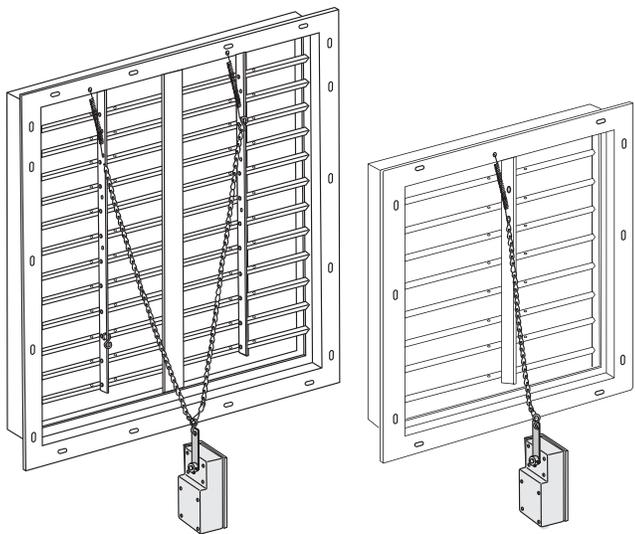
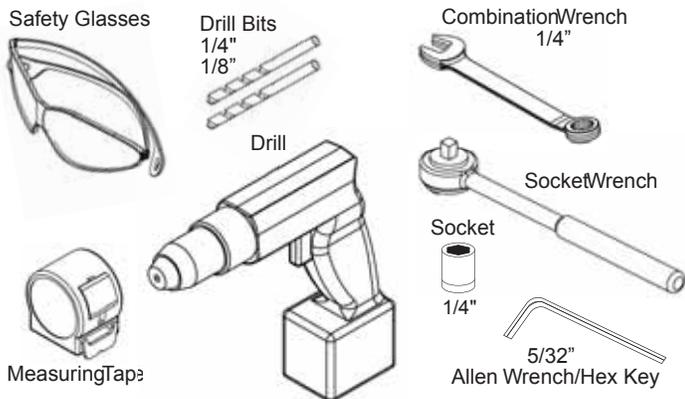


MOTORIZED SHUTTER KIT: Single Motor

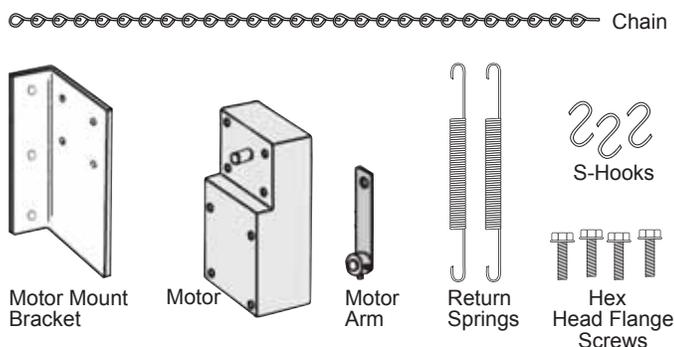


NOTE: Read ALL instructions over carefully before attempting to install the Motorized Shutter Kit!

RECOMMENDED TOOLS FOR ASSEMBLY (NOT PROVIDED)



