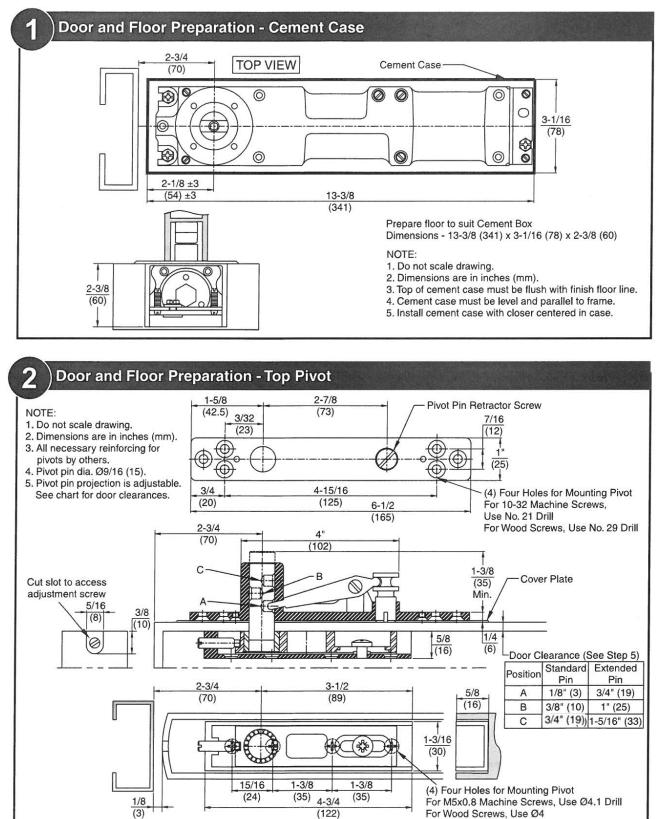
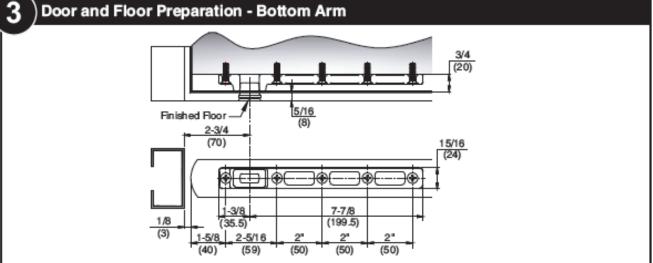
ST80 Floor Spring Installation Instructions

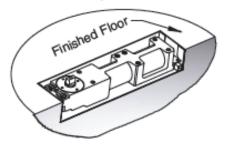


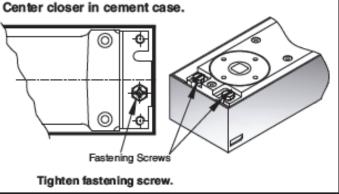
Door and Floor Preparation - Bottom Arm

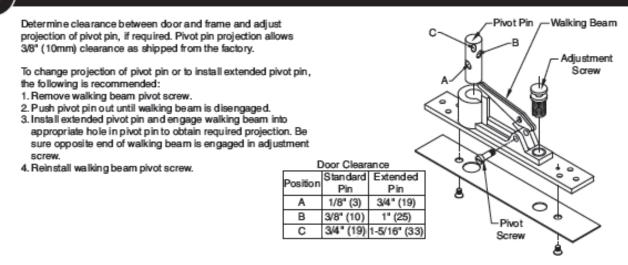


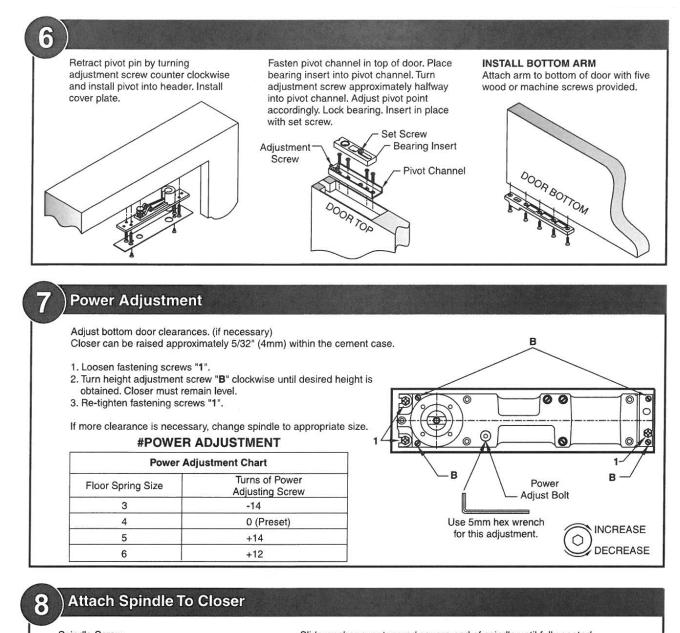
Install Closer and Cement Case In Floor

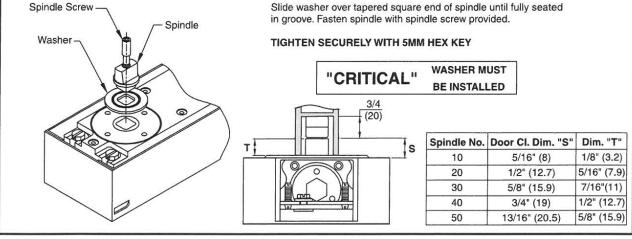
Top of cement case must be flush with finished floor. Cement case must be level and installed parallel to frame. Spindle centerline must be accurately located. Grout cement case in place.









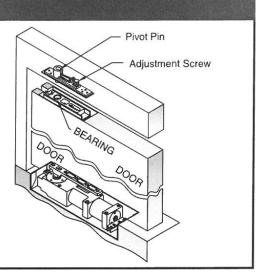


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Install Door

- 1. With door parallel to frame, place bottom arm onto spindle.
- 2. Rotate door approximately 90°.
- 3. Align bearing with pivot pin.
- 4. Engage pivot pin by turning adjustment screw clockwise.
- 5. Check to make sure pivot pin is fully engaged in door portion of pivot.



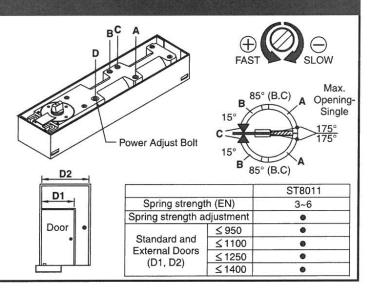
Adjust Closing Speed

VALVE "A" -	controls closing speed from MAX. OPENING - 85°
VALVE "B" -	controls closing speed from approx. 85° - 15°
VALVE "C" -	controls closing speed from approx. $15^{\circ} - 0^{\circ}$
VALVE "D" -	adjustable closing force (EN3~6)
DELAYED AC	TION

Turn valve "A" clockwise until desired delay time is obtained.

HOLD OPEN

Turn valve "A" completely clockwise. Door will hod at any point beyond approx. 85°. Allow for approx. 4° fall away when considering old open position. To release door, manually pull door closer a few inches.



Install Cover Plate or Threshold

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

