



Battery Motor Installation Instructions



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Battery Motor Installation Instructions

1.0 Overview

The following installation instructions are for Insolroll's battery powered motorized shades. It is important to note that the Small Motor Bracket (SMB) system is the most common, but the traditional Star Head bracket system is offered with the largest battery motor. The hardware options available for SMB are: Exposed, Cassette, Fascia, 6" Valance, and Dual Shade. The hardware options available for Star Head are: Exposed, Fascia and 6" Valance. Motorized shades come fully assembled and ready for installation. Mounting screws are not provided. The type and size of screw required are project specific and will vary depending upon the mounting surface.

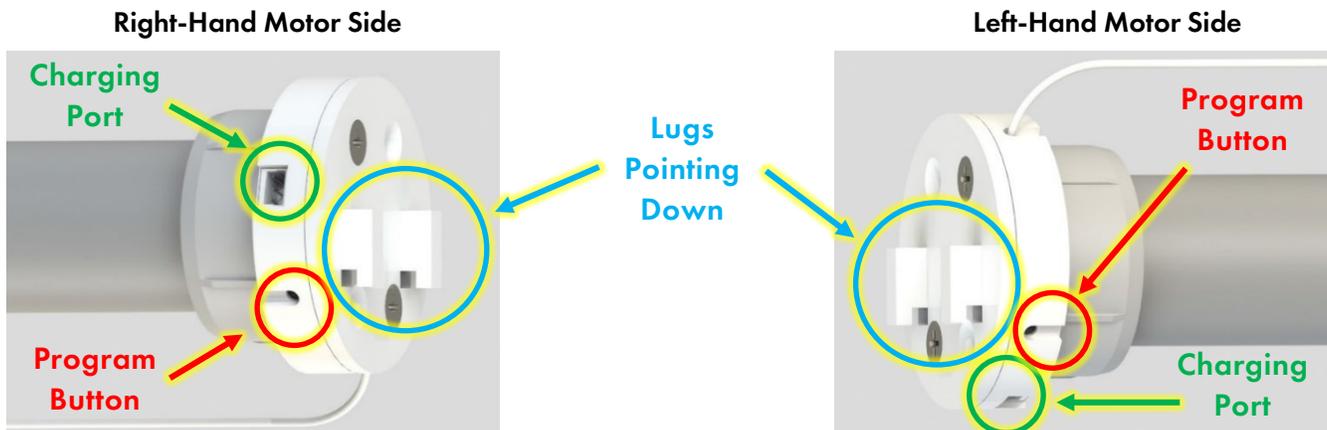
1.1 Tools

Screw/drill gun with Phillips head bit extender; Hex head driver; Standard and Phillips head screwdriver; level; tape measure; 1/8" and 3/16" drill bit.

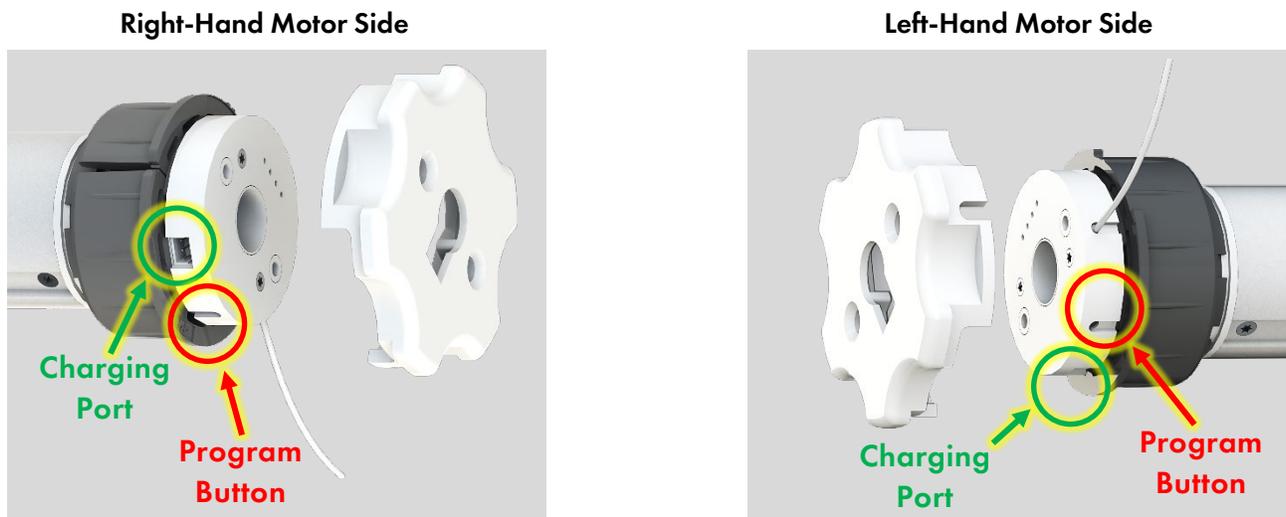
1.2 Rechargeable Embedded Li-ion Motors ONLY

1.2.1 Motor Adapter Orientation for Exposed and Fascia Systems

Small Motor Bracket (SMB) Systems



Star Head Systems





Battery Motor Installation Instructions

1.22 Important Information about Battery Motor Charging Cables

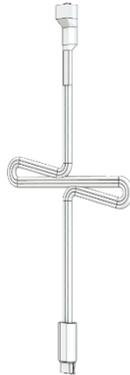
The motor battery is fully charged prior to shipment and the motor is programmed to Deactivate RTS prior to shipment. Refer to the Battery Motor Programming Instructions for more details.

All orders must include at least one charger. All fascia and cassette shades will include an 8" extension cable for easy charging. This extension cable can be ordered for other exposed and dual shade applications for an additional cost. The metal contacts of the connector must face toward the motor bracket side during insertion into the charge port.



Li-ion Charger
76" long cable

Must be included with every Li-ion battery motor order
Plugs directly into the common electrical outlet



Extension Cable

8" long cable is included with all Fascia and Cassette shades
94.5" long cable is also available
Both can be ordered at an additional cost

Cable Orientation

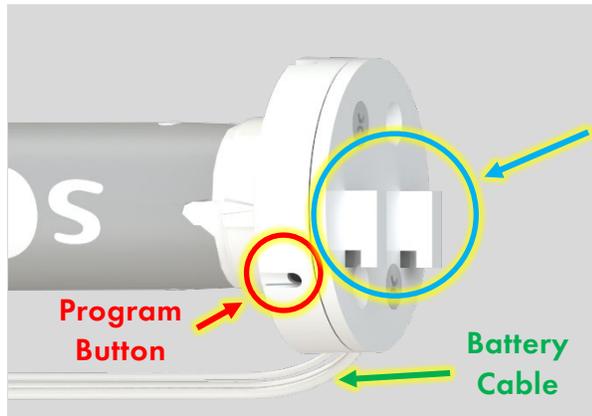
Cable can only be inserted in one orientation (metal contacts must face toward the motor bracket side)



