

BTS80, 80F

Installation instructions

08076346 – 12-2019

| EN |

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1 Installation

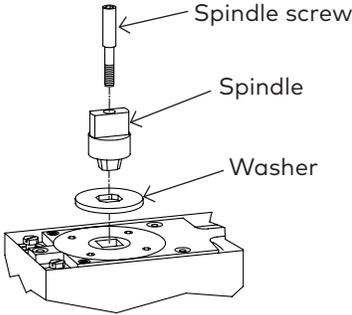
1.1 Attach spindle and install closer

Fig.1

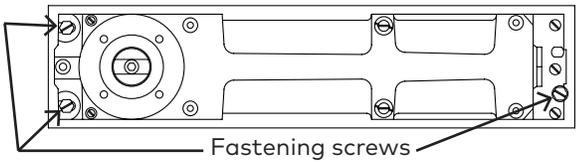
1.1.1 Slide washer over tapered square end of spindle until fully seated in groove.

1.1.2 Fasten spindle with spindle screw provided.

1.1.3 Tighten securely with 5mm hex key.



**CRITICAL:
WASHER MUST BE
INSTALLED**



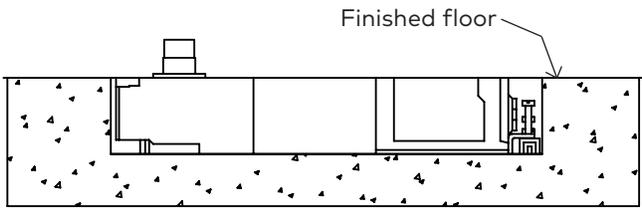
Fastening screws

1.1.4 **Replacing closer in existing installation:**

- Remove fastening screws and replace old closer with new closer.
- Spindle center line must be accurately located for the pivot point of the door.
- Reinstall and tighten fastening screws.

1.1.5 **New installations:**

- Center closer in cement case.
- Tighten fastening screws.



