

1) Dual Panel Installation (larger than 33"):



Dual Panel Shutter Assembly

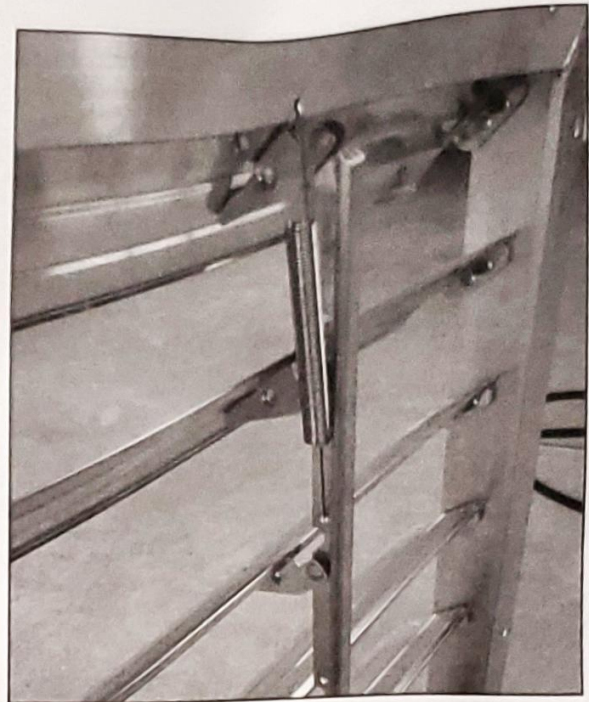
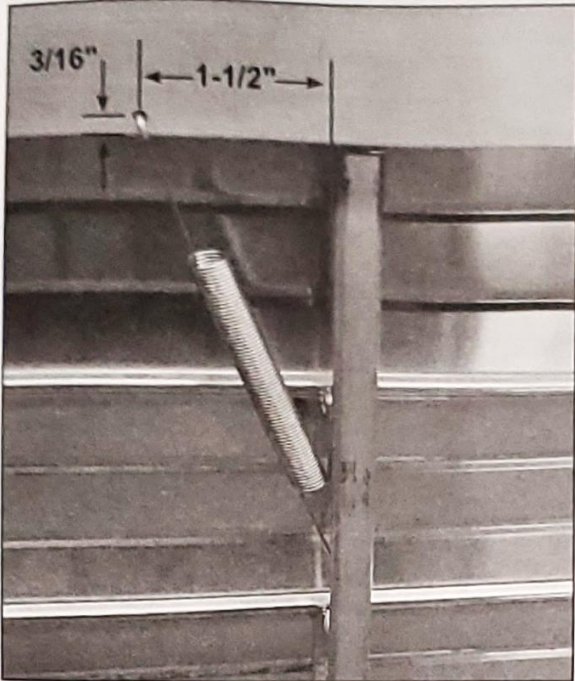
Items used for single panel installation:

- (1) Motor mount bracket
- (4) #8-32 x 3/8" screws to mount bracket to motor
- (2) Springs
- (4) "S" hooks
- (3) #12 screws to mount motor bracket to shutter frame
- (2) Nylon spacers
- (1) Yoke chain
- (1) Lead chain

Tools Required:

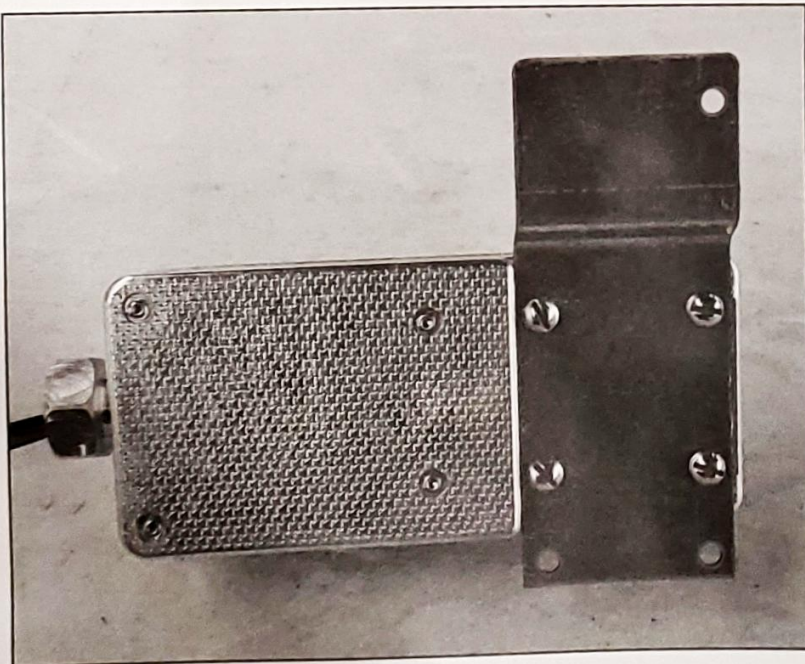
- Tape measure
- Electric drill
- 1/8" drill bit
- 5/16" hex nut driver bit
- 5/32" allen wrench or hex bit
- 1/4" straight blade screwdriver
- Linesman Pliers (or side cutters & pliers)