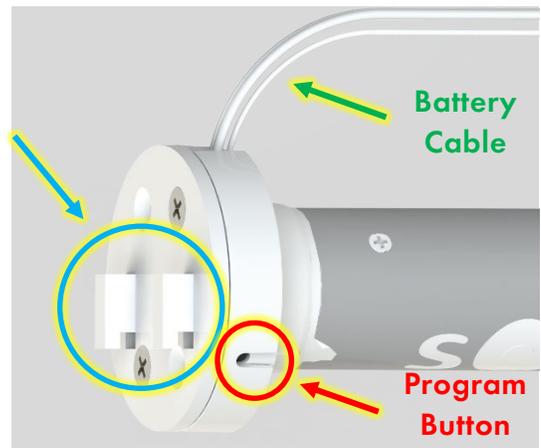
1.3 External Battery Motors ONLY

1.31 Motor Adapter Orientation for Exposed and Fascia Systems

Right-Hand Motor Side



Left-Hand Motor Side





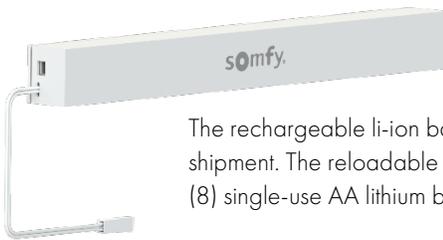
Battery Motor Installation Instructions

1.32 Important Information about Battery Motor Wands

Each battery pack is fully charged prior to shipment. Refer to the Battery Motor Programming Instructions for more details.

All Li-ion battery pack orders must include at least one charger. This extension cable can be ordered for other exposed and dual shade applications for an additional cost. The metal contacts of the connector must face toward the motor bracket side during insertion into the charge port.

Battery Packs

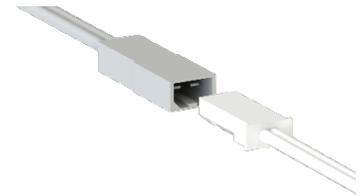


We offer rechargeable li-ion battery packs (shown-left) and reloadable battery wands.

The rechargeable li-ion battery wands are fully charged prior to shipment. The reloadable battery wands are shipped with eight (8) single-use AA lithium batteries.

Cable Orientation

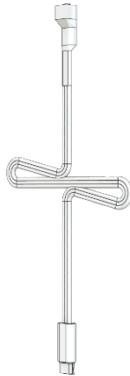
The battery pack cable can only be inserted in one orientation (match the geometry of the connectors when connecting the battery pack cable to the motor cable).



Li-ion Charger 76" long cable

Must be included with every external battery motor order.

Plugs directly into the common electrical outlet.



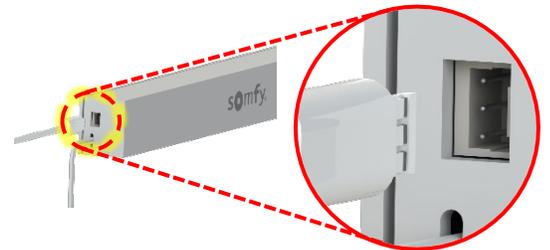
Extension Cable

The extension cable is not included in any external battery motor order but they are available to be ordered at an additional cost.

Available in an 8" long cable and a 94.5" long cable.

Cable Orientation

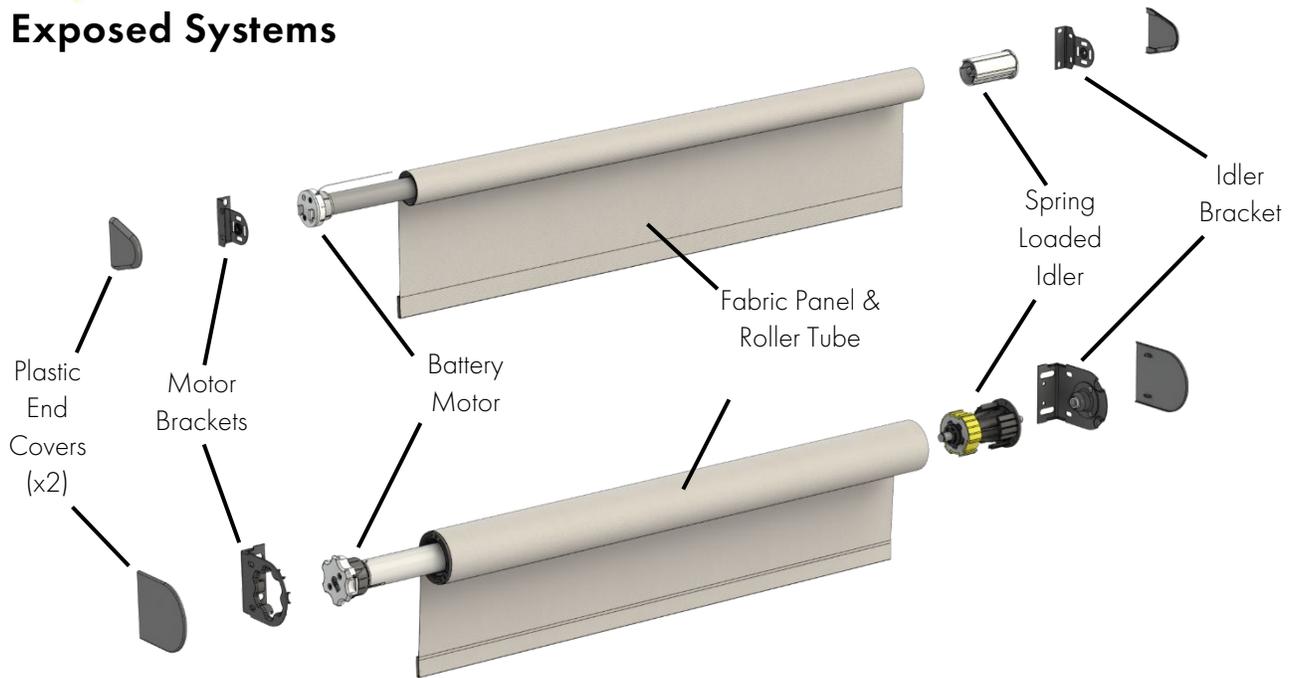
Charging cable can only be inserted into the battery pack in one orientation (metal contacts must face toward the logo on the pack).





Battery Motor Installation Instructions

2.0 Exposed Systems



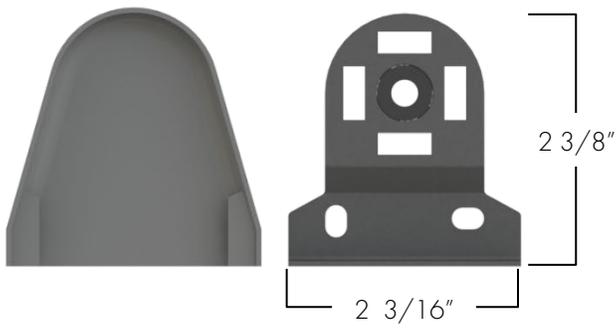
2.1 Exposed Bracket Options

2.1.1 SMB Exposed System

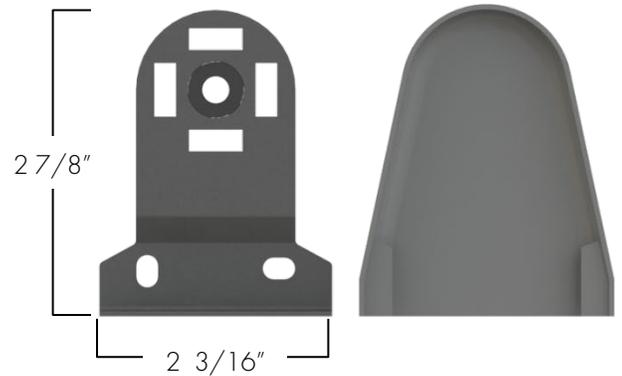
The SMB exposed bracket system is offered in two sizes, a standard size for shorter shades and an extended size for taller shades. Motor and Idler brackets are identical. These brackets can be used for both ceiling and wall mount applications.

