BTS80 EMB/G

Package G Aluminum door & frame, center hung Single acting

Installation instructions

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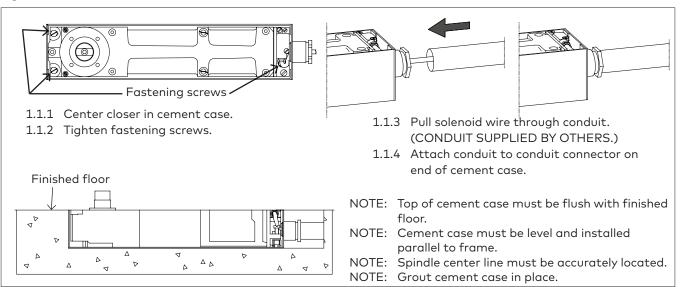
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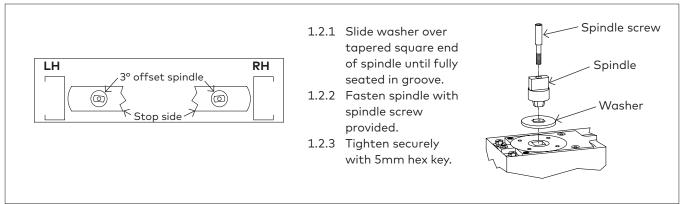
1 Installation

Fig.1



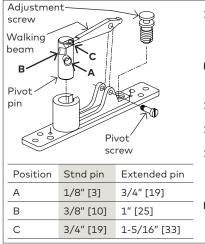
1.2 Attach spindle

Fig.2

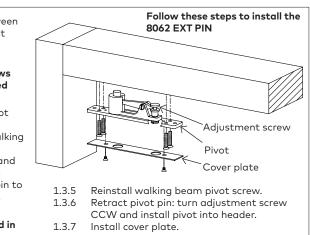


1.3 Adjust pivot for door clearance

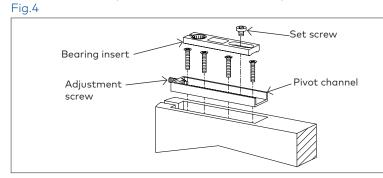
Fig.3



- 1.3.1 Determine clearance between door and frame, and adjust projection of pivot pin, if required.
- NOTE: Pivot pin projection allows 1/8" clearance as shipped from the factory.
- 1.3.2 Remove walking beam pivot screw.
- 1.3.3 Push pivot pin out until walking beam is disengaged.
 1.3.4 Install extended pivot pin and engage walking beam into appropriate hole in pivot pin to obtain required projection.
- NOTE: Be sure opposite end of walking beam is engaged in adjustment screw.

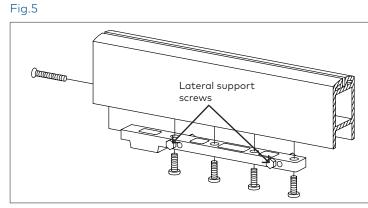


1.4 Install pivot channel in top of door



- 1.4.1 Fasten pivot channel in top of door.
- 1.4.2 Place bearing insert into pivot channel.
- 1.4.3 Turn adjustment screw approximately halfway into pivot channel.
- 1.4.4 Adjust pivot point accordingly.
- 1.4.5 Lock bearing insert in place with set screw.

1.5 Install bottom arm in bottom of door (7422)

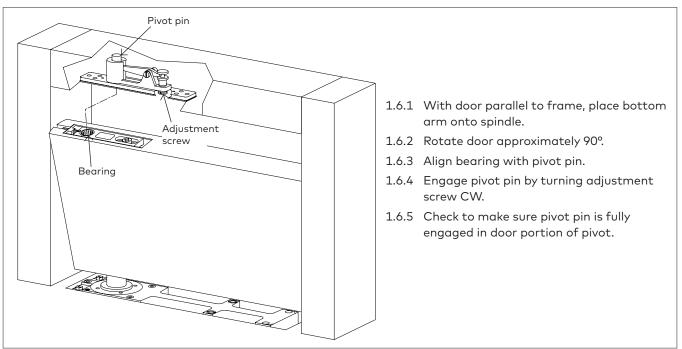


- 1.5.1 Install four lateral support screws in arm.
- 1.5.2 Fully tighten screws.
- 1.5.3 Fasten arm to door with four pan head machine screws.
- 1.5.4 Secure end of arm with flat head machine screw.
- 1.5.5 Turn the four lateral support screws CCW until head of screws firmly contact door.