Mount Return Spring:



- 1) Drill 1/8" hole 1-1/2" on the inside of connecting bar and 3/16" **UP** from lower edge of frame as shown. Repeat on opposite side (see image on previous page).
- 2) Attach the spring through the second hole in the connecting bar and then the 1/8" drilled hole. (Opening the vanes while installing the spring will make this step easier.)

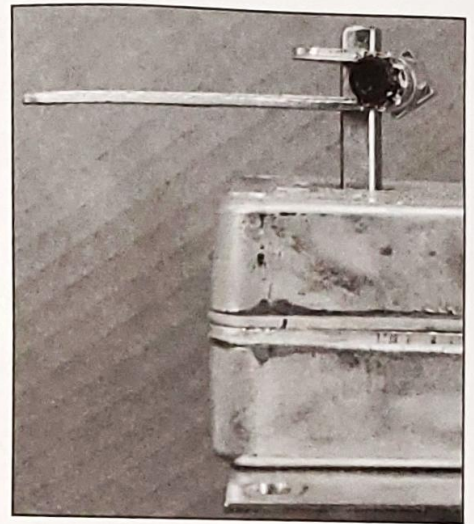
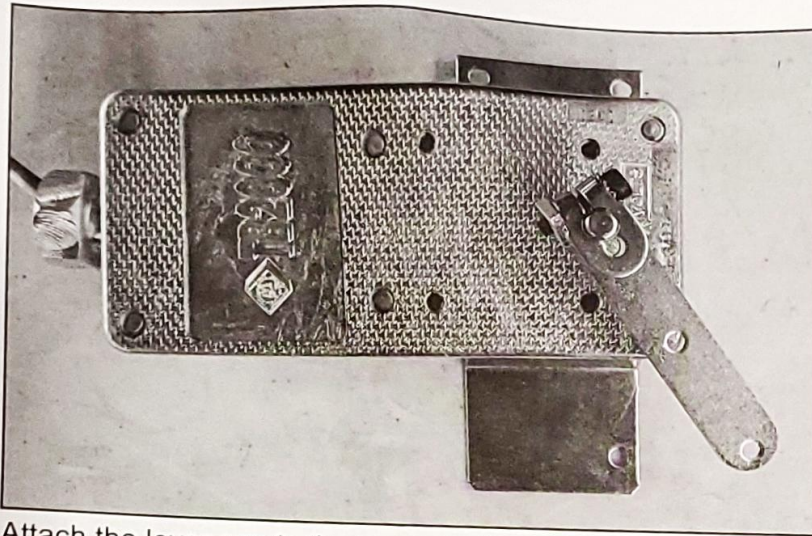
Attach the Motor Mounting Bracket:



Attach the mounting bracket to the motor as shown using four #8-32 screws. Fasten securely.