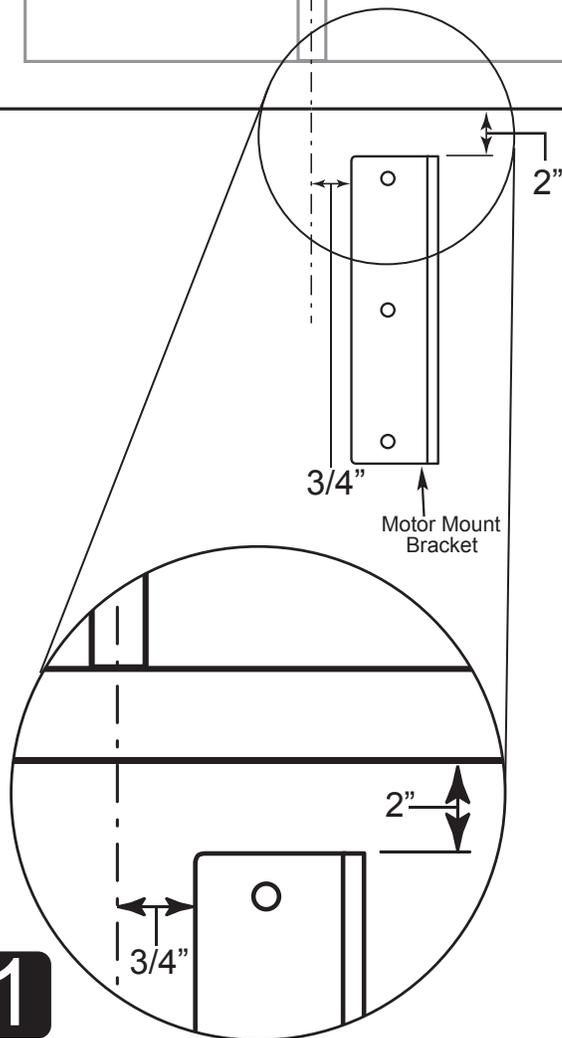
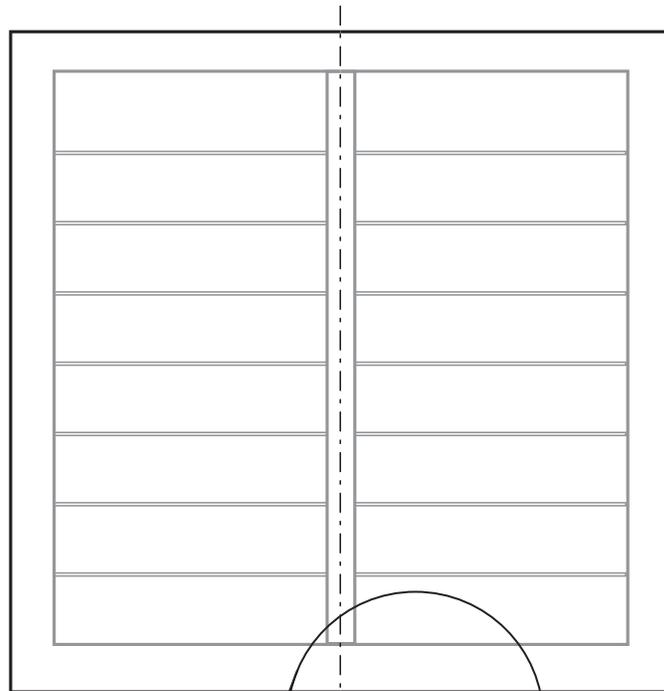
PARTS LEGEND



This first step in installing your motorized shutter kit is very important in the correct operation of your motorized shutter. PLEASE READ AND FOLLOW DIRECTIONS CAREFULLY.

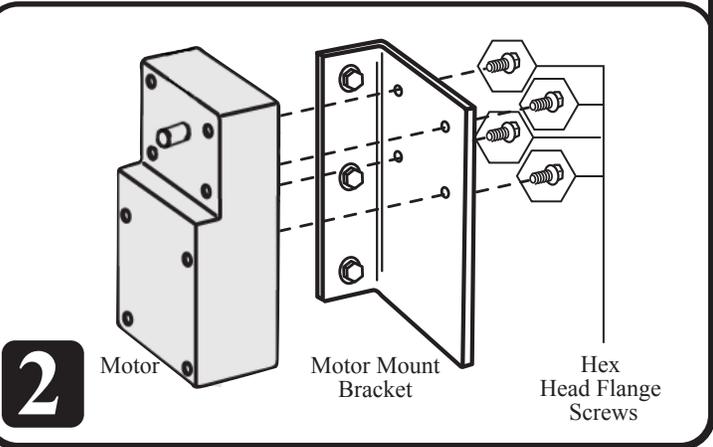
Using a tape measure, locate the exact center of your shutter as illustrated below by the dashed line. Once you locate and mark the center measure 3/4" from that center line as indicated in illustration. Now measure 2" down from the edge of the shutter flange. These two coordinates are what you will use to align the Motor Mount Bracket correctly to your shutter

Secure Motor Mount Bracket in the above defined position using 3 appropriate fasteners (not included) based on your building structure.