Optional plastic end caps are available, but keep in mind adding both plastic end caps add a total of 3/16" to the bracket-to-bracket distance.

Standard Exposed Bracket



Extended Exposed Bracket



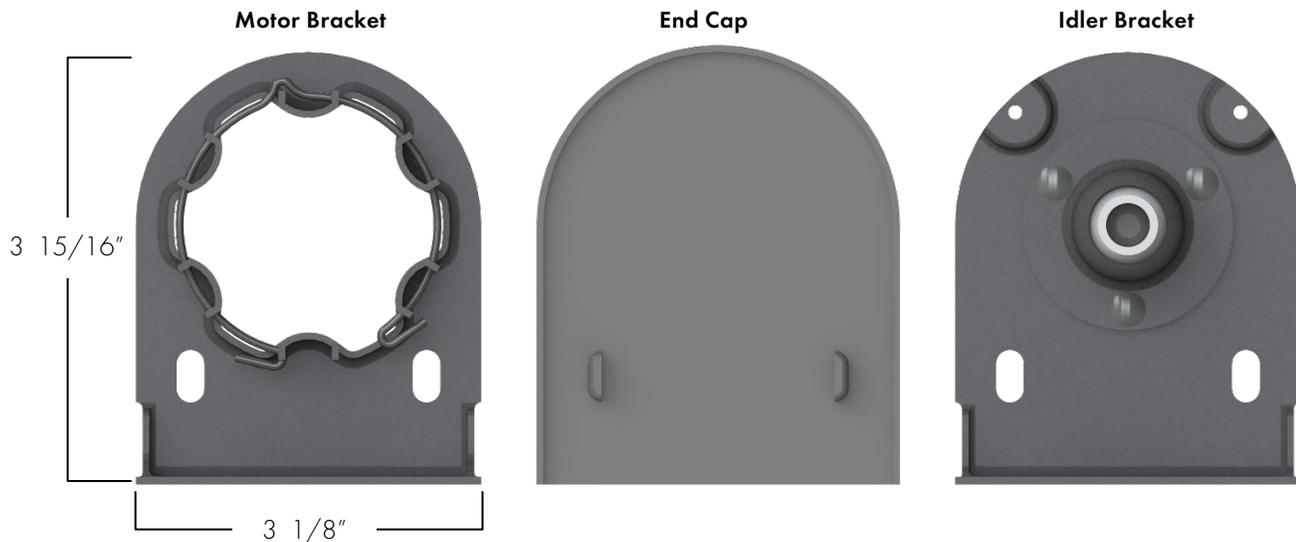


Battery Motor Installation Instructions

2.12 Star Head Exposed System

The Star Head exposed bracket system is only offered in one size that fits all shade sizes. Motor and Idler brackets are different for this system so be sure to mount the motor bracket on the operator side that is noted in the order. These brackets can be used for both ceiling and wall mount applications.

Optional plastic end caps are available, but keep in mind adding both plastic end caps add a total of 3/16" to the bracket-to-bracket distance.

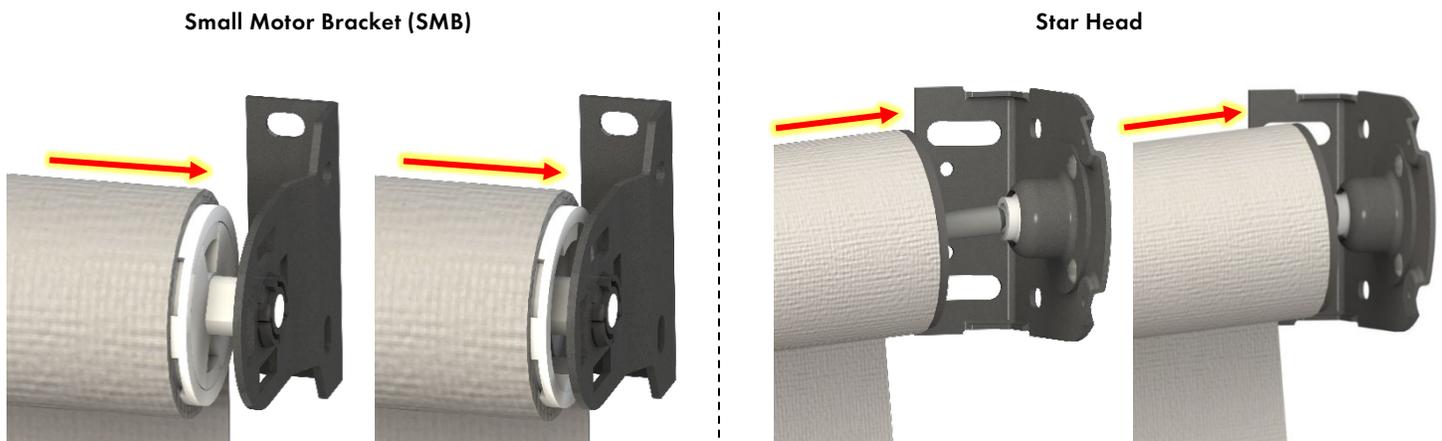


2.2 Bracket Location and Mounting

Mark the location of the brackets noting that the bracket-to-bracket width equals shade order width. For proper shade operation, brackets must be mounted perfectly level. Verify using a level.

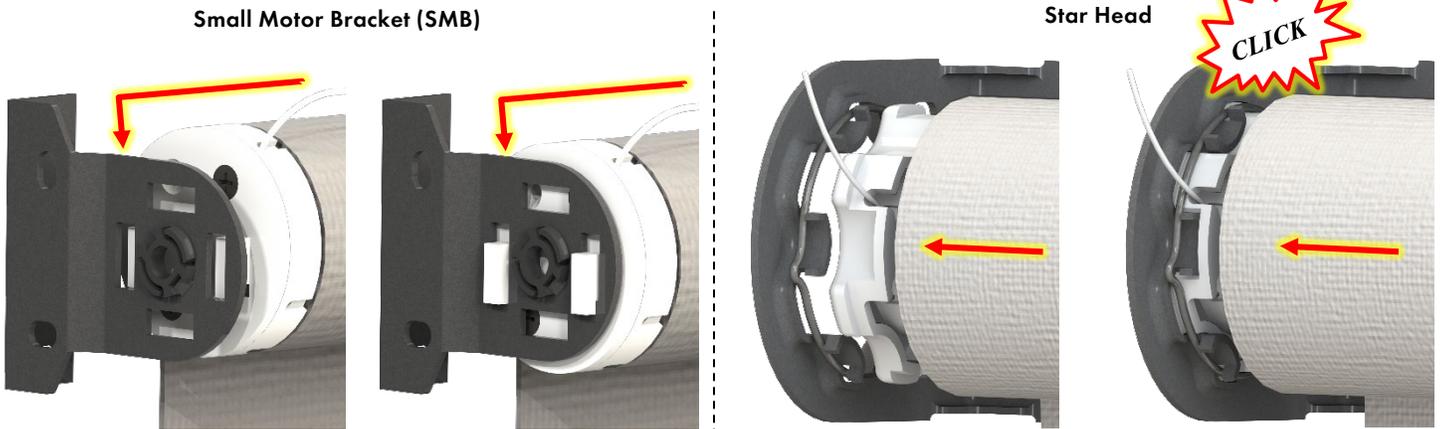
2.3 Shade Installation

1. For both SMB and Star Head systems, install the shade by carefully inserting the idler pin into the idler bracket and compress the idler so the motor head bypasses the motor bracket.



