

BTS80 EMB/I x butt hinges

Package I

Pull side mortised track - 160° opening

Installation instructions

08064283 – 03-2021

| EN |

dormakaba 

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1 Installation

1.1 Attach spindle and install closer

Fig.1

Fastening screws

Solenoid wire

Conduit connector

Finished floor

Spindle screw

Spindle

Washer

1.1.1 Center closer in cement case.
 1.1.2 Tighten fastening screws.

1.1.3 Pull solenoid wire through conduit. (CONDUIT SUPPLIED BY OTHERS.)
 1.1.4 Attach conduit to conduit connector on end of cement case.

1.1.5 Slide washer over tapered square end of spindle until fully seated in groove.
 1.1.6 Fasten spindle with spindle screw provided.
 1.1.7 Tighten securely with 5mm hex key.

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

Shoulder screw

Slide block

Arm

Slot

(RH door)

(LH door)

Slot

1.2.1 Orient arm so angle of slot appears as shown.
 1.2.2 Attach slide block to arm with shoulder screw provided.

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.

1.4.2 Align spindle with slot in arm, shown below.

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. Door hung on 4-1/2" wide butt hinges.
7. 1/2" [13] rigid conduit by others.

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.

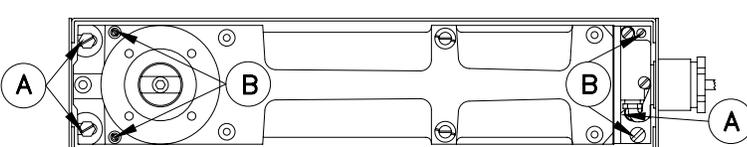
FLOOR CLOSER MODEL: BTS 80EMB/I WITH 7451N SLIDE ARM
(PULL SIDE INSTALLATION)
TRACK MORTISED IN DOOR

BTS-68

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.

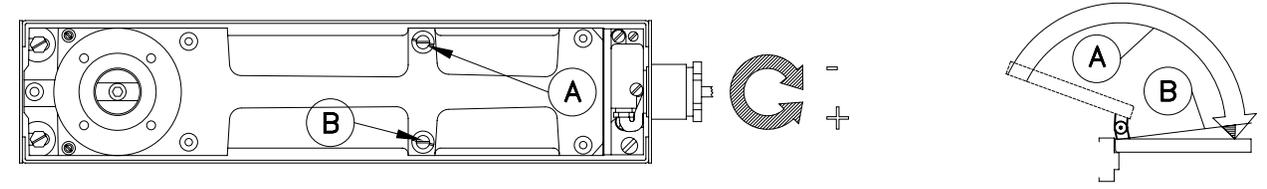
NOTE: Closer must remain level!

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



| | |
|-----------|---|
| Valve "A" | Controls closing speed from 160° to 0° |
| Valve "B" | Controls closing speed from approximately 7°-0° |

3.3 Sealing compound (optional)

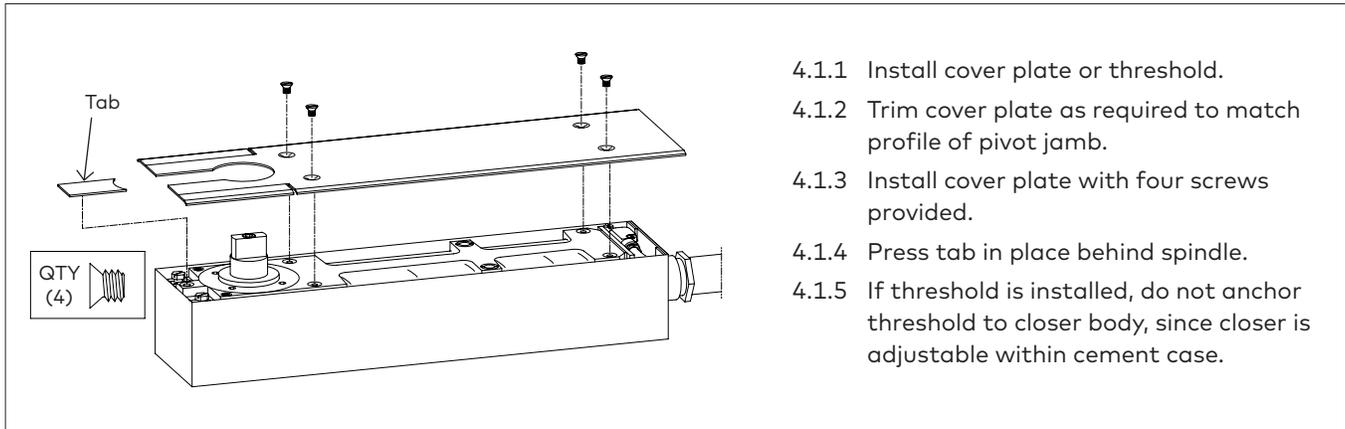
Fig.8

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

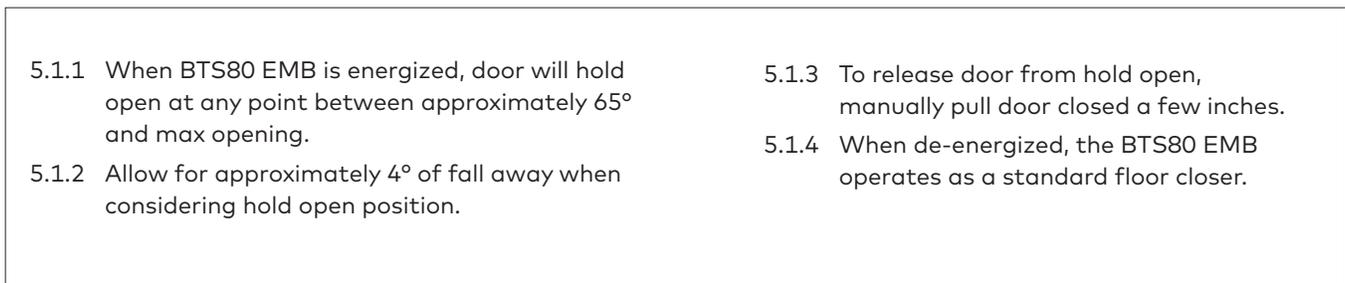
Fig.9



5 Operations

5.1 Operating the BTS30 EMB

Fig.10



5.2 Electrical specifications

Fig.11