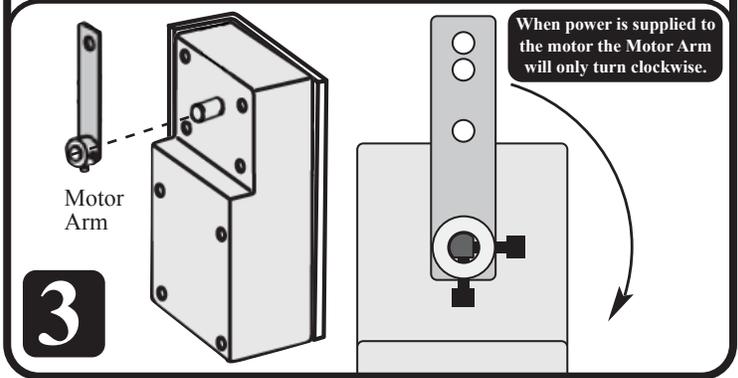


1

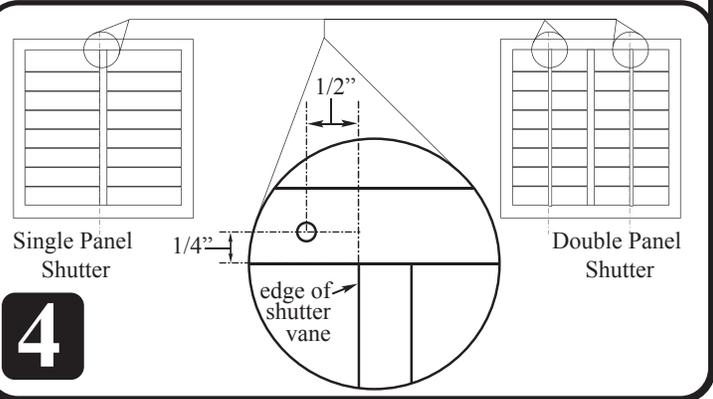
Using the 4 included Hex Head Flange Screws, secure the Motor to the Motor Mount Bracket as shown.



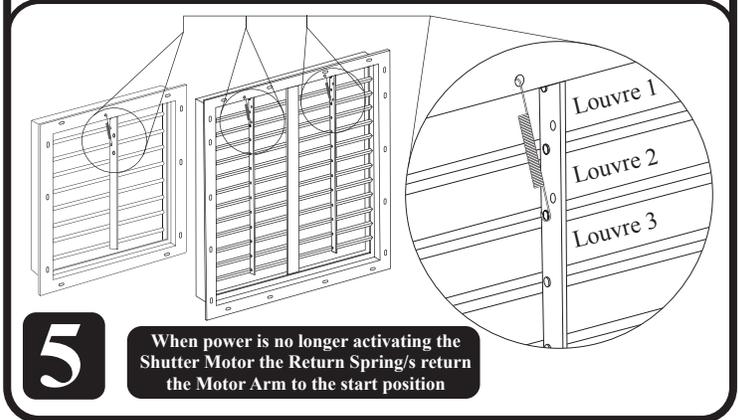
Attach Motor Arm to Motor as shown, making sure to align the flat sides of the motor shaft with the screws, tighten screws with 5/32" Allen Wrench/ Hex Key. Then manually turn Motor Arm until it is straight up and down, as shown in illustration below. (When energized the Motor Arm and Shaft only turn clockwise as viewed below.)



Using a tape measure, mark 1/2" over from the edge of the shutter vane and 1/4" up from the inside edge of shutter as indicated below in illustration. Using a 1/8" drill bit drill a hole through the shutter frame. For Double Panel Shutter you will have to do this for each panel.