Battery Motor Installation Instructions

2. For SMB systems, align the motor head adapter lugs to fit into the rectangular slots in the bracket. Push down on the motor head adapter to ensure the lugs are fully seated in the slots.
- For Star Head systems, leave the motor ring installed on the motor bracket. Align the star head to the star pattern on the motor bracket (be sure to orient the charging port and programming button downward). Press the motor head into the bracket until the motor ring snaps onto the motor head. Visually inspect the fit to ensure the motor ring is securing the motor head in place.



3. For SMB systems, install the bracket covers by simply sliding the cover over the bracket.
- For Star Head systems, install the bracket covers by lining the end cap with the bracket. Then press the end cap into place, you should hear it snap into place.



2.4 Shade Removal

For SMB systems, begin by lifting the motor head so the adapter lugs are not fully seated. Move the shade toward the idler to compress the idler enough so that the motor head adapter lugs can swing by the motor bracket. Remove the idler pin from the idler bracket.

For Star Head systems, start the shade removal by removing the motor ring. Move the shade toward the idler to compress the idler so that the motor head clears the motor bracket. Remove the idler pin from the idler bracket.

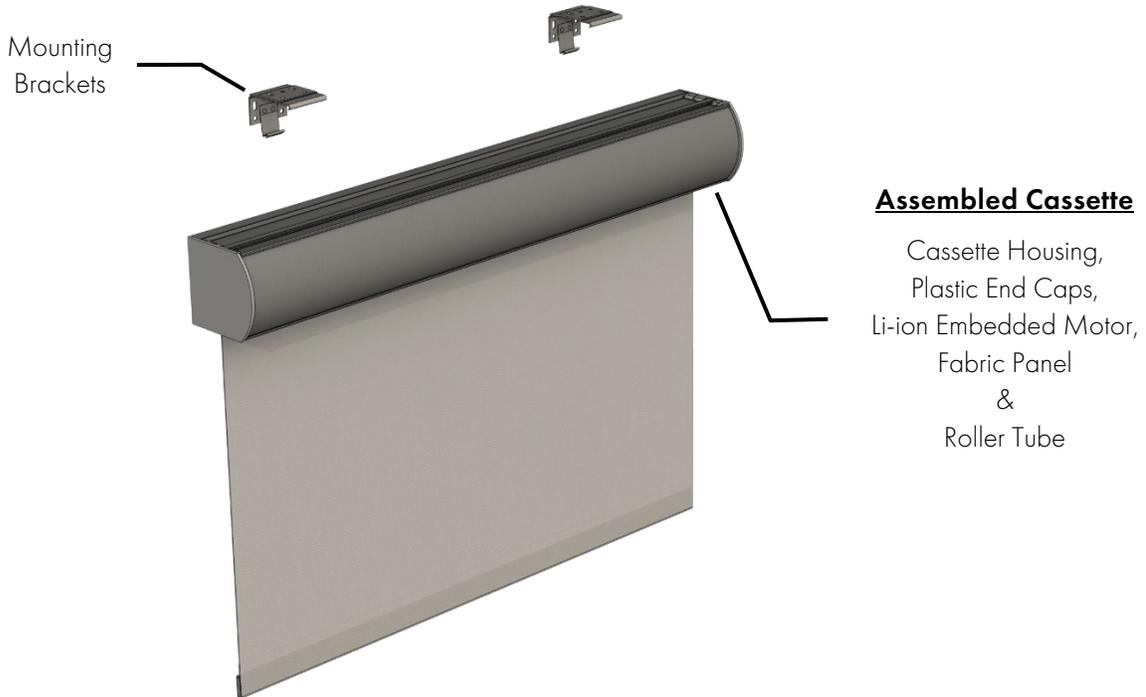
Shade Operation

For information on programming and operating your shade, please refer to the Battery Motor Programming Instructions.



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3.0 Cassette Systems (3" and 4")

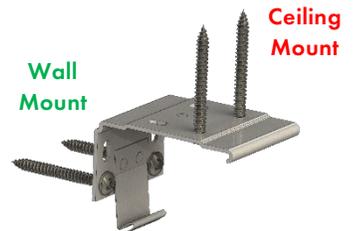


Antenna

Prior to shipment, the antenna is inserted in a ridge inside of the cassette to keep it hidden.

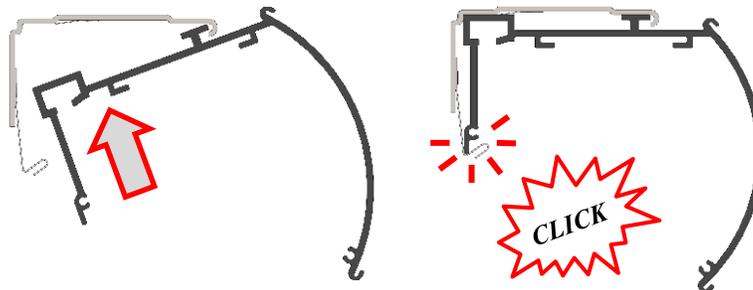
3.1 Cassette Mounting Brackets

Cassette systems are shipped fully assembled. These systems utilize mounting brackets that can be mounted for wall or ceiling mount. Mount two outer brackets approximately 2" in from the end. On wider units install center bracket(s) supplied. We recommend a pan head fastener; other fasteners may prohibit the cassette from seating properly.



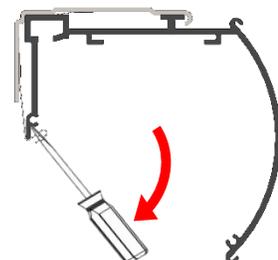
3.2 Shade Installation

Hook top of extrusion into front of mounting brackets as shown. Rotate the back bottom corner of cassette up and snap into bracket.



3.3 Cassette Removal

To remove cassette, insert flat head screwdriver into mounting bracket slot, then back to release cassette.