Finished floor

1.1.6 **New installations only:**

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

1.2 Install door

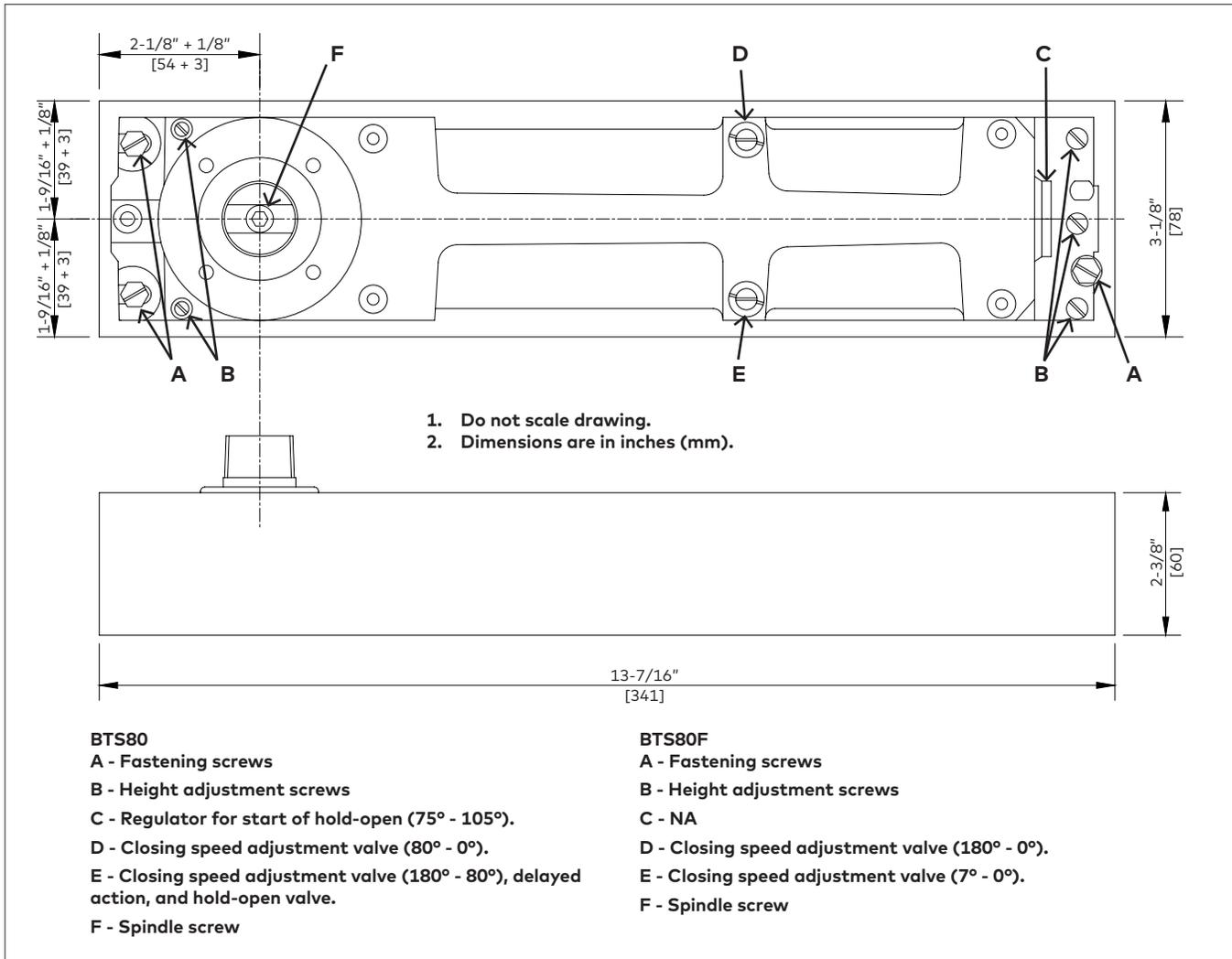
Fig.2

1.2.1 Reinstall door, then proceed to section 3.

2 Templates

2.1 Closer template

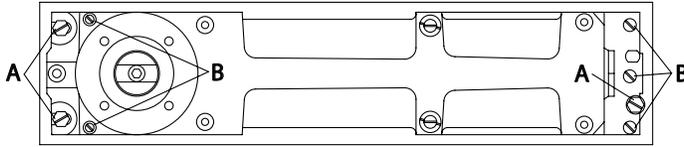
Fig.3



3 Adjustments

3.1 Adjust door clearances (if necessary)

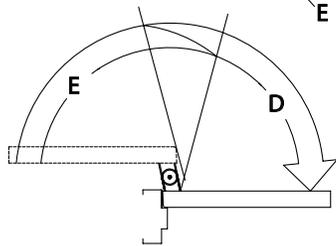
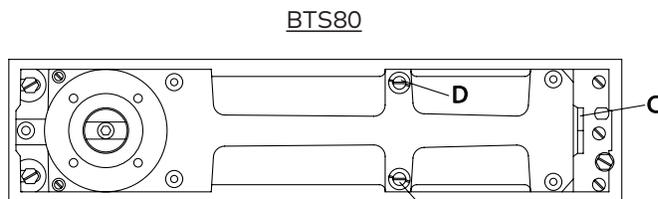
Fig.4



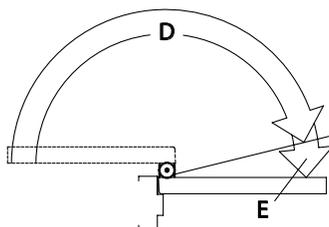
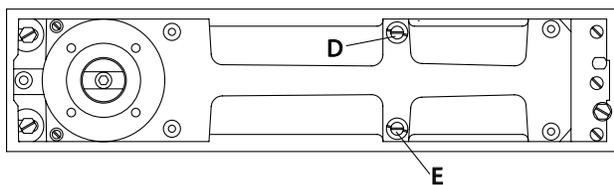
- 3.1.1 Closer can be raised approximately 5/32" within the cement case.
- 3.1.2 Loosen fastening screws "A".
- 3.1.3 Turn height adjustment screws "B" CW until desired height is obtained.
- 3.1.4 Closer must remain level.
- 3.1.5 Retighten fastening screws "A".
- 3.1.6 If more clearance is necessary, change spindle to appropriate size.

3.2 Adjust closing speeds

Fig.5



BTS80F



Valve "D"	Controls closing speed from approximately 80° to 0°
Valve "E"	Controls closing speed from approximately 180°-80°. (Opening conditions may limit maximum opening.)
Delayed action	Turn valve "E" CW until desired delay time (max. opening - 75°) is obtained.
Hold open	Turn valve "E" 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.)

Valve "D"	Controls closing speed from approximately 180° to 0°. CW turns decrease closing speed. CCW turns increase closing speed. (opening conditions may limit max. opening).
Valve "E"	Increases closing speed from approximately 7°-0°. CCW turns increase closing speed. CW turns return speed to that set by valve "D".

3.3 Sealing compound (optional)

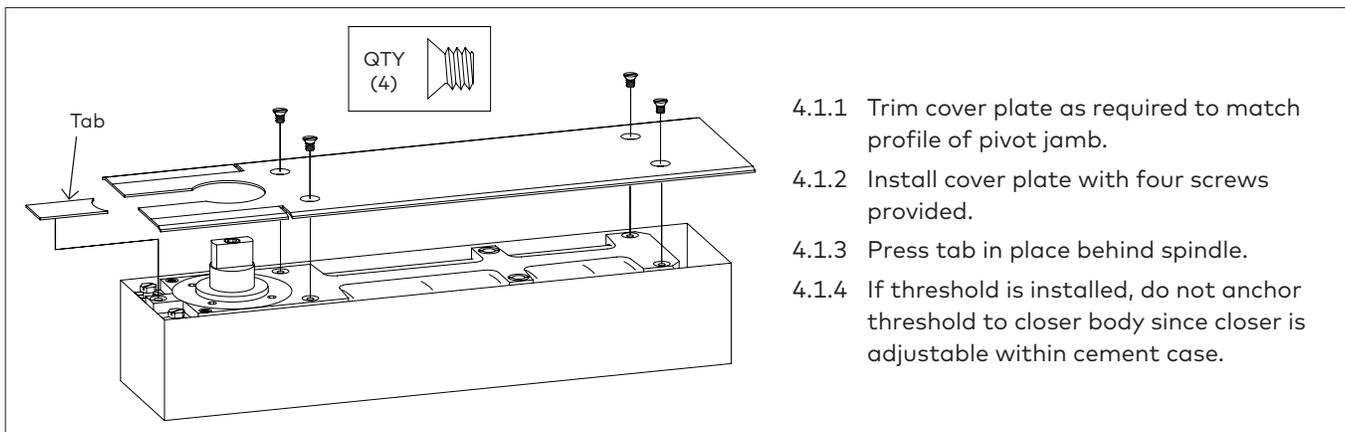
Fig.6

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.7



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