Hook one end of Return Spring into hole drilled in step 4. Hook the other end of the Return Spring around the rivet and spacer for the 3rd louvre from the top. For Double Panel shutter you will have to do this for each panel. See illustration.

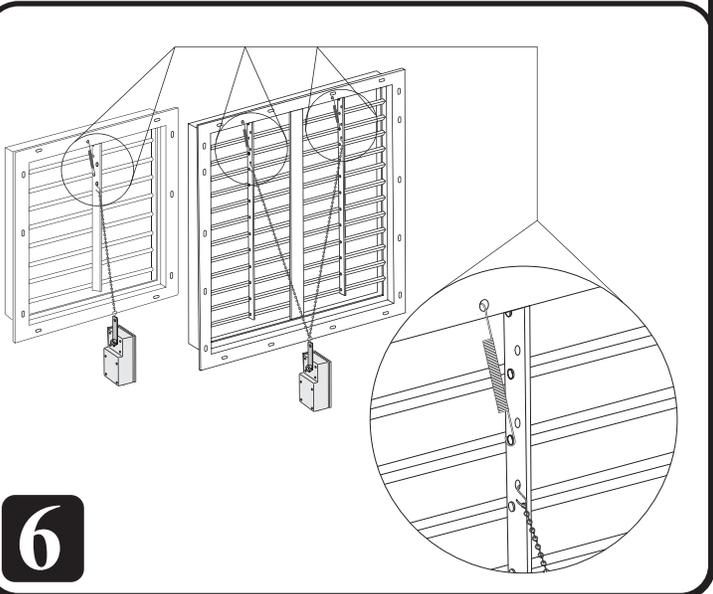


For each panel insert S-Hook into first available hole below Return Spring in shutter vane that will not interfere with the movement of the working Return Spring.

Attach end of chain to S-Hook. Insert additional S-Hook in top hole of Motor Arm and attach chain. The chain should only have a slight amount of slack in this position.

For Single Panel you can now trim the access chain.

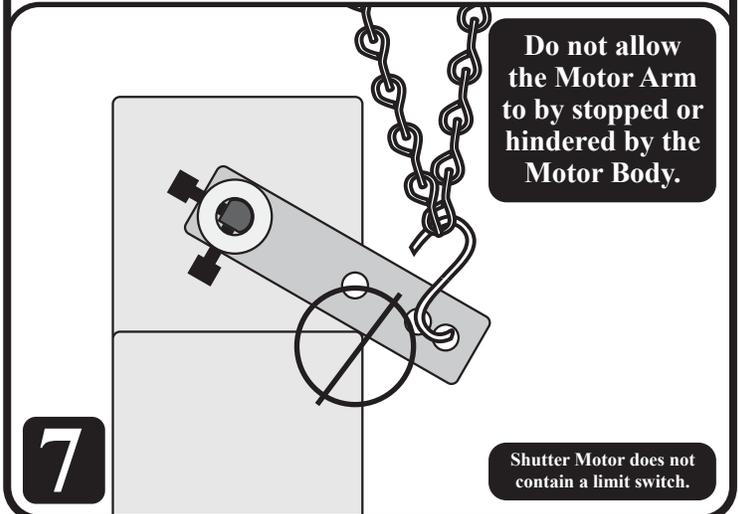
For Double Panel bring loose end of chain up and hook to S-Hook on second panel making sure to leave the same amount of slack as you did for first panel. Trim access chain.



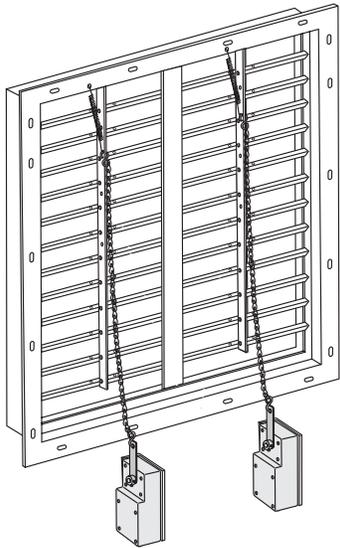
Once you have power supplied to the motor, activate the motor. Watch the Shutter Motor and Shutter Panel movement.

