

Roller Shade Installation Instructions

Using a Battery Motor & Attached Wand Control in a Cassette Mount

Please read all instructions before starting

INTRODUCTION:

The **Roller Shade Motorized System** is used to electronically control the shade using a motor and attached wand control. By using the attached wand control, the operator can raise and lower the shade smoothly and precisely. **Figure 1** shows an assembled roller shade battery motor and wand control in a cassette mount.

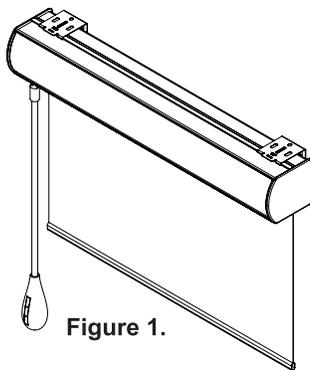


Figure 1.

The **Roller Shade** can be mounted either inside or outside the window casing. Use the smallest diameter roller tube for your application to ensure you have space inside the cassette when the shade fabric is completely rolled up. The shade can be regular wind or reverse wind as shown below in **Figure 2**.

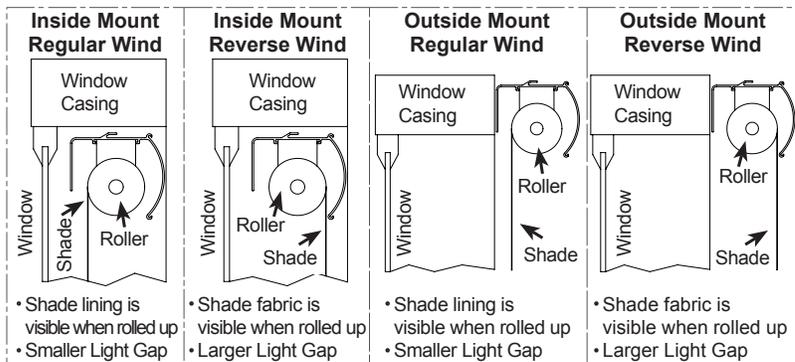


Figure 2. Side view on the top portion of the window

ALLOWABLE SHADE SIZES & WEIGHTS:

Tubular Motor Item #	Motor Type	Tube Dia.	Maximum Shade Size	Minimum Shade Cloth Width/Roller Tube Length	Maximum Shade Weight
RTMLW25	Battery	1 1/4"	84" x 84"	21 1/2"	15.5 pounds
		1 1/2"	84" x 84"	21 1/2"	13.0 pounds

PARTS LIST. See Figure 3.

1. Tubular Motor
2. Aluminum Roller
3. End Plug
4. Wall Brackets
5. Cassette Brackets
6. Crown and Drive Set
7. Motor Mount Plate with Screws
8. Tube Adapter (as required)
9. Control Wand
10. Cassette
11. Cassette End Caps

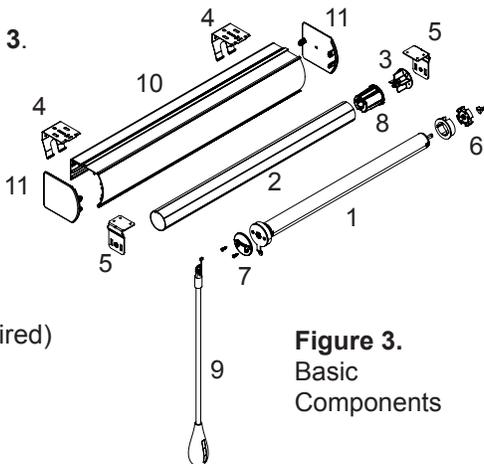


Figure 3. Basic Components

CASSETTE DIMENSIONS. See Figure 4.

