes in door per channel.

FLOOR CLOSER MODEL: BTS 75/I, BTS 80/I WITH 7451N SLIDE ARM
(PULL SIDE INSTALLATION)
TRACK MORTISED IN DOOR

TEMPLATE No. BTS-80

3 Adjustments

3.1 Adjust bottom door clearances (if necessary)

Fig.6

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.7

BTS80

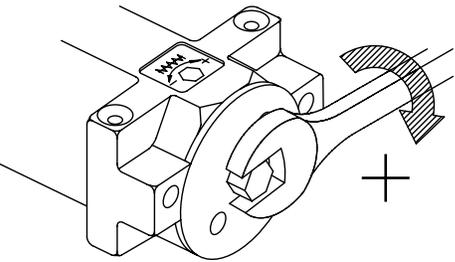
BTS75V

Valve "D"	Controls closing speed from 160° 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. 85°. 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).

Valve "D"	Controls closing speed from 160° to 15°
Valve "E"	Controls closing speed from approximately 15°-0°

3.3 Adjust spring tension (if necessary)

Fig.8



Spring tension			
	Door width		Full turns
	Interior	Exterior	
BTS75V	2'-6" [762]	---	+5
	3' [914]	2'-6" [762]	+8
	3'-6" [1067]	3' [914]	+12

NOTE: Max 12 turns from minimum setting.

3.4 Sealing compound (optional)

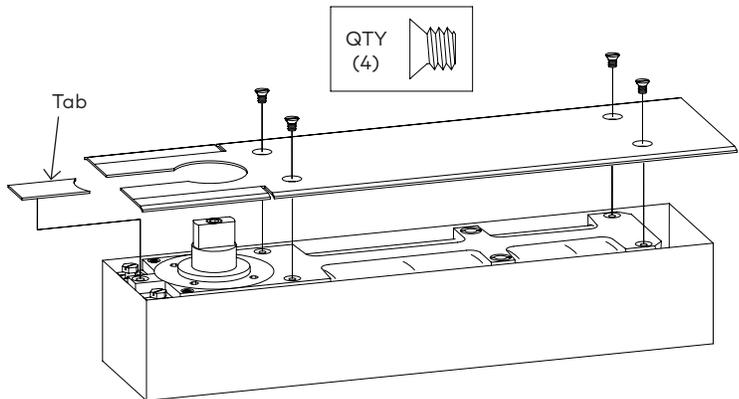
Fig.9

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.10



- 4.1.1 Trim cover plate as required.
- 4.1.2 Install cover plate with four screws provided.
- 4.1.3 Press tab in place behind spindle.