- Make sure panels do not bind during opening or closing
- Make sure that the Motor Arm is not stopped or hindered by the Motor Body as shown below. If this happens remove power to Motor and return Motor arm to upright position and reduce the slack in the chain. **When chain is adjusted properly the Motor Arm is stopped when the shutter tie rod/s travel is halted by the shutter frame.**

NOTE: As long as power is supplied to the Motor it will actively apply force to the Motor Arm as it resists the pull from the Return Spring. The motor can remained energized and applying force for weeks with no ill effect to the motor. Once Power is turned off the resistance of the Return Spring/s will close the shutter and return the Motor Arm to the upright position.

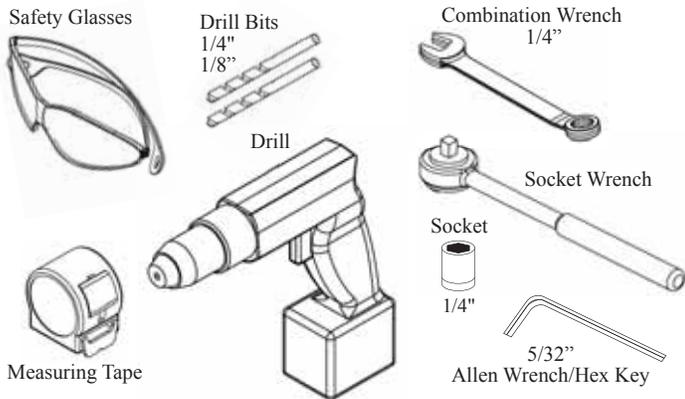


MOTORIZED SHUTTER KIT: Double Motor

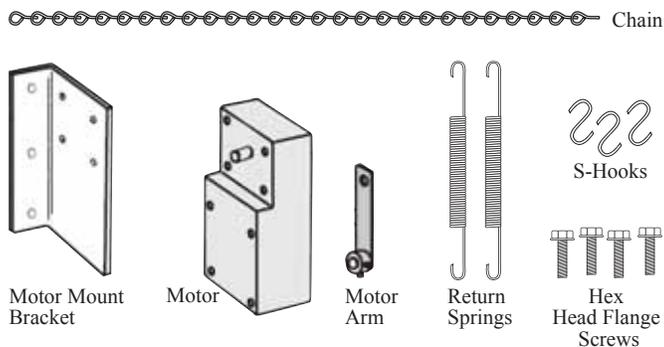


NOTE: Read ALL instructions over carefully before attempting to install the Motorized Shutter Kit!

RECOMMENDED TOOLS FOR ASSEMBLY (NOT PROVIDED)



