

Somfy ST40 Motorized Shade Mounting Instructions

Please read installation instructions and programming instructions completely prior to proceeding with installation and programming. Failure to do so can result in damage to the motor and/or the shade and void the warranty.

Items & Tools Required

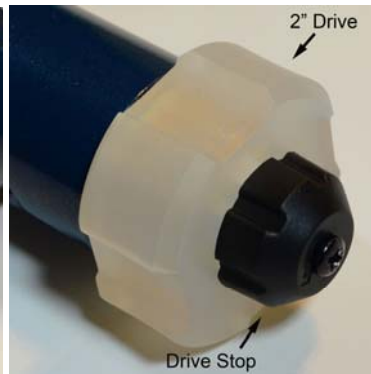
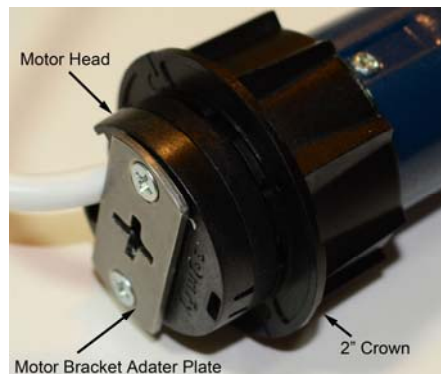
- Roller Shade
- ST40 Motor with crown and drive pre-installed on motor
- Roller Shade Brackets
- Screws – Appropriate for brackets and mounting surface. (Provided by installer -Not included)
- Tape Measure – Typically only needed for outside mount shades.
- Drill (Optional)
- Pencil
- Masking Tape (Might be needed)
- Level (Depending on installation type)
- 2 people for long or heavy shades.

Installation and Preparation

1) Inspect Motor

Shade motors are shipped outside of the tube to protect the motor from damage. The ST40 motor should have the crown and drive preinstalled as shown.

Note: The motor crown should be next to the motor head. This motor uses a 2-piece crown that snaps together on top of the native motor crown. It is unlikely the crown will move or fall off. If you need to reposition the crown, observe and align the keyways next to the motor head and in the ID of the crown (not shown) when repositioning and snap the crown together.



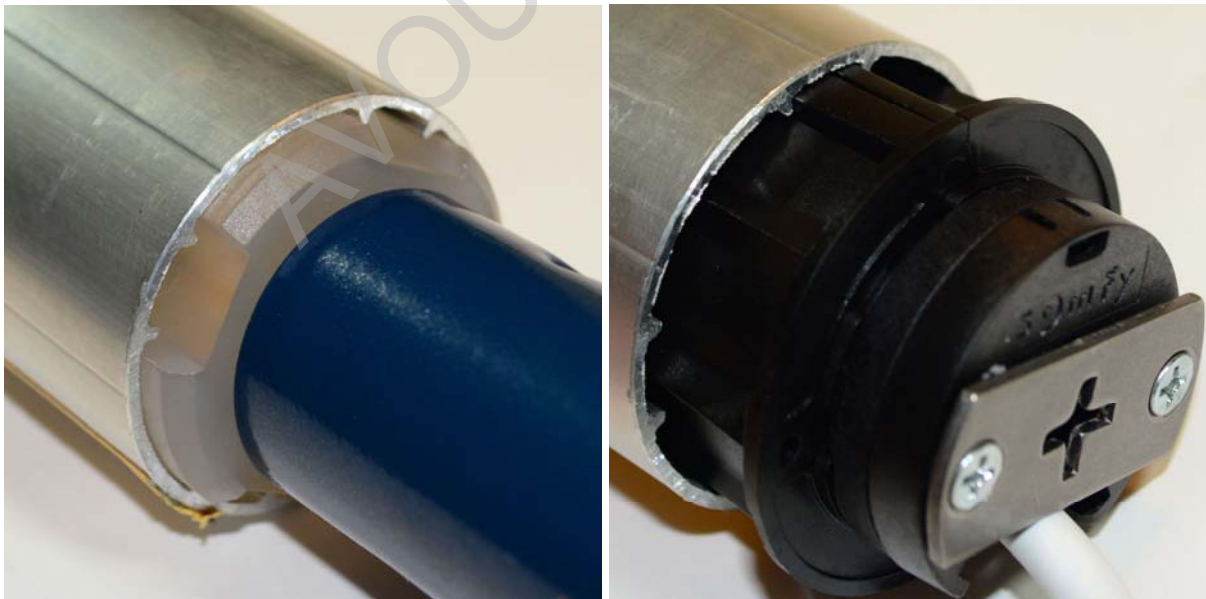
2) Inspect Shade Tube

The shade tube will have internal ribs/keys that will match the motor crown and drives.