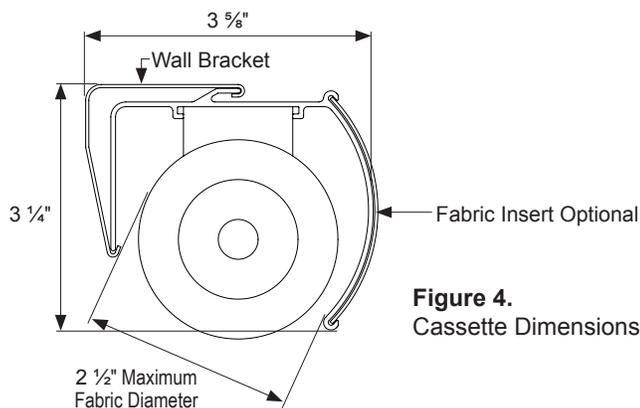


Figure 4. Cassette Dimensions

MEASUREMENT:

Step 1. See Figure 5.

A. Inside Mount: Measure the Width inside the casing (jam-to-jam, or casing-to-casing), where the cassette will be installed; and the Length from the top of the cassette to the bottom of the window. Mark your location.

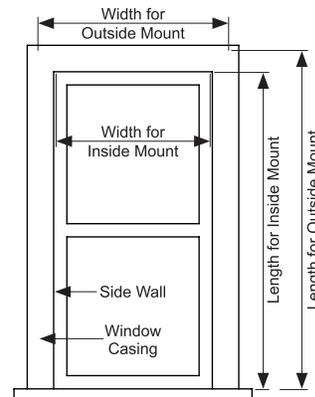


Figure 5. Measurements on a window

B. Outside Mount: Measure the Width outside between the outer edges of the window trim where the cassette will be installed; and the Length from the top of the cassette to the bottom of the window. Mark your location.

NOTE: Measure all windows for accuracy even though they may look the same.

FABRICATION:

Step 2. Use a fine tooth hacksaw to cut the cassette to the proper length. The length of the cassette should be the overall width you measured in Step 1 minus 1/4" to allow for the cassette end caps.

NOTE: Be sure to mark and cut the cassette straight and not at an angle as it will not allow the end caps to fit properly.

FABRICATION:

Step 3. Cut shade cloth and aluminum roller.

A. Chart for Shade Cloth Width/Roller Tube Length

Tubular Motor Item #	Motor Type	Tube Dia.	Shade Cloth Width/ Roller Tube Length
RTMLW25	Battery	1 1/4"	Overall Width - 1 3/8"
		1 1/2"	Overall Width - 1 7/16"

B. Chart for Shade Cloth Length (Finished Shade Cloth Length allows for a bottom bar pocket and to wrap around the roller at the top):

Tube Dia.	Finished Shade Cloth Length
1 1/4"	Length + 11"
1 1/2"	Length + 12"

NOTE: Cut the shade cloth square to ensure the shade will travel up and down and not track to the left or right.

INSTALLATION:

Step 4. Mount the brackets to the window casing according to the marked locations in **Figure 5** (see page 1). **Figure 6** shows the proper placement options. Brackets should be mount no more than 4" from the end of the cassette. For long cassettes, use more wall brackets. Maximum 6' between wall brackets, depending on the weight of your shade.

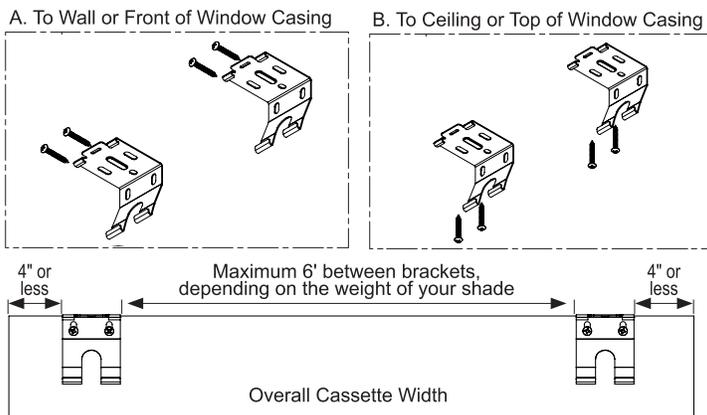


Figure 6. Install Brackets

Step 5. Install the motor mount plate to the tubular motor by using the screws provided and a Phillips screw driver, as shown in **Figure 7**.

