# BTS80 EMB/C

Package C 1-1/2" offset hung, single acting

## **Installation instructions**

08059412 - 03-2021





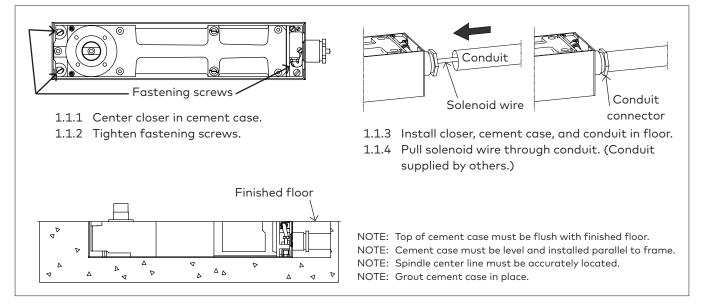
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## 1 Installation

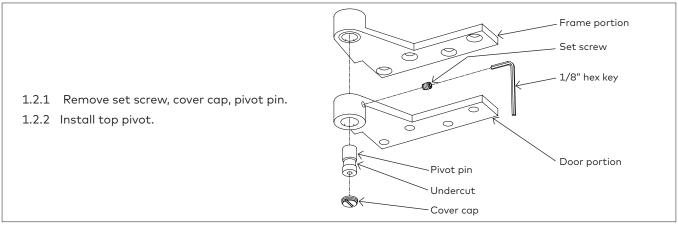
#### 1.1 Install closer

Fig.1



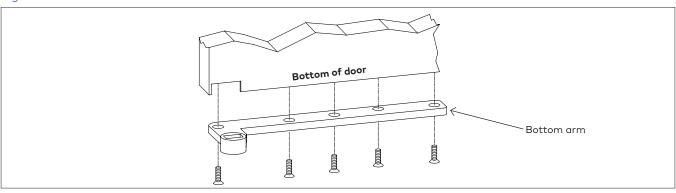
### 1.2 Install top pivot

Fig.2



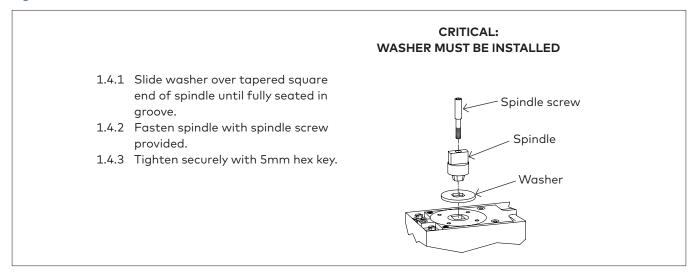
## 1.3 Install bottom arm in bottom of door (15323)