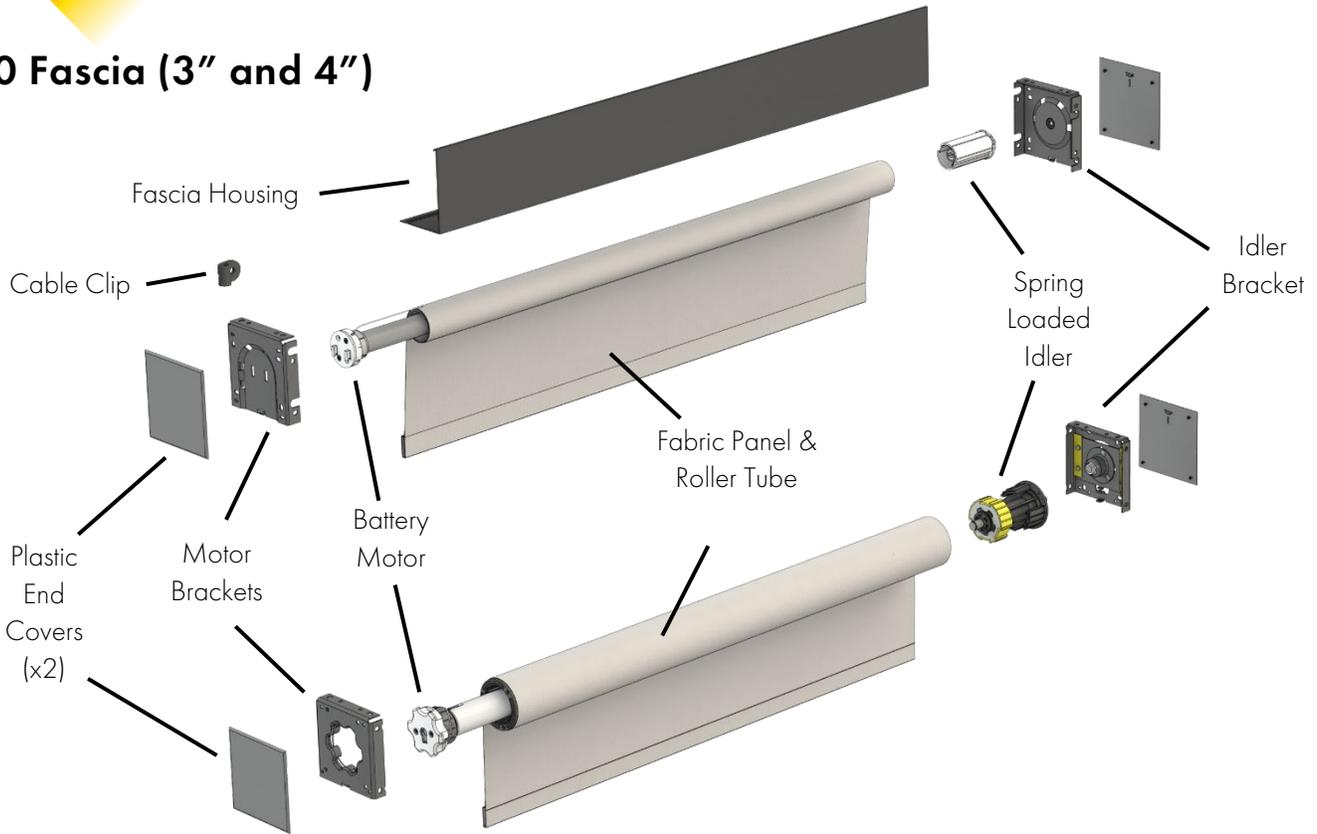
Shade Operation

Refer to the Battery Motor Programming Instructions for shade operation.



Battery Motor Installation Instructions

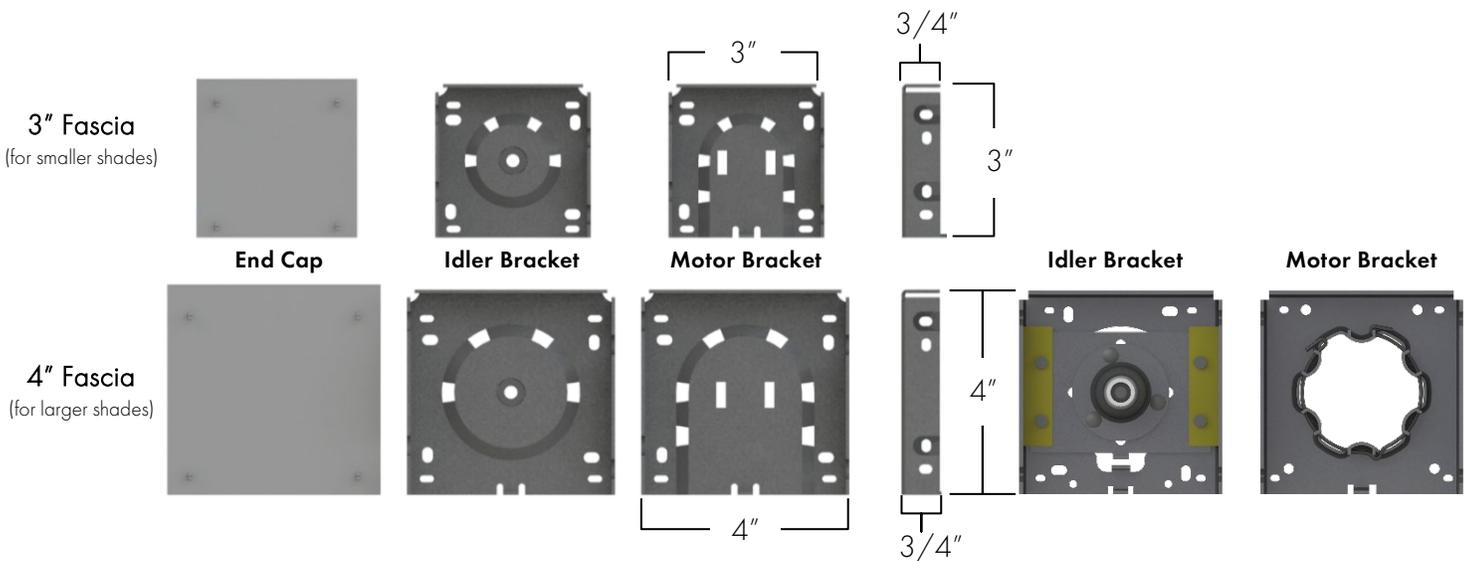
4.0 Fascia (3" and 4")



4.1 Fascia Bracket Options

Motor and Idler brackets are different for this system so be sure to mount the motor bracket on the operator side that is noted in the order. These brackets can be used for both ceiling and wall mount applications.

Optional plastic end caps are available, but keep in mind adding both plastic end caps add a total of 1/4" to the bracket-to-bracket distance.





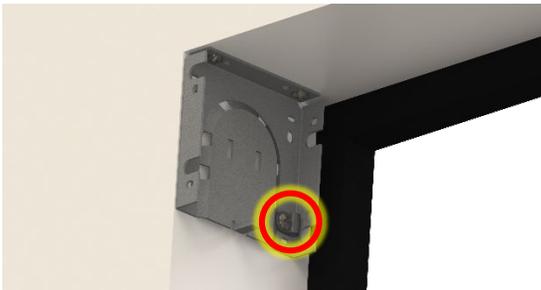
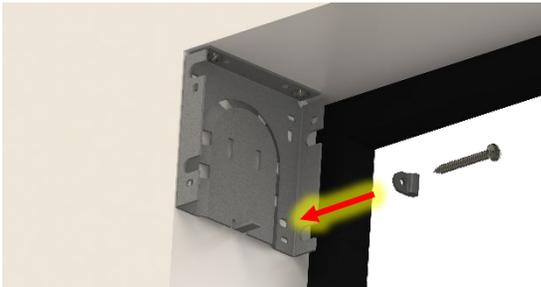
Battery Motor Installation Instructions