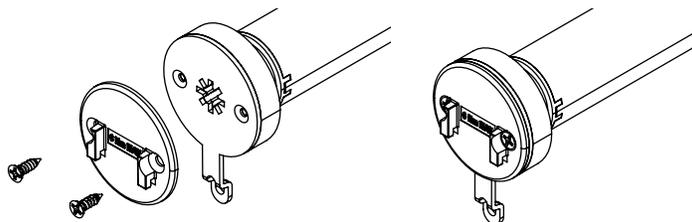


Figure 7. Install the Motor Mount Plate

Step 6. Slide the crown onto the motor as shown in **Figure 8**.

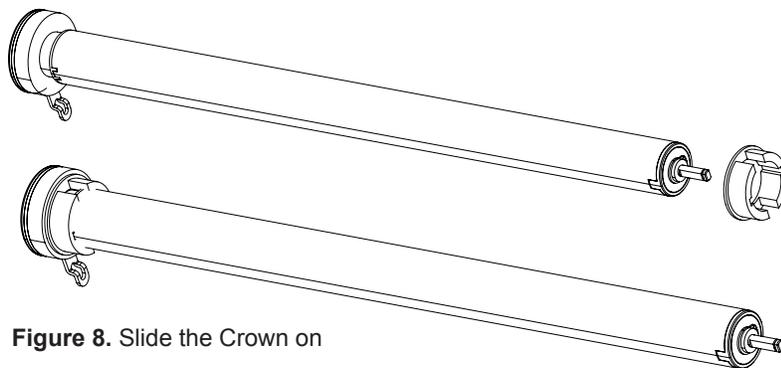


Figure 8. Slide the Crown on

Step 7. Slide the driver onto the end of the motor shaft. Then snap the drive retainer onto the motor shaft as shown in **Figure 9**.

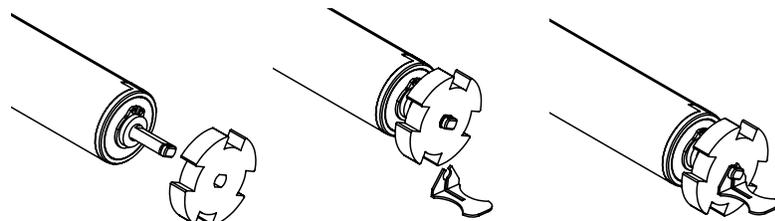


Figure 9. Slide the Driver on

Step 8. Insert the end plug (and tube adapter where required) and the motor assembly into the roller tube. Make sure to line up the tabs on the tube with channels on the driver and crown as shown in **Figure 10**.

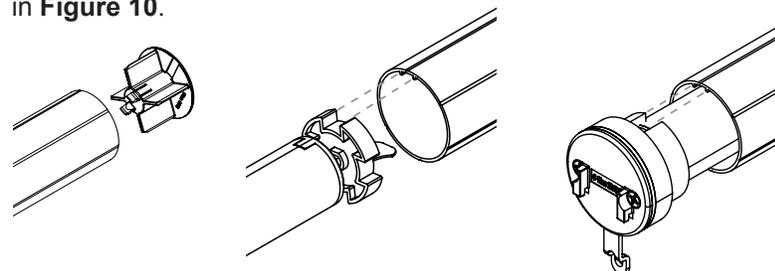


Figure 10. Insert the End Plug and Motor Assembly

Step 9. Insert a cassette bracket into the cassette as shown in **Figure 11**. Tap into place with a hammer until the bracket is even with the end of the cassette. Repeat for the other end.

