

Laminated Roller Shade & R-TEC Automation® Wirefree Tubular Shade Motors Assembly

Learn the fabrication methods in creating an R-TEC Automation® Shade System for Roman and roller shades as an easy and safe shade option for your home.



Materials & Supplies

Rowley Products

Room Darkening Window

Item

[JV36/](#)

Shade Cloth

Laminating Adhesive

[FA40](#)

Fray-Away-Spray

[AS41](#)

R-TEC Automation™

[R-TEC](#)

Other Materials Used:

Paint Rollers with a 1/4" nap (2)

Laminated Roller Shade & R-TEC Automation® Wirefree Tubular Shade Motors Assembly: Step-By-Step Instructions

For roller shades the shade cloth should be approximately 3" wider than the finished shade. Roller shades need to be made at least 12" longer the finished length to allow a few rolls of the fabric to wrap around the roller tube.

Laminated Roller Shade:

- 1 Place the shade cloth on the table and tape into place.



- 2 Pour the laminating adhesive onto the shade cloth.



- 3 With a clean paint roller, begin rolling the shade adhesive to the shade cloth, rolling in all directions for complete coverage. The adhesive will begin to become tacky the more you work the roller along the shade cloth. Be patient, this will take a few minutes.



- 4 Roll the fabric, which is still on a fabric tube, over the shade cloth. Smooth in place by hand and then follow up with a clean, dry paint roller. Again, move the roller in all directions to get a good adhesion between the shade cloth and the fabric.



- 5 Allow the shade to rest and dry 6 - 8 hours.

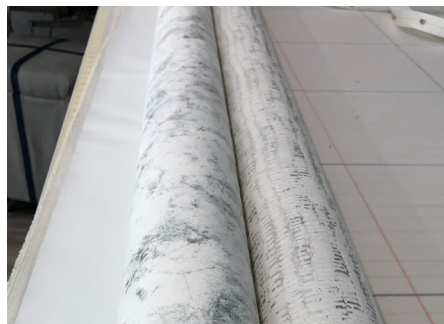
- 6 Cut the shade cloth to the finished size. Remember the finished shade length will be 12" longer than finished length.



- 7 Use Fray-A-Way spray along the edges of the fabric shade to prevent the fabric from fraying.



- 8 Roll the shade around a fabric tube or aluminum tube in the direction you want the shade to roll and let it rest for several hours.



- 9 Before attaching the shade to the tube, fold a bottom hem and stitch a pocket for the wooden shade slat.



- 10 To attach the shade to the aluminum tube, remove the protective paper from the tube and carefully attach the laminated shade cloth to the tube.



Wirefree Tubular Motor Assembly:

The motorized tube and brackets will fit on a 1" x 3" board. Cut this to the size needed for the shade mount.

- 1 The crown and drive set will allow the motor to fit snugly into the shade tube.

Watch this video for a closer explanation of how to assemble a motorized shade tube:

[How To Assemble an R-TEC Automation™ Shade Tube](#)



NOTE: Fully charge the battery for 6 hours before usage.

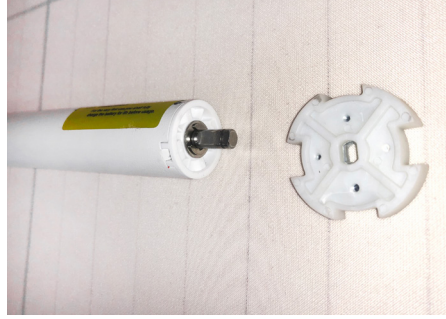
- A. Start by attaching the motor adapter to the end of the motor. Line up holes between the motor adapter and end of the motor and attach with screws provided.



- B. Slide the crown onto the battery tube, lining up the notch and grooves.



C. Attach the drive to the pin end of the motor.



D. Attach the motor drive clip to hold the drive in place.



E. Slide the shade motor into the aluminum tube, lining up grooves and notches.



F. Insert the end pin into the other end of the shade tube.



- 2 Attach the brackets to the board.
- 3 Insert the assembled motorized tube into the brackets.



- 4 This motorized tube is now ready for a laminated roller shade or a Roman shade.

Wirefree Tubular Motor with Attached Wand Control Assembly:

The motorized tube and brackets will fit on a 1" x 3" board. Cut this to the size needed for the shade mount.

- 1 Attach the wand to the battery charger by way of the USB connector. Fully charge for 6 hours prior to using.