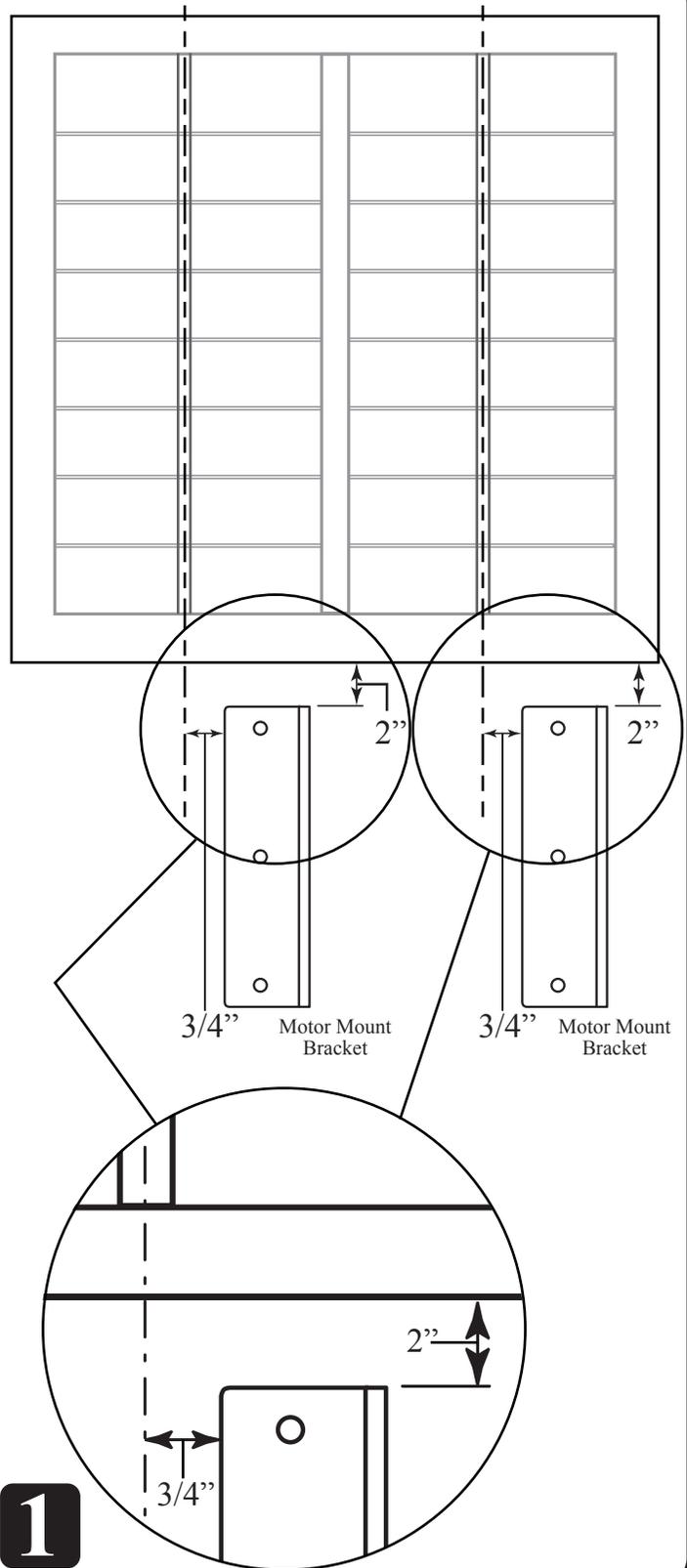
PARTS LEGEND



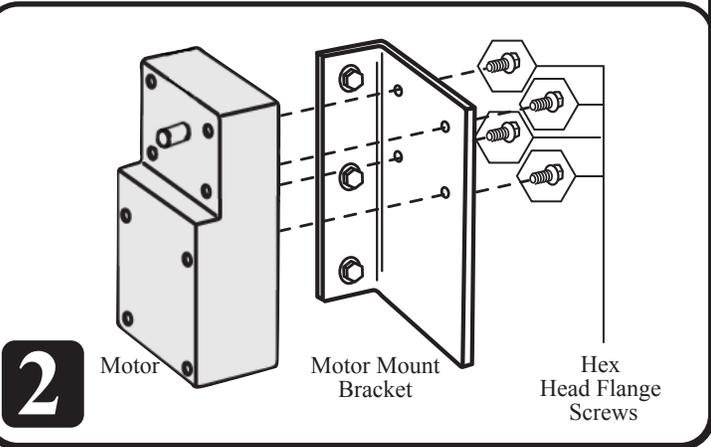
This first step in installing your motorized shutter kit is very important in the correct operation of your motorized shutter. PLEASE READ AND FOLLOW DIRECTIONS CAREFULLY.

Using a tape measure, locate the centers of your double shutter as illustrated below by the dashed lines. Once you locate and mark the center, measure 3/4" from that center line as indicated in illustration. Now measure 2" down from the edge of the shutter flange. These two coordinates are what you will use to align the Motor Mount Brackets correctly to your shutters.

Secure Motor Mount Brackets in the above defined positions using 3 appropriate fasteners (not included) based on your building structure.