1.6 Install the door

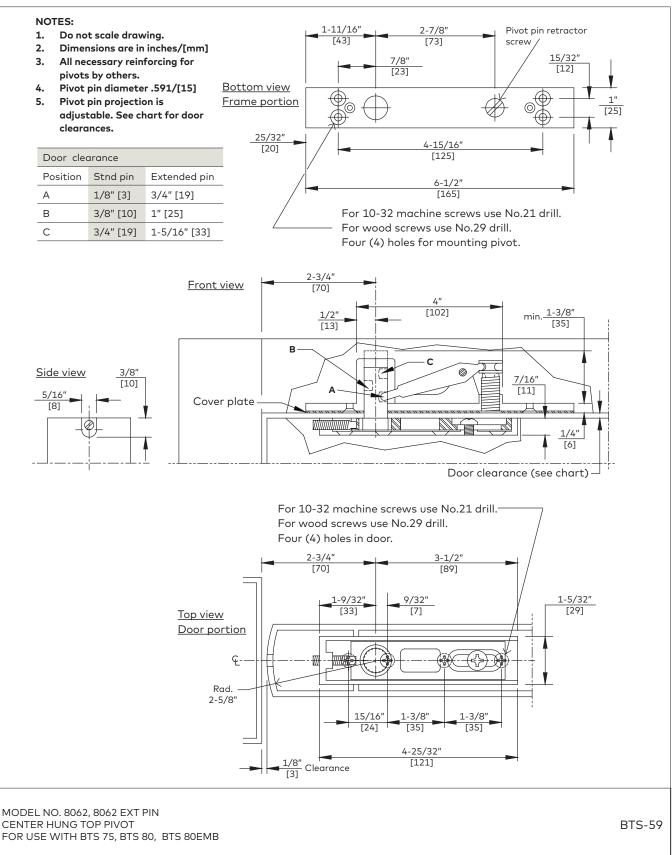
Fig.6

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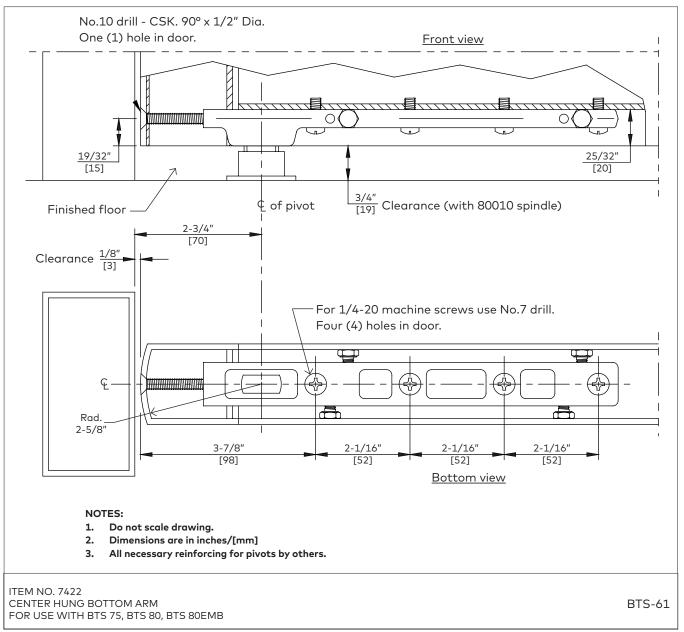
2 **Templates** 2.1 Top pivot template





2.2 Bottom arm (7422) template

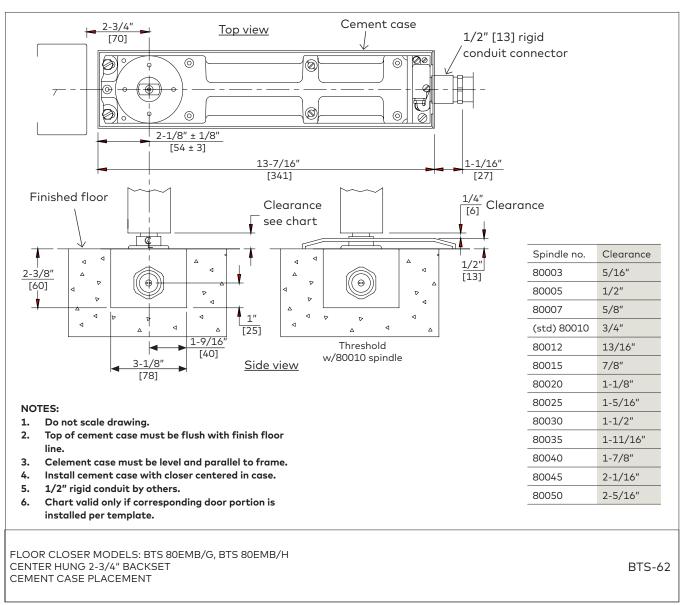
Fig.8



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2.3 Cement case template

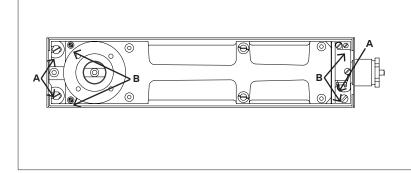




3 Adjustments

3.1 Adjust bottom door clearances (if necessary)

Fig.10



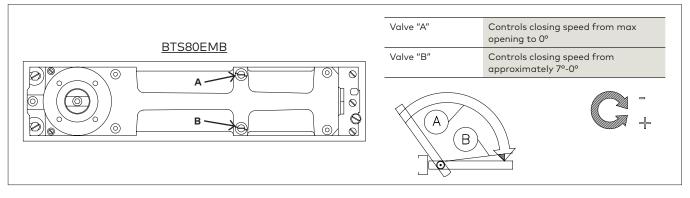
- 3.1.1 Closer can be raised approximately 5/32" with the cement case.
- 3.1.2 Loosen fastening screws "A".
- 3.1.3 Turn height adjustment screws "B" CW until desired height is obtained.

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.11



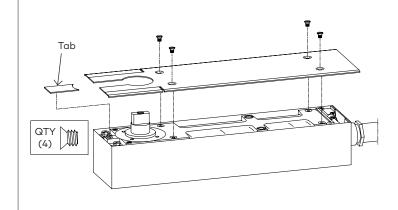
3.3 Sealing compound (optional)

Fig.12

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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.

4.1 Install cover



- 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 BTS80 EMB

Fig.14

5.1.1	When BTS80 EMB is energized, door will hold open at any point between approximately 65° and max opening.
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 BTS80 EMB operates as a standard floor closer.

5.2 Electrical specifications

Fig.15

	ating voltage: current:	24 Volts DC (10%) max. allowable residual ripple 30% 125 MA
5.2.1	the unit must be	BTS80 EMB is connected to a fire alarm system, tested after installation, by the end user, to be door closer unit functions properly when the alarm :ed.
5.2.2	,	must also be tested periodically after the initial n conjunction with the testing of the fire alarm
5.2.3	The end user is als	so responsible for maintaining the door closing system.

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