Bracket Location and Mounting

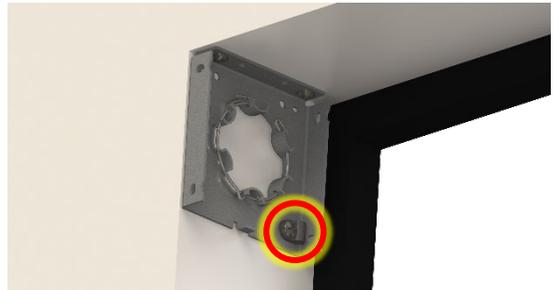
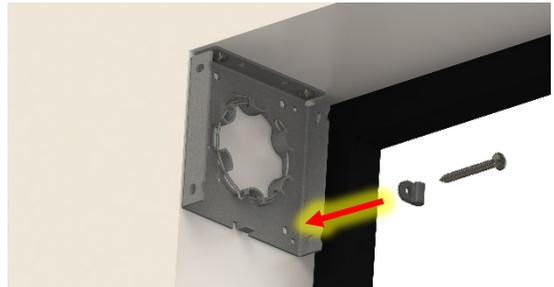
Determine the operator side of the shade. Mark the location of the brackets noting that the bracket-to-bracket width equals shade width. For proper shade operation, brackets must be mounted perfectly level. Mount the wire clip provided to the motor side fascia bracket as shown to secure the antenna and 8" extension if applicable. The wire clip should be mounted so it is still accessible after the fascia front cover is installed.

Inside Mount Applications

Small Motor Bracket (SMB)

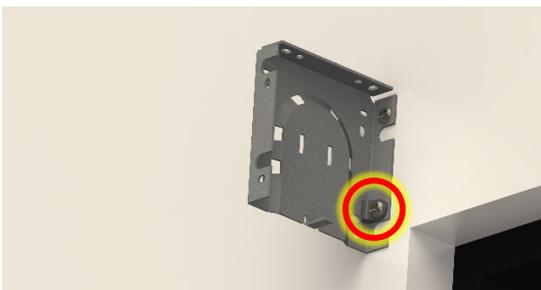
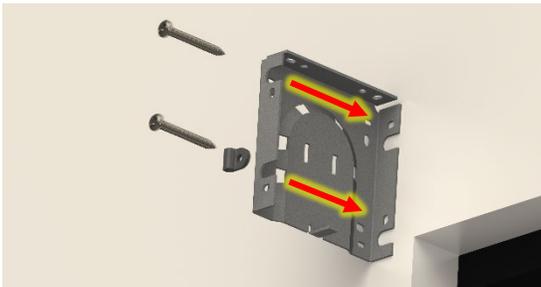


Star Head

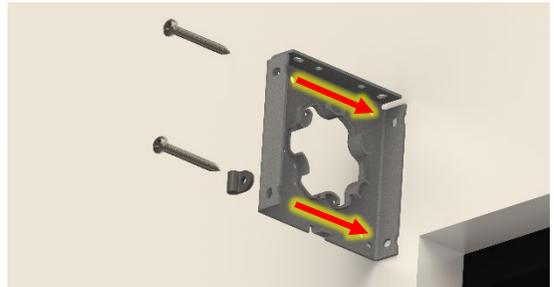


Outside Mount Applications

Small Motor Bracket (SMB)



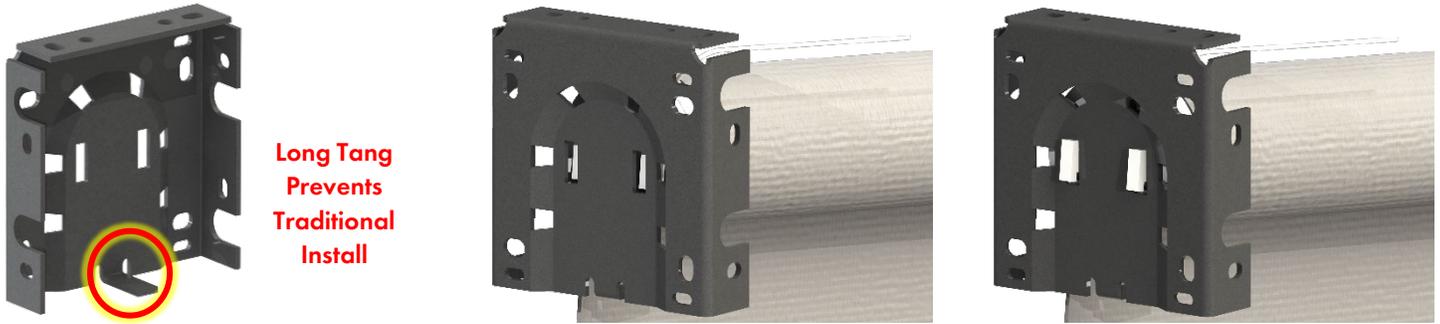
Star Head



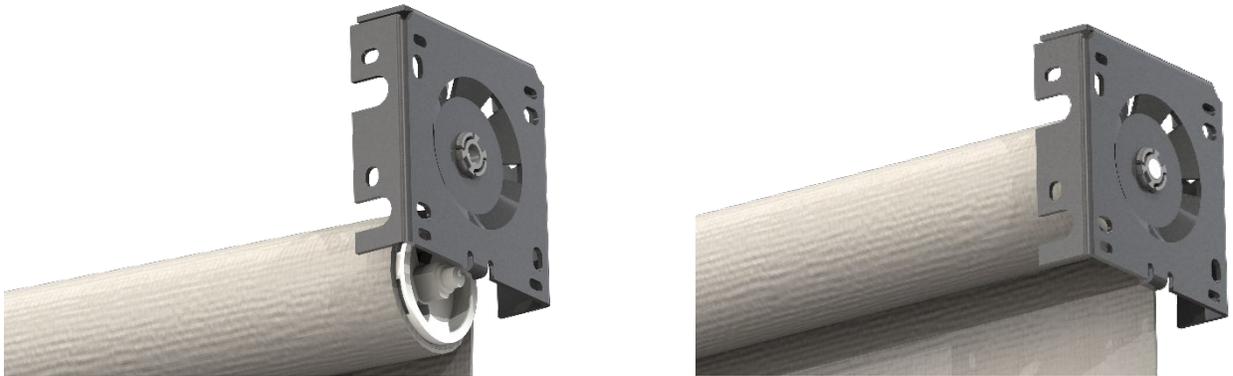
Battery Motor Installation Instructions

4.2 Shade Installation – 3” Fascia

1. Due to the length of the motor bracket tang, install the shade motor side first by aligning the adapter lugs to fit into the rectangular slots in the bracket.

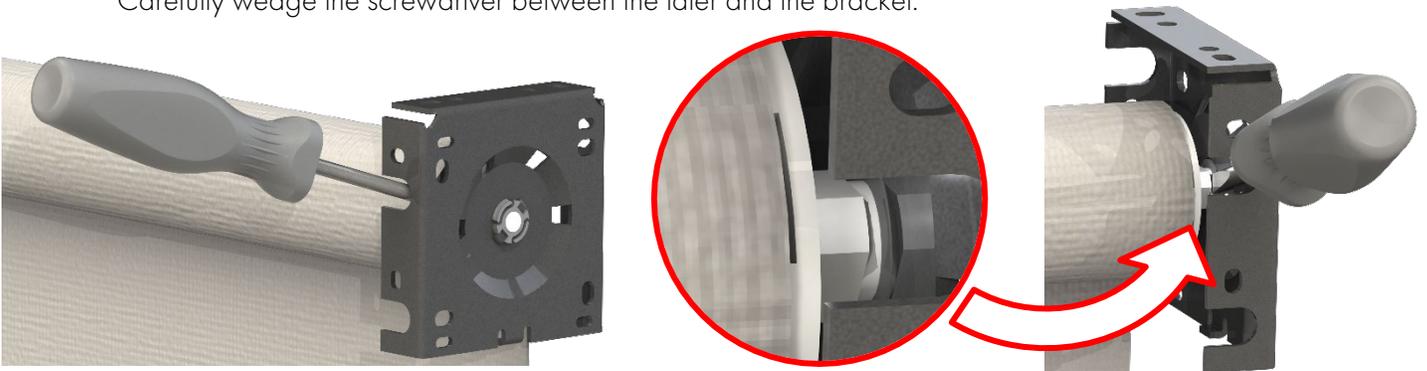


2. Then compress the idler pin by hand and carefully insert the idler pin into the plastic bushing. Be very careful: The plastic bushing can be damaged when decompressing the idler. The idler spring can exert enough force to break the plastic bushing in the idler bracket.