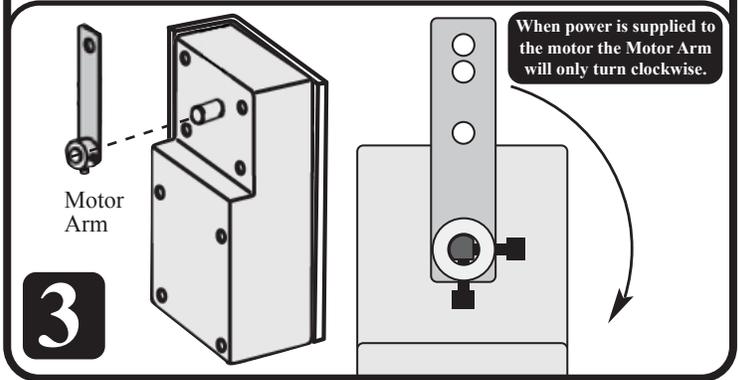


Using the 4 included Hex Head Flange Screws, secure the Motor(s) to the Motor Mount Bracket(s) as shown.



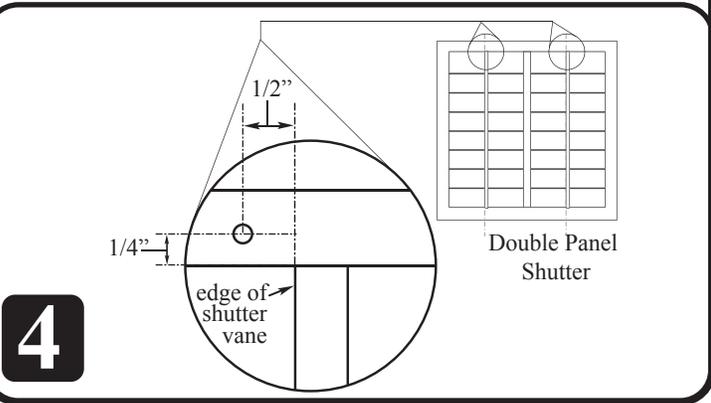
2

Attach Motor Arm to Motor as shown, making sure to align the flat sides of the motor shaft with the screws, tighten screws with 5/32" Allen Wrench/ Hex Key. Then manually turn Motor Arm until it is straight up and down, as shown in illustration below. (When energized the Motor Arm and Shaft only turn clockwise as viewed below.)



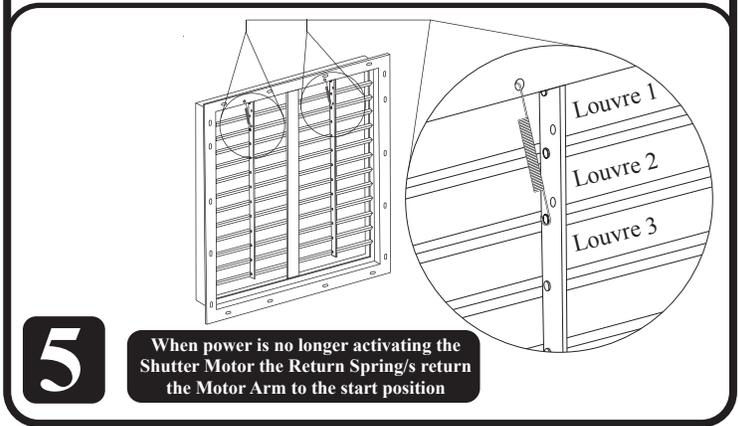
3

Using a tape measure, mark 1/2" over from the edge of the shutter vane and 1/4" up from the inside edge of shutter as indicated below in illustration. Using a 1/8" drill bit drill a hole through the shutter frame. For Double Panel Shutter you will have to do this for each panel.



4

Hook one end of Return Spring into hole drilled in step 4. Hook the other end of the Return Spring around the rivet and spacer for the 3rd louvre from the top. For Double Panel shutter you will have to do this for each panel. See illustration.



