



# Motorized Shutter Kit Instructions

**WARNING:** This kit requires high-voltage wiring which should only be completed by a licensed professional.

**NOTE:** This kit is designed to suit a variety of applications and therefore the installation will vary. This is a simple overview of an installation option and is not meant to be fully comprehensive.

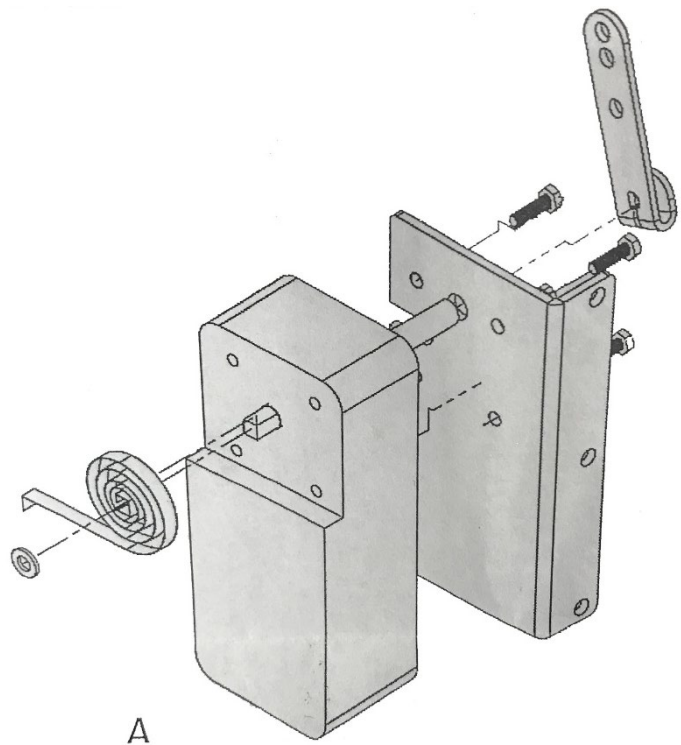
**INSTRUCTIONAL VIDEO:** “VES Exhaust/Intake Shutter Kit Installation Video” can be found on YouTube. [www.youtube.com/watch?v=yNiFgpKnJul](http://www.youtube.com/watch?v=yNiFgpKnJul)

Materials Included
1 Actuator Motor
1 Actuator Return Spring
1 Motor Mount Plate
1 Lock Washer
1 Motor Arm
2 S-hooks and 1 Chain
4 Mount bolts

Recommended Tools (not provided)
3 Wood Screws
Screwdriver
1/2" Wrench
7/16" Wrench
Wire clippers
Water proof wire couplings
3/4" threaded conduit

## INSTRUCTIONS

1. **Unpack the kit and ensure all parts are present.**
2. **Secure the Motor Mount Plate.** This kit can be mounted in multiple orientations but must be placed directly below the center of the shutter and should be screwed into a solid sub-structure.
3. **Assemble actuator kit.** Figure A depicts the assembly of the kit. Use the 1/2" wrench to tighten the mounting bolts. The 7/16" wrench should be used to tighten the motor arm lock bolt. Tighten it far enough on the shaft as to not interfere with the mount bolts. Figure C depicts an incorrect assembly of the motor arm. Make sure that the motor arm is not stopped or hindered by the motor body.



4. **Connect Chain and S-Hooks to Motor Arm.** As Figure B shows, one S-hook should connect to the center louver-pull and one should connect to one of the three holes on the motor arm (hole choice will vary based on individual application). The included chain should be linked between the two hooks and excess links should be removed and disposed of.
5. **Connect wires and conduit.** Ensure all connections and conduit are fully weatherproof.

**WARNING:** Wiring should only be completed by a licensed electrician. 240 Volt and 120 Volt options are available and must be wired accordingly for safe and reliable performance. Please follow the wiring diagram found on the side of the motor for further details.

6. **Powering the actuator.** When powered “on” the motor arm will rotate and tension will increase in the spring until the chain is fully tightened and the shutter is opened. After the power supply is turned “off”, the spring will return the motor arm back to the home position and the shutter will fully close.