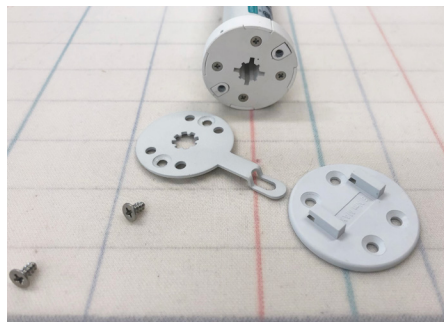
Watch this video for a closer explanation of how to assemble a Wirefree Tubular Motor with Attached Wand Control:

[How To Assemble an Shade Motor with Attached Wand Control R-TEC Automation™](#)

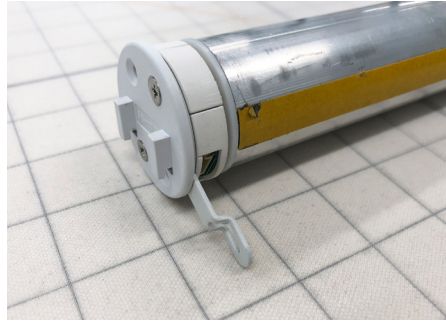


- 2 Assemble the Wirefree Tubular Motor with Attached Wand Control following the directions shown in the previous section. To add the motor adapter to the tubular motor with attached wand control, follow the directions below.

- 3 Attach the motor adapter to the shade motor by first removing the screws holding the wand hook to the motor.



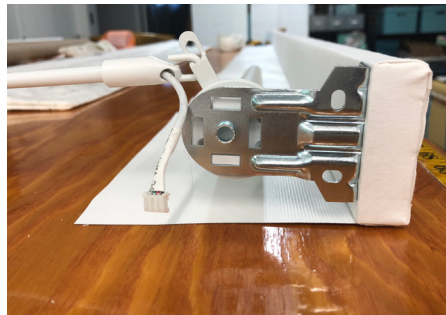
- 4 Line up the holes between the motor, wand hook plate, and the motor adapter. Screw into place.



- 5 Attach the fully assembled motor into the brackets.



- 6 Clip the wand onto the motor clip and snap the motor cord into the receptacle on the motor tube.



R-TEC Automation® Motor Options:

Motor Features:	Wirefree Tubular Motors	Wirefree Tubular Motors with Attached Wand Control	DC Tubular Motors	Cord Lift Motors
Leveling control	•		•	•
Electronic limit setting & adjustment	•	•	•	•
Favorite position	•	•	•	•
3 operational speed settings	•		•	
2-way RF communication	•		•	•
Rechargeable battery	•	•	(optional)	(optional)
ARC™ protocol for simple programming	•		•	•
Narrow width applications			•	
Compatible with Smart Home Controls	•		•	

Wirefree Tubular Motors



Item #	Motor Size	Style	Tube Dia.	Max. Size	Min. Shade Width / Roller Tube Length	Max. Load
RTML25	25 mm	Standard	1 1/4"	84" x 84"	21 1/2"	15 1/2 lbs.
			1 1/2"	84" x 84"	21 1/2"	13 lbs.
RTMLQ28	28 mm	Quiet	1 1/2"	120" x 120"	28"	23 1/2 lbs.
			2"	120" x 120"	28"	17 1/2 lbs.
RTML35	35 mm	Standard	2"	120" x 120"	37"	26 1/2 lbs.

Wirefree Tubular Motor with Attached Wand Control



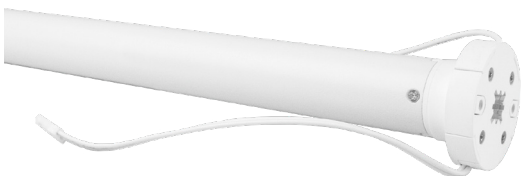
Li-ion Battery Motor for Attached Wand

Item #	Motor Size	Style	Tube Dia.	Max. Size	Min. Shade Width / Roller Tube Length	Max. Load
RTMLW25	25 mm	Standard	1 1/4"	84" x 84"	21 1/2"	15 1/2 lbs.
			1 1/2"	84" x 84"	21 1/2"	13 lbs.

Wands

Item #	Color	Length
RTMW24/W	White	24"
RTMW36/W	White	36"
RTMW48/W	White	48"

DC Tubular Motors



Item #	Motor Size	Style	Tube Dia.	Max. Size	Min. Shade Width / Roller Tube Length	Max. Load
RTMDC25	25 mm	Standard	1 1/4"	84" x 84"	14 1/2"	15 1/2 lbs.
			1 1/2"	84" x 84"	14 1/2"	13 lbs.
RTMDCQ28	28 mm	Quiet	1 1/2"	120" x 120"	20"	23 1/2 lbs.
			2"	120" x 120"	20"	17 1/2 lbs.
RTMDC35	35 mm	Standard	2"	120" x 120"	22"	26 1/2 lbs.

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