5

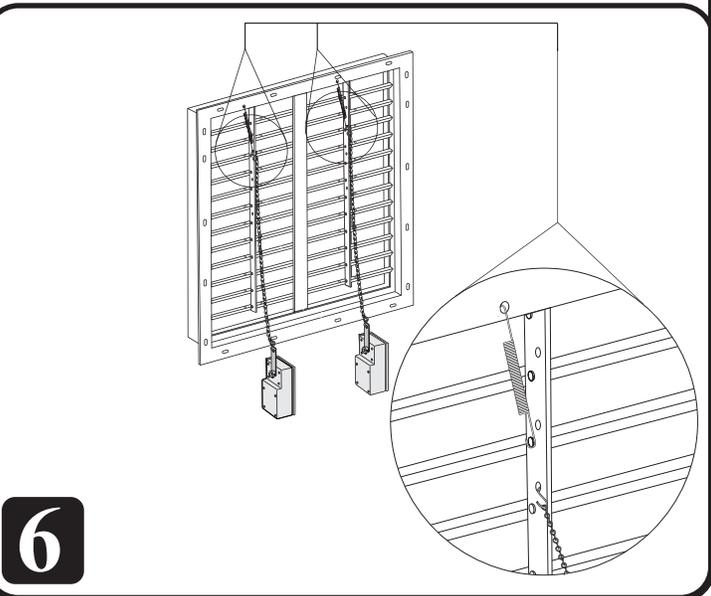
When power is no longer activating the Shutter Motor the Return Spring/s return the Motor Arm to the start position

For each panel insert S-Hook into first available hole below Return Spring in shutter vane that will not interfere with the movement of the working Return Spring.

Attach end of chain to S-Hook. Insert additional S-Hook in top hole of Motor Arm and attach chain. The chain should only have a slight amount of slack in this position.

For Single Panel you can now trim the access chain.

For Double Panel repeat all steps for the second panel as you did for first panel. Trim access chain.

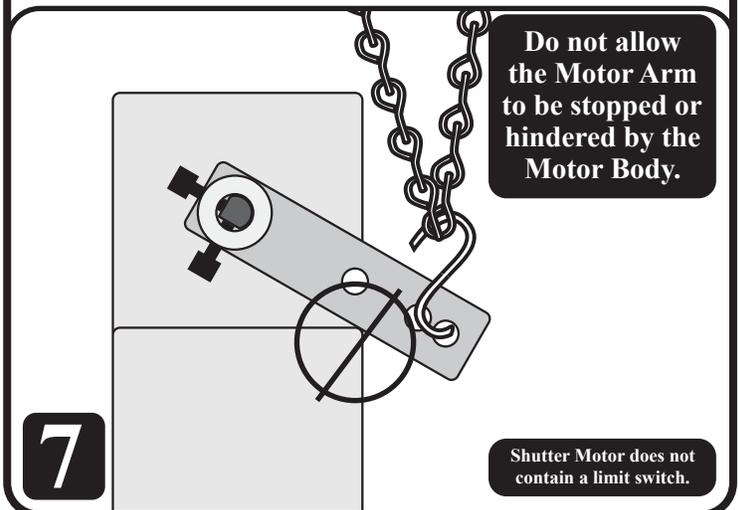


6

Once you have power supplied to the motor(s), activate the motor(s). Watch the Shutter Motor and Shutter Panel movement.

- Make sure panels do not bind during opening or closing
- Verify arms of both motors are oriented identically during operation
- Make sure that the Motor Arm is not stopped or hindered by the Motor Body as shown below. If this happens remove power to Motor and return Motor arm to upright position and reduce the slack in the chain. **When chain is adjusted properly the Motor Arm is stopped when the shutter tie rod/s travel is halted by the shutter frame.**

NOTE: As long as power is supplied to the Motor it will actively apply force to the Motor Arm as it resists the pull from the Return Spring. The motor can remained energized and applying force for weeks with no ill effect to the motor. Once Power is turned off the resistance of the Return Spring/s will close the shutter and return the Motor Arm to the upright position.



7

Do not allow the Motor Arm to be stopped or hindered by the Motor Body.

Shutter Motor does not contain a limit switch.