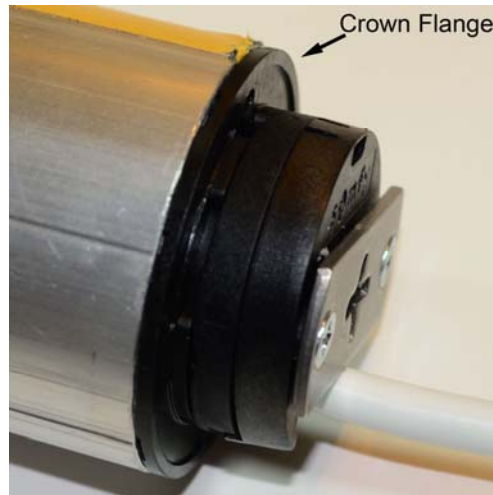


3) Install Motor

Align the motor crown and drive keyways to the internal ribs and slide the motor into the tube.



The motor needs to be fully seated in the tube as shown. Push the motor into the tube until the flange of the crown is touching the tube. Generally, the crown is a tight fit so some resistance may be felt here.

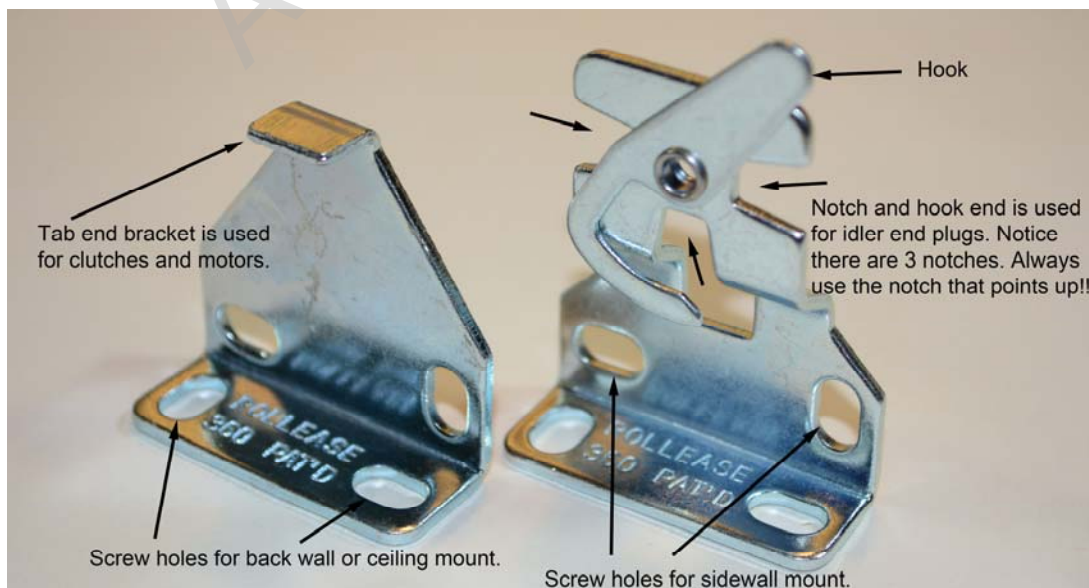


Important!! - Always hold the motor so that the motor does not slide out when transporting the assembly. The motors are not held in with screws and can slide out.

4) Evaluate Brackets

The supplied shade brackets have screw holes that allow for side-wall, back-wall or ceiling mounting. The tab end bracket goes on the motor side. The tab slides into the motor head. The notch and hook bracket end goes on the idler end plug side. The tab end bracket will go on the side of the shade that you specify as the drive side. Notice the hook end bracket has 3 grooves and a hook. Use the notch that faces upward when mounting your shades so the shade does not fall if the hook gets moved out of place.

