

1500 Series Single Acting Spring Hinge Installation for: 1502, 1502TRS, 1522, 1552, 1572

CAUTION:

Use of gasketing for smoke or sound protection, wind conditions or unbalanced air pressure, twisted or misaligned frames or doors, door bottoms, improper latch adjustment may prevent doors from latching. Additional spring hinges may be required.

- Note:**
1. Door & frame should be prepared in accordance with **Template 535** for 4"1502. Use **Template 540** for 1502, 1502TRS, 1522 & 1552 or **Template 545** for 1572. These templates can be found on our website at www.mckinneyhinge.com.
 2. For ease of installation, do not apply tension before installing hinges.
 3. Hinges can be installed with tensioning pin up or down.

Installation:

1. Attach three 1502 spring hinges or two 1502 spring hinges and one equivalent size bearing hinge to the door and jamb in a manner similar to that for any fixed pin hinge. Spring hinges may be mounted in any of the three hinge positions. See below.
- A. For door weights up to 115 pounds (4-1/2 1522) - two spring hinges and one equivalent size bearing hinge.
- B. For door weights up to 150 pounds (4-1/2 1502, 1502TRS, 1552 & 1572) - three spring hinges.
- C. For door weights up to 105 pounds (4" 1502) - three spring hinges.

Note: Due to the adjustment feature, it is recommended that three spring hinges be used on all doors weighing up to 150 pounds and applying tension equally on all three to obtain the desired rate of door closure.

Maximum door size 3'0" x 7'0" x 1-3/4" thick
 4 x 4 1502 for doors up to 105 lbs.
 4-1/2" x 4" & 4-1/2" x 4-1/2" 1502, 1502TRS, 1552, 1572 for doors up to 150 lbs.
 4-1/2" x 4" & 4-1/2" x 4-1/2" 1522 for doors up to 115 lbs.

Adjustment:

1. With the door in the open position, loosen the #6 hex socket set screw with the 1/16" hex key provided 1/2 to 3/4 of a turn.

CAUTION:

Do not adjust more than 3/4 of a revolution from the original starting position.

2. Close the door. Insert the 5/32" hex key provided in the end of the tensioning pin and turn in the direction shown below.
3. Turn the tensioning pin 1/4 of a revolution (three clicks) and check the tension of the door.
4. If additional tension is still required, turn the tensioning pin in the direction shown one increment (click) at a time on one hinge at a time until the desired force is achieved.
5. Retighten the set screw.

Spring tension release:

If excessive tension was applied or if the hinge is to be removed from the door, the tension may be removed as follows:

1. With the door in the open position, loosen the #6 hex socket set screw with the 1/16" hex key provided 1/2 to 3/4 of a turn.
2. Close the door. Insert the 5/32" hex key provided into the tensioning pin and rotate slightly in the direction shown. (The same direction as when applying tension.)
3. Depress the tensioning pin to disengage the ratchet teeth and carefully rotate it in the opposite direction to release the tension. This may need to be repeated several times to fully release the tension.
4. To reapply the tension, follow steps listed under above adjustment.

