

BTS75V/I, 80/I x butt hinges

Package I

Push side mortised track - 90° opening

Installation instructions

08083291 – 02-2021

| EN |

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1 Installation

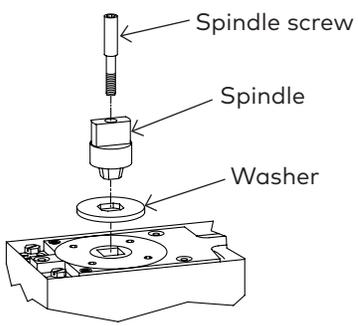
1.1 Attach spindle and install closer

Fig.1

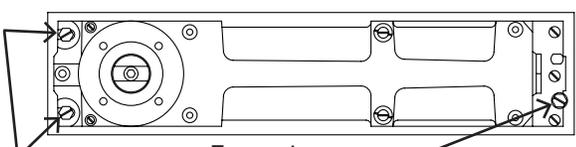
1.1.1 Slide washer over tapered square end of spindle until fully seated in groove.

1.1.2 Fasten spindle with spindle screw provided.

1.1.3 Tighten securely with 5mm hex key.



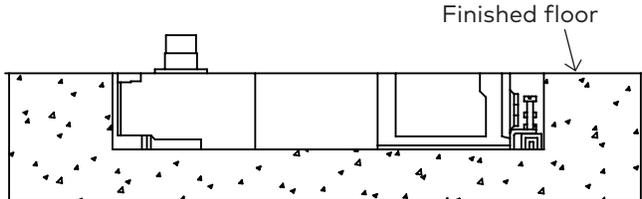
**CRITICAL:
WASHER MUST BE INSTALLED**



Fastening screws

1.1.4 Center closer in cement case.

1.1.5 Tighten fastening screws.



Finished floor

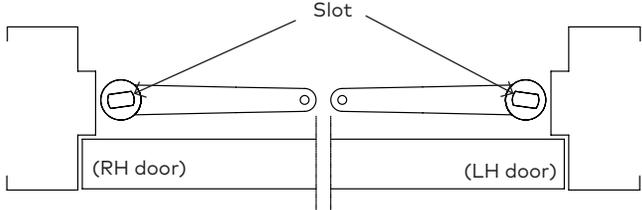
NOTE: Top of cement case must be flush with finished floor.
NOTE: Cement case must be level and installed parallel to frame.
NOTE: Spindle center line must be accurately located.
NOTE: Grout cement case in place.

1.2 Install slide block to arm

Fig.2

1.2.1 Orient arm so angle of slot appears as shown.

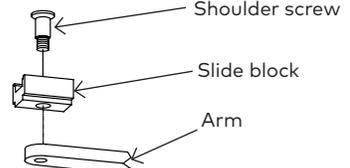
1.2.2 Attach slide block to arm with shoulder screw provided.



Slot

(RH door)

(LH door)



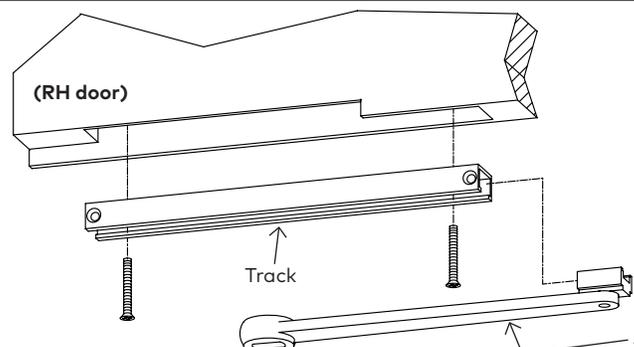
Shoulder screw

Slide block

Arm

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

1.4.1 Close both closing speed valves. Turn CW.

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:

- Do not scale drawing.
- Dimensions are in inches/(mm).
- Door hung on 4-1/2" wide butt hinges.
- Maximum opening 90°. For doors opening over 90°, an auxiliary stop must be used.
- Spindle No. 74003 shown. For 1/2" threshold, use spindle No. 94012 and measure mortise depth for track from top of threshold.

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

74003 spindle

Finished floor

BTS 80 2-3/8" [60]
BTS 75V 2" [50]

BTS 80 3-1/8" [78]
BTS 75V 3-1/4" [82]

BTS 80 13-7/16" [341]
BTS 75V 11-1/4" [285]

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

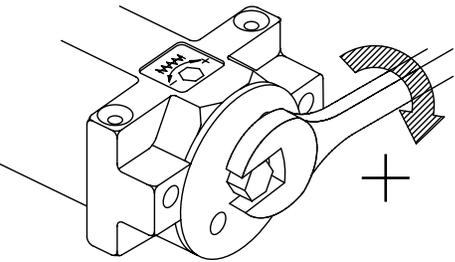
BTS75V

Valve "D"	Controls closing speed from 90° 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 poitn 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).

Valve "D"	Controls closing speed from 90° to 15°
Valve "E"	Controls closing speed from approximately 15°-0°

3.3 Adjust spring tension (BTS75V ONLY; 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)

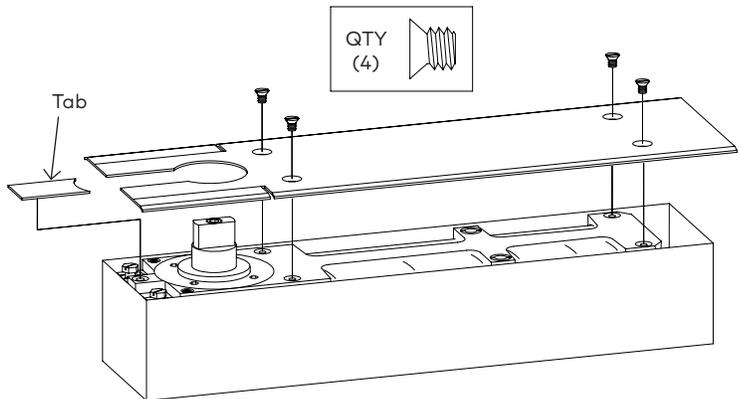
Fig.9

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 Fasten with four screws provided.
- 4.1.3 Press tab into place behind closer.