The fascia brackets (not shown) have similar features and are used to hold both the shade and fascia.



5) Determine Bracket Spacing.

Shades ordered as Tip to Tip measurement (inside or outside mount) – The outside edge of the brackets will be placed at the width that the shade was ordered. If you ordered a shade that is 24 1/4" wide, the outside edge of the brackets should be at 24 1/4".

Shades ordered as Material Width measurement – Set the shade on a flat surface and put the brackets on the shade assembly. Measure the overall width from outside of the brackets to find the tip to tip measurement for the bracket placement.



6) Evaluate Mounting Area

Use the appropriate screws for the weight of the shade and mounting area. Most windows have a wood header and framing surrounding them so using wood screws or drywall screws will suffice for most. Shades being mounted into metal frames should be done with self-tapping sheet metal screws. Shades mounted where only sheetrock is present should use wall anchors that are appropriate for the weight of the shade.

7) Mount Brackets

- a) Mark the locations for your bracket locations with a pencil at the tip to tip bracket spacing (previously discussed). Check that the marked area is level using a bubble level or other appropriate method. Hold the outside edge of the bracket at your pencil mark. You will have 2 slotted screw holes in the brackets. Make centered lines both lengthwise and at the middle of the slot in the screw locations. Be sure to put the marks at the center of the slots so that you have room to adjust the brackets later.
- b) Pre-drill your holes at the marked locations. This will prevent trim from cracking and will allow the screws to be installed more easily.

c) Mount your brackets with the appropriate screws. Be sure to use the correct bracket for each side of the shade (previously discussed). Do not over tighten screws. This may result in the sheetrock being compressed and the shade not fitting properly.

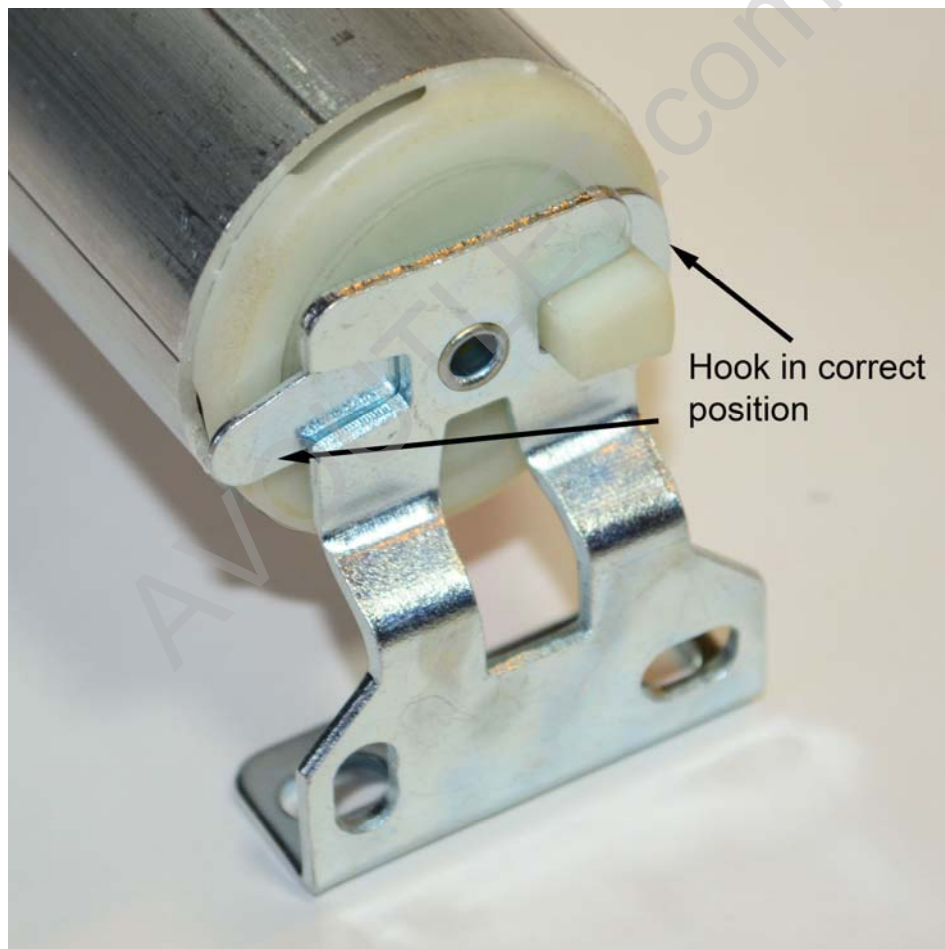
8) Install Shade - *We recommend 2 people handling the shade during installation.*