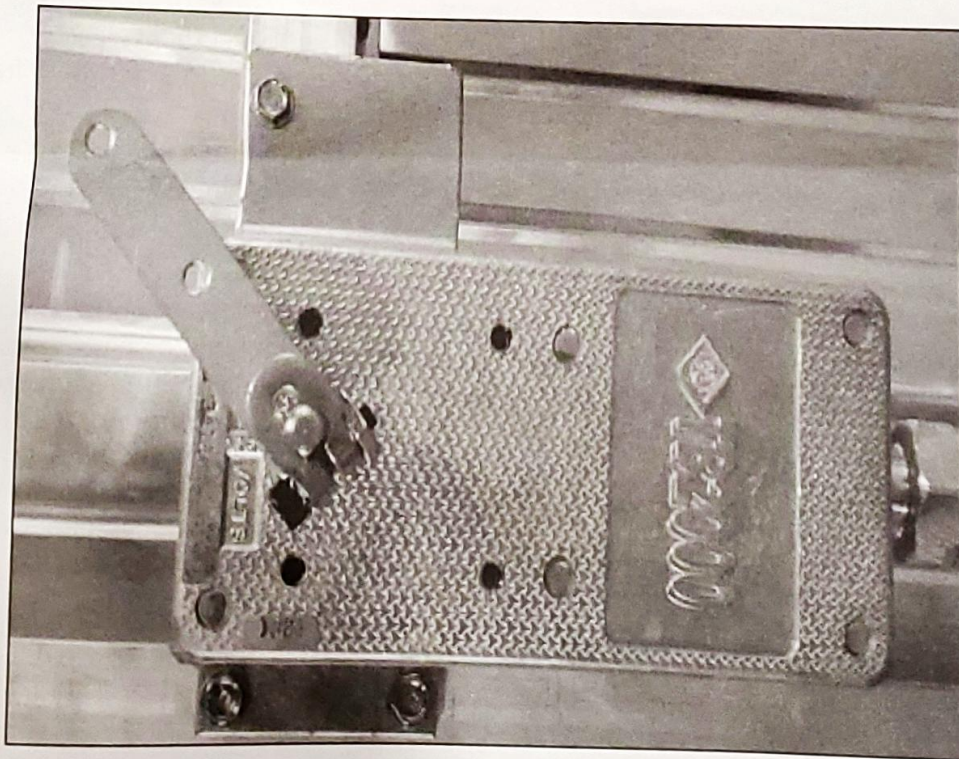
Note: Do not use the lower pair of holes at this time and make sure the upper hole is located towards the right side of the bracket.

Attach Lever Arm to Motor:

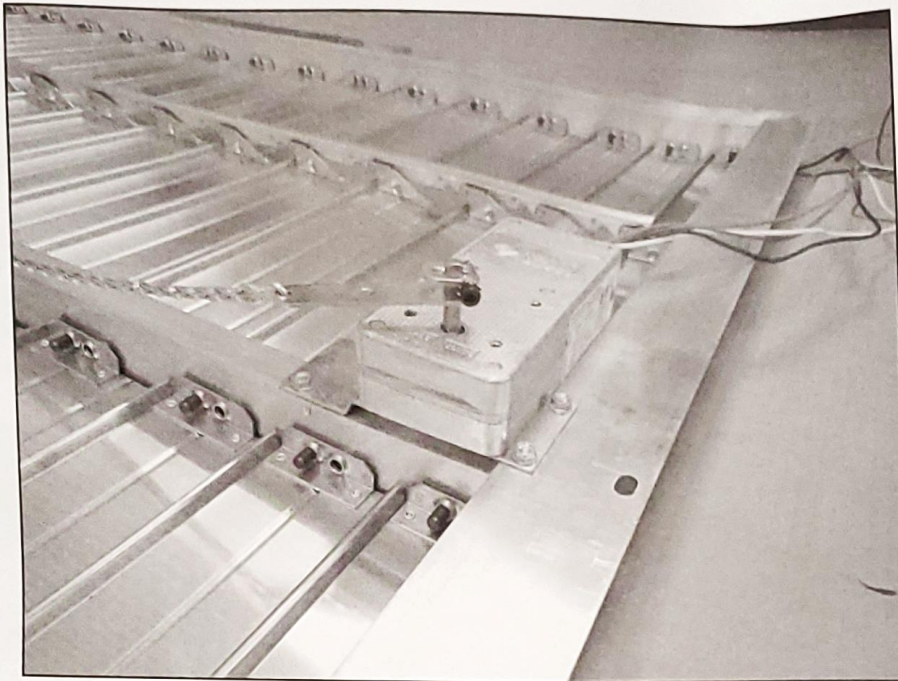


Attach the lever arm to the motor shaft as shown. Align the flat spots of the shaft and the lever.