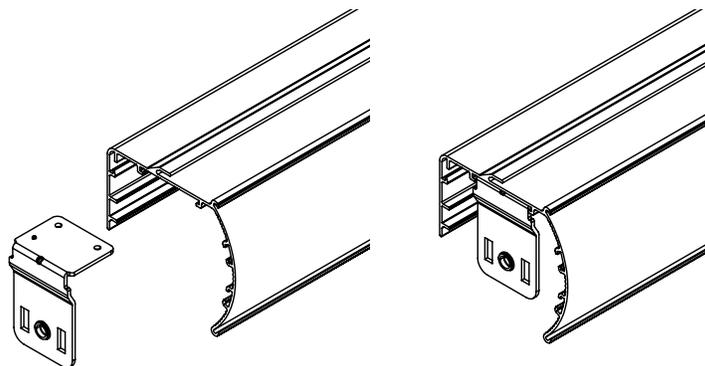


Figure 11. Cassette Brackets

Step 10. To install, insert the pin on the end plug into the center hole of the cassette bracket shown in **Figure 12A**. While putting pressure on the spring pin install the motor end onto the other bracket. The spring pressure will allow the tabs on the motor end to seat into the cassette bracket as shown in **Figure 12B**.

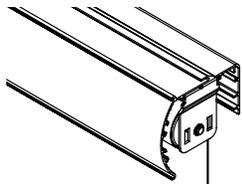


Figure 12A.
End Pin Side

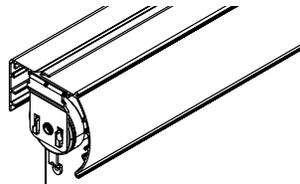
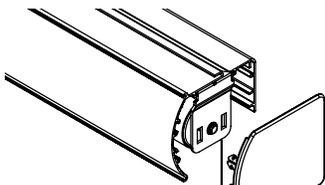
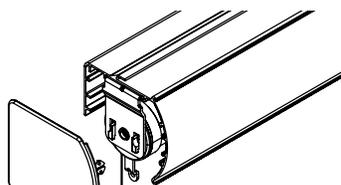


Figure 12B.
Motor Side

Step 11. Insert the cassette covers onto the cassette as shown in **Figure 13**.



End
Pin
Side



Motor
Side

Figure 13.
Cassette
Covers

Step 12. Hook the channel that's on top of the cassette onto the wall bracket as shown in **Figure 14**. Then rotate the entire cassette until it snaps onto the lower hook on the bracket.

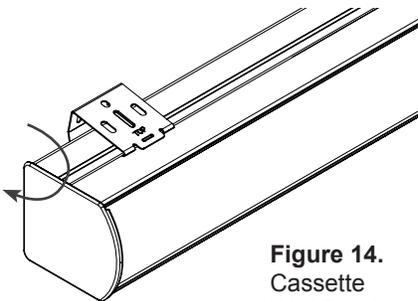


Figure 14.
Cassette
Wall Brackets

Step 13. Hook the control wand onto the tab on the motor and plug the power cord into the motor as shown in **Figure 15**.

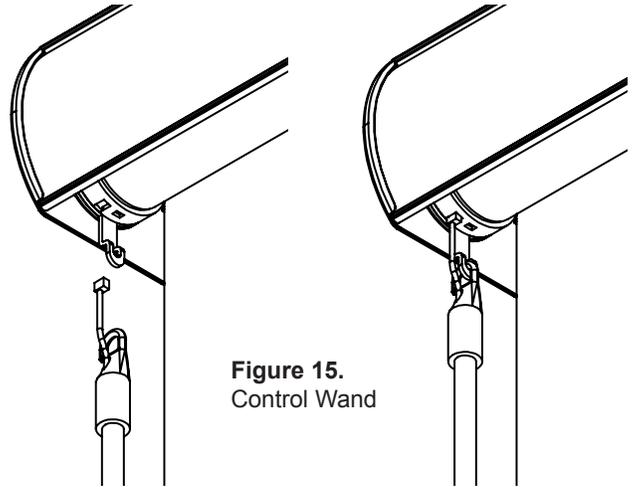


Figure 15.
Control Wand

How to get started using your Motorized Roller Shade System with a Battery Motor with Wand Control in a Cassette Mount:

- Please read all the instructions provided with your tubular motor.
- Your motor will be shipped in “sleep mode” and must be woken up before using.
- Keep the cords and any loose fabric away from the rotating parts of the roller shade while in use.
- Only use charging options for your motor that are available through Rowley Company.
- Charge the battery motor fully before its first use, which will take approximately 6 hours.