Important!! - Always hold the motor so that the motor does not slide out when transporting the assembly. The motors are not held in with screws and can slide out.

a) Insert the motor head end of the shade assembly onto the tab of the motor bracket.

b) Place the idler end plug into the opposite bracket and make sure you use the V-Groove on the top of the bracket. If you use the other v-grooves, the shade may fall.

c) Flip the hook lever over on the end plug bracket to protect the shade from being inadvertently knocked off the brackets.



9) Level Shade

Use a bubble level to check your shade installation. A small amount of out of level is typically OK but we prefer perfection. If the shade tube is out of level the material can walk off the tube during rotation and get damaged. As necessary shim or reposition brackets so the shade tube is level. Double check the mounting bracket screws to ensure all are in place and properly tightened.

10) Program Shades – Keep reading here first!!

Connect power to your motor correctly. The ST40 motors require 120V AC power. Damage to the motor due to improper power connection will void the warranty.

Please use the motor specific instructions provided with your motors. If they were not included, please email us, call us or visit our website for the specific motor instructions. The remote-control instructions can be used for reference but are not as accurate as the motor instructions.

Important!! Be prepared to stop the shade during programming. Know your motor and remote control before proceeding.

During the first operation and before setting the limits, we recommend unrolling the shade (with the motor) down past the lower limit but not so far that the tube is completely exposed. This is to ensure the material is properly seated and aligned to the tube. Caution: The shade material is affixed to the tube using double sided tape. Do not unroll the shade to the point where it is stressing the tape. The programming step for the first limit will activate the motor to move without stopping!! You will need to stop the motor using the remote control or the shade and motor can get damaged.

Look for material walk-off. If the material walks off do not finish programming the shade and skip to troubleshooting.

Troubleshooting

Shade Material Walk-Off

If your shade walks off to one side and repositioning brackets has not fixed the problem, you can use the following procedure to fix walk-off. Causes for material walk-off are out of level brackets, but most commonly caused variations in material thickness or less common, the material can be slightly misaligned to the tube. Walk off is repeatable and can be fixed. Before attempting to fix the walk-off you need to unroll the shade all the way to the end where the material is applied to the tube and then roll it back up to ensure the material is aligned to the tube.

Walk-off needs to be fixed so that the material does not roll into the end components of the shade which can damage the material. A small amount of walk-off is acceptable.

- a) Note the direction of the shade material walk off. (Left or Right)
- b) Roll the shade all the way down.
- c) Look for debris on the tube or on the material that may cause a material thickness variation and remove as necessary. If the debris is found, try rolling the shade up and down to see if the material walk-off is still present.
- d) If the material still walks-off, take a piece of masking tape (couple inches in length) and apply it to the material at the tube (not on the tube) of the unrolled shade on the end opposite the direction of the shade material walk off.
 - If the shade walks off to the right put the tape on the left.
 - If the shade walks off to the left put the tape on the right.
- e) Test the shade again to see if the material still walks off. If the material still walks off, apply another layer of masking tape on top of the previous one(s). Several layers of masking tape may be required to fix the walk-off. Tip!! The further you put the tape towards the end of the tube the more it effects walk-off. Depending on how the material is walking off you can also place tape at several locations on the material. The goal is to use as little tape as possible. Adding a very thick layer of tape can cause the hem bar to appear out of level when rolled up.

Note for Motorized Shades

The motors are not rated for continuous use. If you are working on this procedure and having to bring the shade up/down many times the motor may overheat and stop responding. The internal temperature sensors will shut down the motor and you must wait until the motor cools before proceeding. This is normal and does not hurt the motor.

Please feel free to contact us if you require further assistance.
www.AVOutlet.com 1-877-271-5398 or email sales@avoutlet.com