



48" Aluminum Shutter Spring Kit

Purpose

To add spring tension to an existing aluminum shutter for more efficient operation.

Tools Required

Cordless Drill	1/4" drill bit	Kit of Parts
1/4" hex head bit	Screwdriver	Pop Rivet Gun

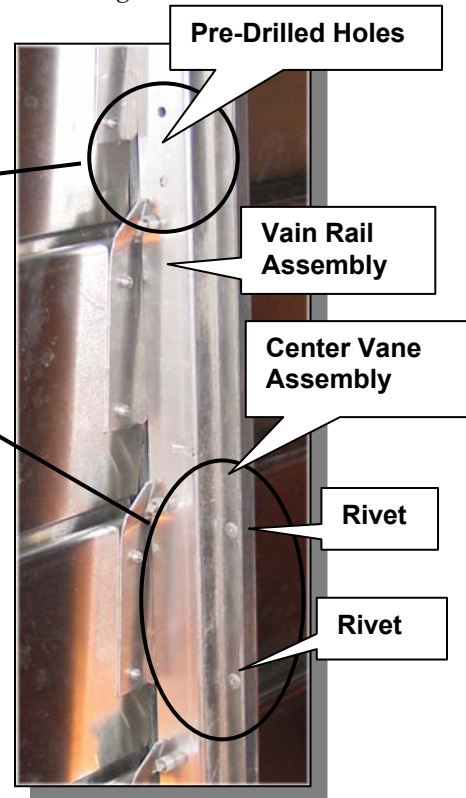
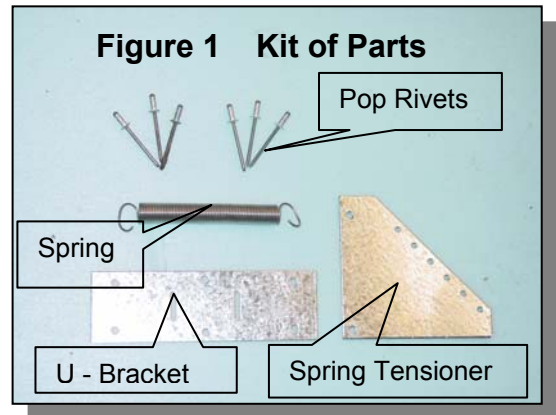
Directions

⚠ Warning

Before beginning Installation disconnect all electrical power from the fan.

(1) Open the Kit of Parts and verify that all parts are present. See Figure 1.

(2) Remove the shutter from the fan and place the exhaust side down on a flat level surface. *NOTE: The shutter should be fully closed during installation.*

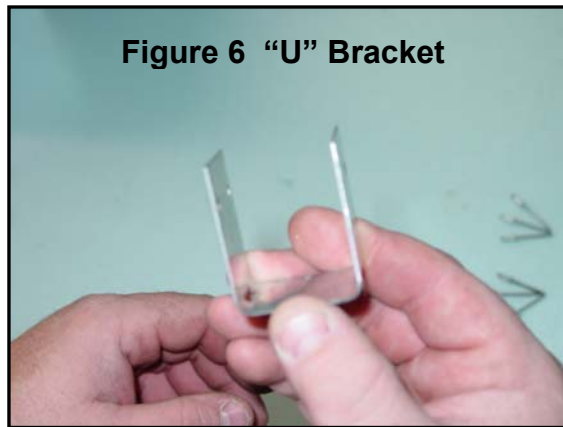
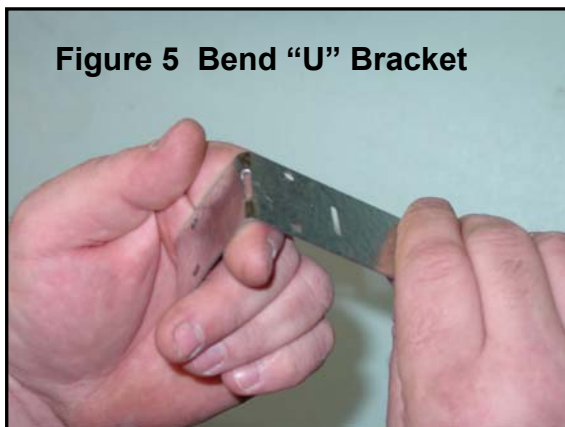


(3) Locate the four holes in the shutter as shown in Figure 2. The two top holes are in the left and right Vain Rail Assembly and are pre-drilled. The two bottom holes are in the left and right Center Vane Assembly and contain rivets. The two top holes will hold the "U" Bracket installed in Step 6 and the bottom two holes will contain the Spring Tensioner installed in the next step.

(4) Using a ¼” drill bit, drill out the two rivets in the Center Vane Assembly and install the Spring Tensioner using the pop-rivets included in the Parts Kit.;



(5) Bend the “U” Bracket as shown in Figures 5 and 6.



(6) Using four pop-rivets (supplied with kit) connect the “U” bracket to the left and right Vane Rail Assembly. (See Figure 2)

(7) Attach the spring to the bottom hole in the “U” bracket. Then attach the spring to the Spring Tensioner Bracket in the uppermost hole as shown in Figure 7. NOTE: The position of the spring can be changed after running the fan and checking the operation of the shutter.

(8) The Shutter Clip installation is complete.

(9) Reinstall shutter to fan.

(10) Reconnect power to fan.

(11) Verify operation of shutter. If shutter does not perform satisfactorily, the spring can be moved up (reduce tension) or down (increase tension).