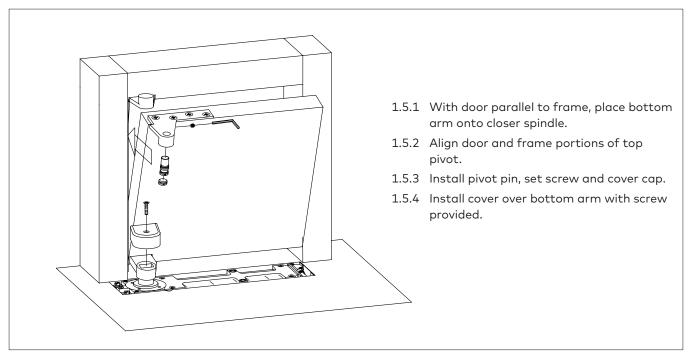
## 1.4 Install spindle

Fig.4



### 1.5 Install the door

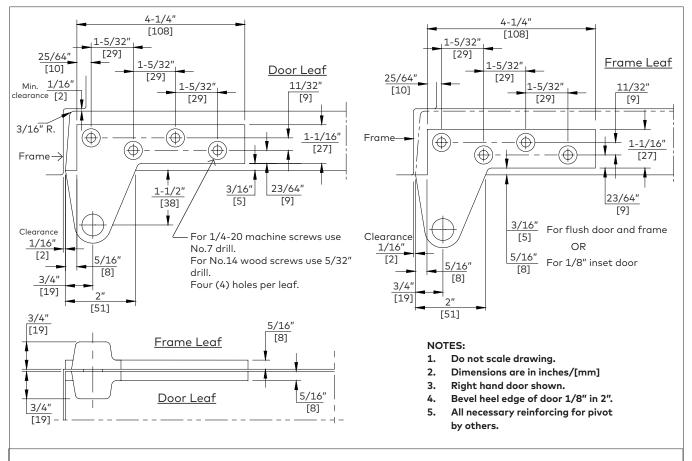
Fig.5



## 2 Templates

## 2.1 Top pivot template

Fig.6

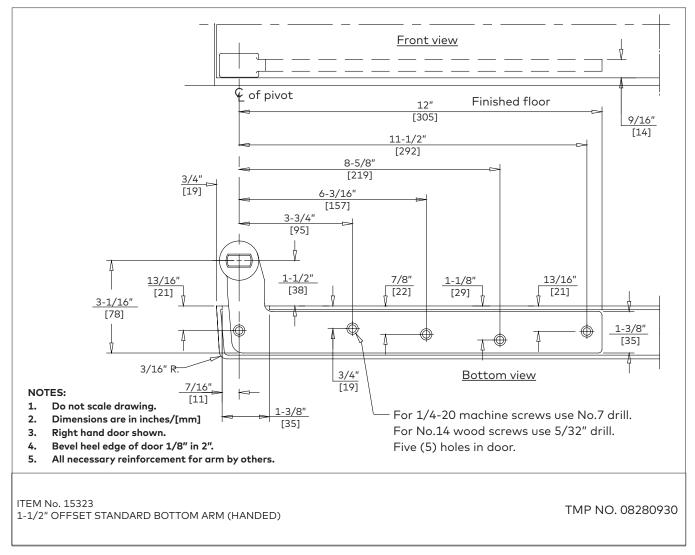


ITEM No. [151220, 15122, 15133 (DOOR FLUSH WITH FRAME) NON-HANDED], [15120 5/8, 15122 5/8, 15133 5/8 (DOOR INSET 1/8" FROM FRAME) HANDED] 1-1/2" OFFSET FULL MORTISE TOP PIVOT

BTS-72

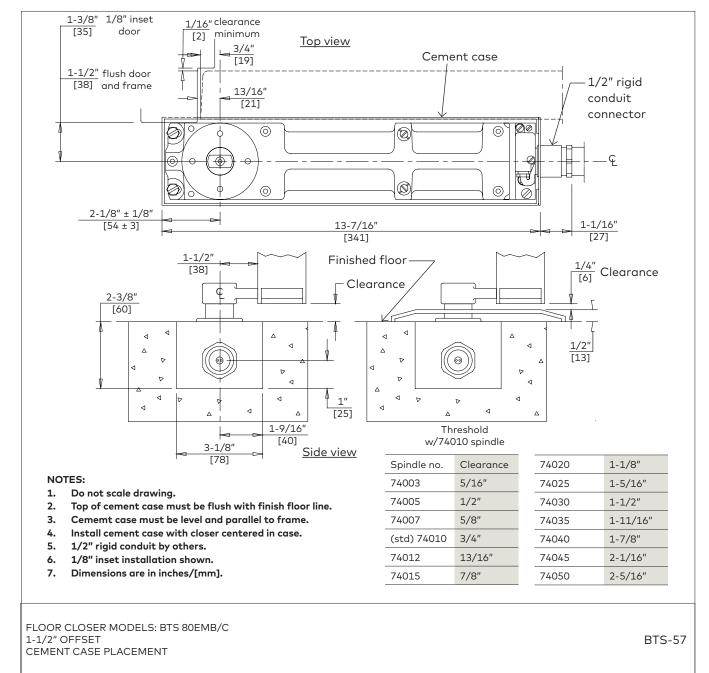
## 2.2 Bottom arm (15323) template

#### Fig.7



### 2.3 Cement case template

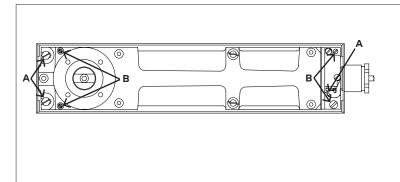
#### Fig.8



## 3 Adjustments

## 3.1 Adjust bottom door clearances (if necessary)

Fig.9



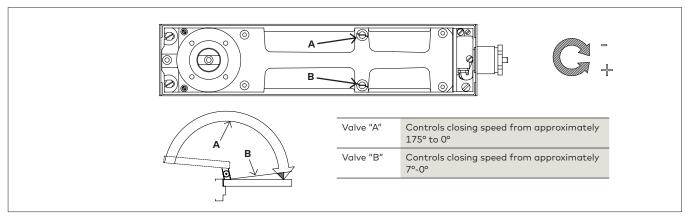
- 3.1.1 Closer can be raised approximately 5/32" with the cement case.
- 3.1.2 Loosen fastening screws "A".
- 3.1.3 Turn height adjustment screws "B" CW until desired height is obtained.

#### 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.10



## 3.3 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.

## 3.4 Intermediate pivot (optional)

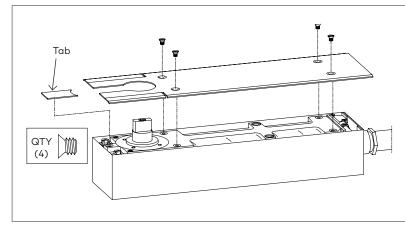
Fig.12

If intermediate pivot is to be used, refer to installation instructions packed with pivot.

## 4 Covers

### 4.1 Install cover

Fig.13



- 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.

## 5 Operation

### 5.1 Operating the BTS80EMB

Fig.14

- 5.1.1 When BTS80EMB is energized, door will hold open at any point between approximately 65° and 180°.
- 5.1.2 Allow for approximately 4° of fall away when considering hold open position.
- 5.1.3 To release door from hold open, manually pull door closed a few inches.
- 5.1.4 When de-energized, the BTS80EMB operates as a standard floor closer.

## 5.2 Electrical specifications

Fig.15

**Operating voltage:** 24 Volts DC (10%) max. allowable residual

ripple 30%

**Input current:** 125 MA

- 5.2.1 Important: If the BTS80EMB is connected to a fire alarm system, the unit must be tested after installation, by the end user, to be certain that the door closer unit functions properly when the alarm system is activated.
- 5.2.2 The entire system must also be tested periodically after the initial installation test, in conjunction with the testing of the fire alarm system
- 5.2.3 The end user is also responsible for maintaining the door closing system.