4.3 Shade Removal – 3” Fascia

1. The idler pin is stepped so there is a small flat area that will accept a flat head screwdriver. Carefully wedge the screwdriver between the idler and the bracket.



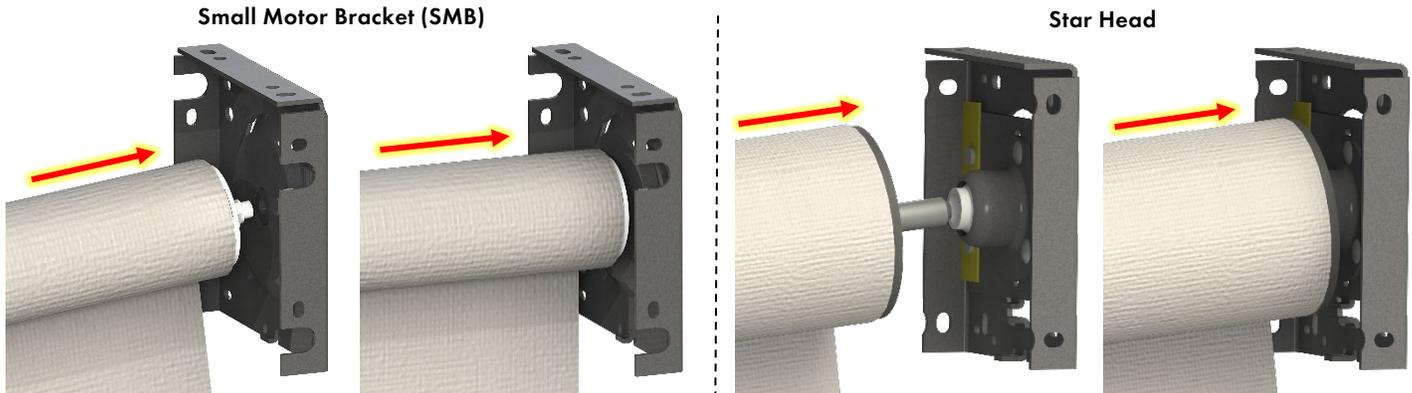
2. Maintain pressure against the idler pin while moving the shade down and away from the plastic bushing. Be very careful: The idler spring can exert enough force to break the plastic bushing in the idler bracket.
3. Lift the motor side of the shade so the motor head adapter lugs are out of the bracket and remove the shade.



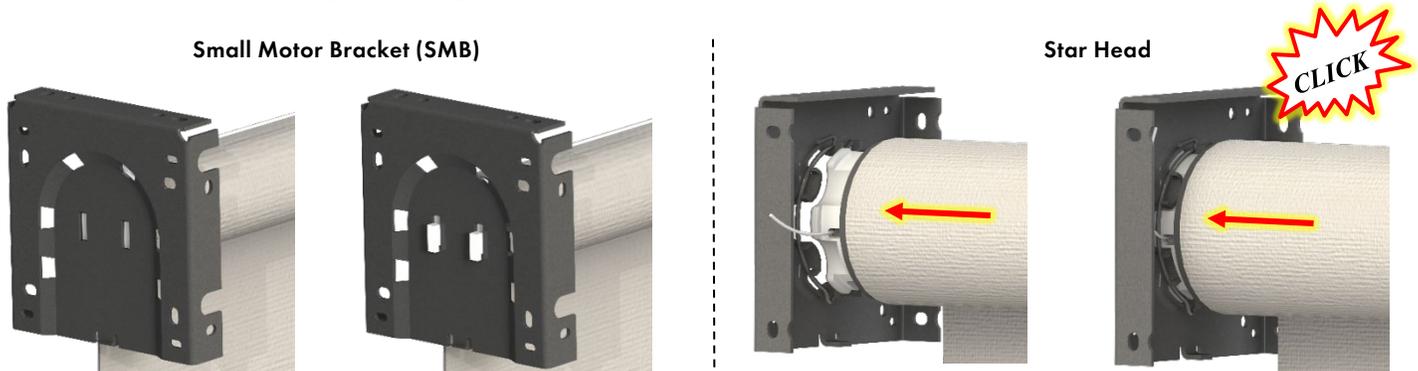
Battery Motor Installation Instructions

4.4 Shade Installation – 4" Fascia

1. For both SMB and Star Head systems, 4" fascia allows enough room for a traditional install. Begin by carefully inserting the idler pin into the idler bracket and compress the idler so the motor head bypasses the motor bracket.



2. For SMB systems, align the motor head adapter lugs to fit into the rectangular slots in the bracket. Push down on the motor head adapter to ensure the lugs are fully seated in the slots.
For Star Head systems, leave the motor ring installed on the motor bracket. Align the star head to the star pattern on the motor bracket (be sure to orient the charging port and programming button downward). Press the motor head into the bracket until the motor ring snaps onto the motor head. Visually inspect the fit to ensure the motor ring is securing the motor head in place.



4.5 Shade Removal – 4" Fascia

For SMB systems, begin by lifting the motor head so the adapter lugs are not fully seated. Move the shade toward the idler to compress the idler enough so that the motor head adapter lugs can swing by the motor bracket. Remove the idler pin from the idler bracket.

For Star Head systems, start the shade removal by removing the motor ring. Move the shade toward the idler to compress the idler so that the motor head clears the motor bracket. Remove the idler pin from the idler bracket.

Antenna

Ensure the antenna does not contact the shade fabric. The antenna can be tucked into the motor wire clip to prevent it from rubbing on the shade and will not impact radio transmission.

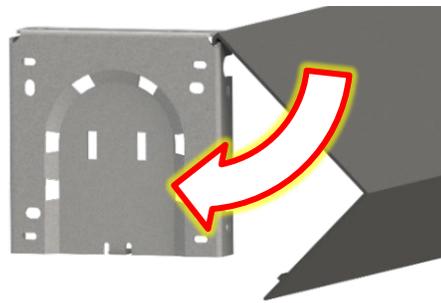
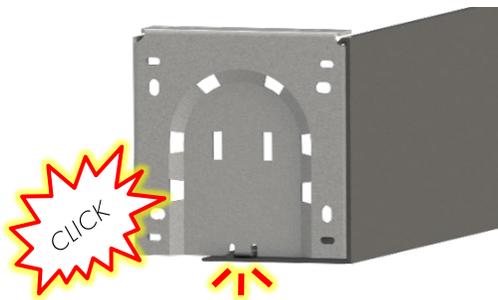
Shade Operation

Refer to the Battery Motor Programming Instructions for shade operation.