Attach the Motor to the Shutter:

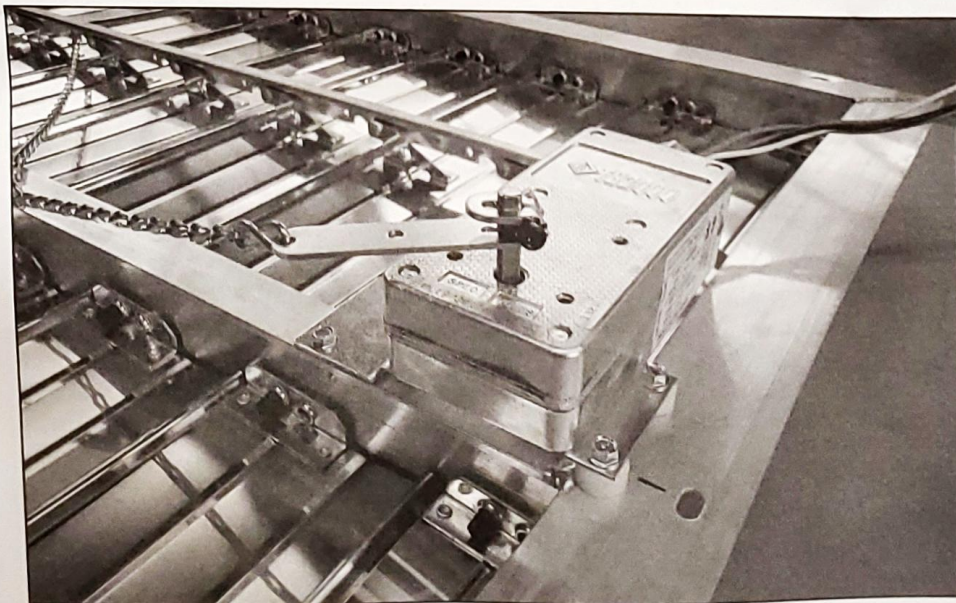


- 1) Measure and mark the center of the shutter frame along its bottom edge.
- 2) Determine if you need to use nylon spacers in the lower two holes.



Shutter with a recessed center bracket. Do not install nylon spacers in lower holes.

Securely fasten to shutter using two #12 x 1" screws in the lower holes and one #12 x 3/4" screw in upper hole.

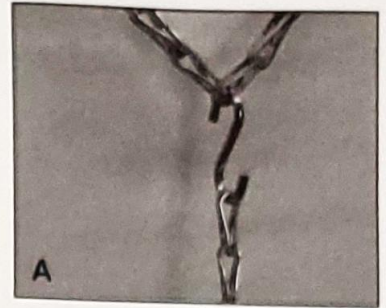


Shutter with flush center brace and welded seam.

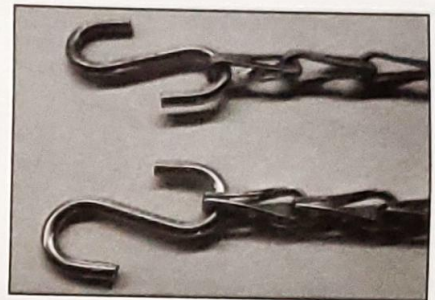
Use a nylon spacer between the shutter and bracket at the lower hole locations and fasten with two #12 x 1" screws.

Fasten the bracket to the center brace using a #12 x 3/4" screw in the upper hole.

Attach Chain:



Detail of yoke chain connection



Proper attachment of chain ends onto "S" hooks

- 1) Attach an "S" hook to the inside of both connecting bars in the third hole from the top.
- 2) Attach one end of the chain to an "S" hook. Attach the chain to the other hook to form a "V" as shown.
- 3) Cut excess chain with a side cutter pliers.
- 4) Attach an "S" hook at the center of the "V". See image A.
- 5) Position the lever arm at 10 o'clock. Attach an "S" hook in the end of the lever arm. Determine the correct chain length so there is tension at the 10 o'clock position. The lever arm will turn counter-clockwise as it opens the shutter.
- 6) Close both ends of the "S" hook attached to the lever arm by squeezing with pliers.
- 7) Wire motor and test for proper operation.

All information, illustrations and specifications provided here are based on the latest product information available at the time of printing. Product specifications subject to change.

SCHAEFER

www.schaeferventilation.com • 800-779-3267

All information, illustrations and specifications provided here are based on the latest product information available at the time of printing. Product specifications subject to change.
©2020 Schaefer® All rights reserved.