Battery Motor Installation Instructions

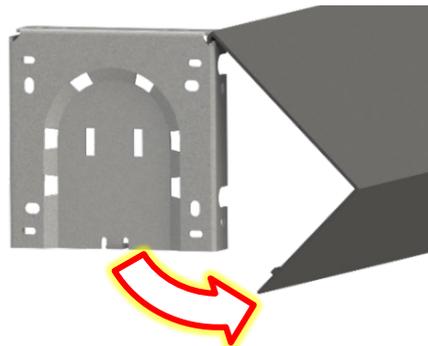
4.6 Fascia Installation

1. Ensure both the 8" extension cable and antenna are secured in the wire clip and won't interfere or be damaged when the shade is operating.
2. Insert fascia into the top lip of both brackets. Push fascia toward the back of the lower part of the bracket. The fascia snaps onto the tang of both brackets. If the fascia is not secure, check the tang to ensure it is not bent. If necessary, carefully bend the tang down so the fascia engages with the tang.
3. For outside mount, secure the end caps.



4.7 Fascia Removal

Remove the fascia by pulling down on the bottom flap of the fascia near the brackets to ease the fascia over the edge of each bracket. Carefully remove the fascia and place on a scratch resistant surface.

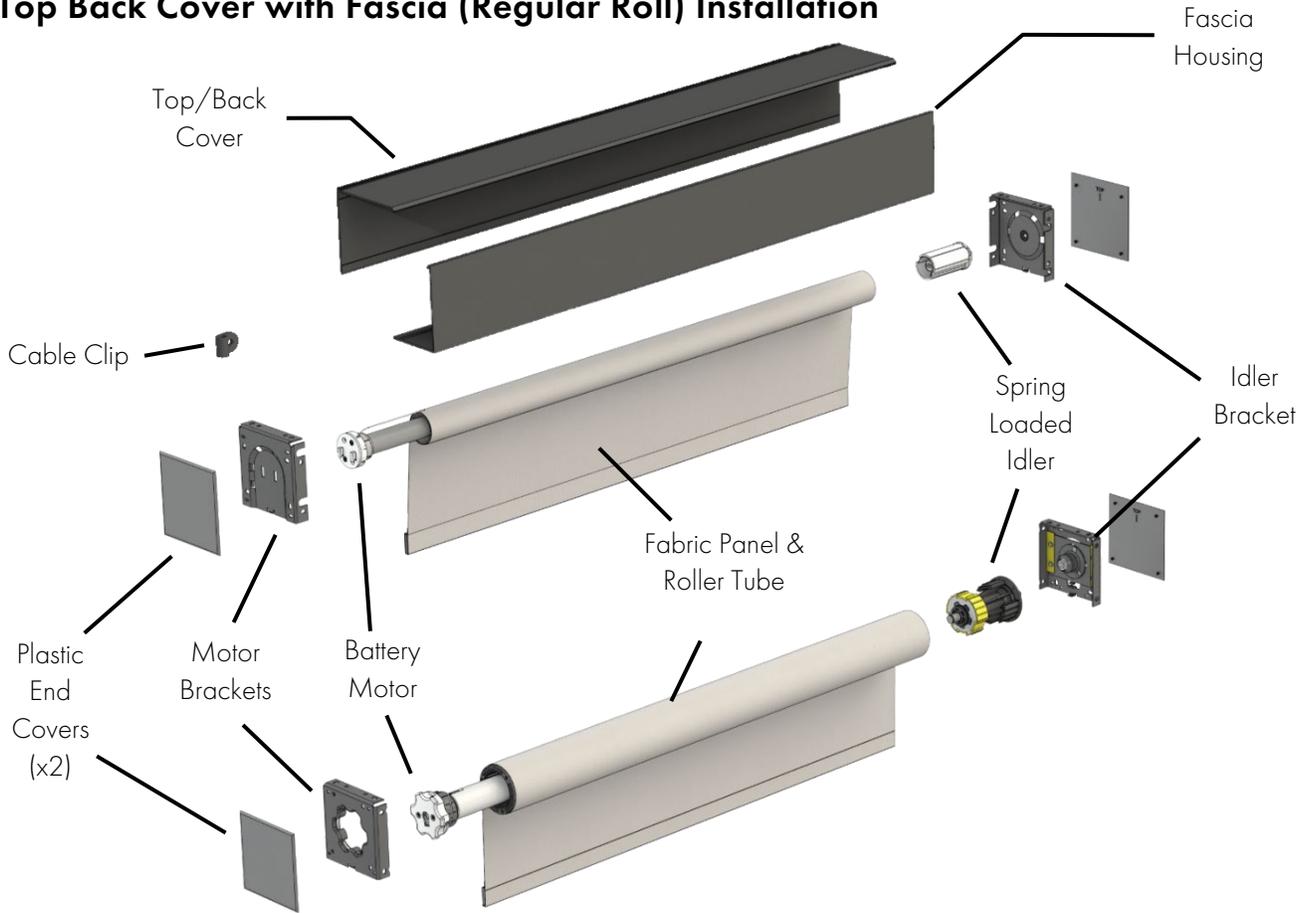




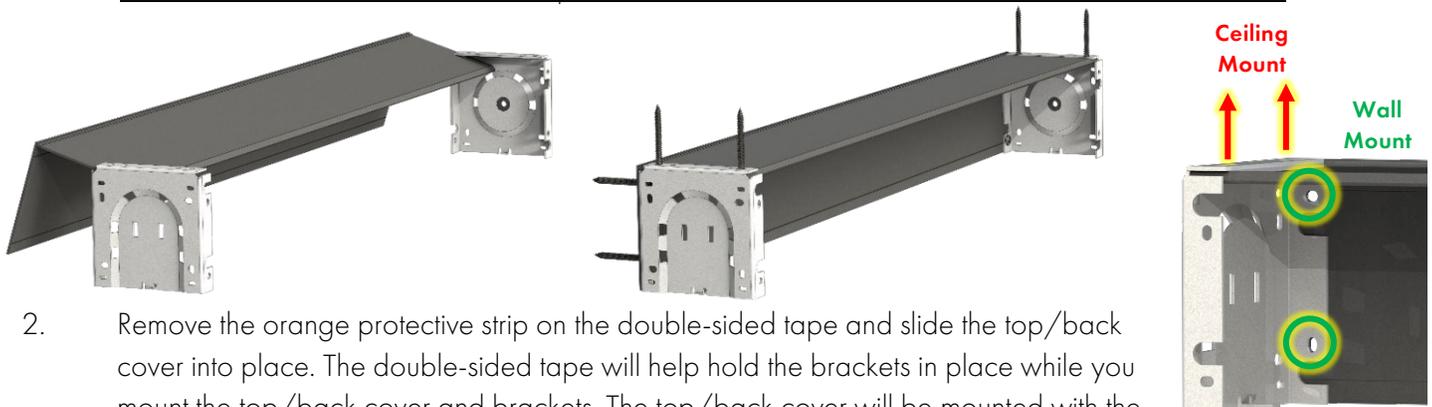
Battery Motor Installation Instructions

5.0 Top/Back Cover

5.1 Top Back Cover with Fascia (Regular Roll) Installation



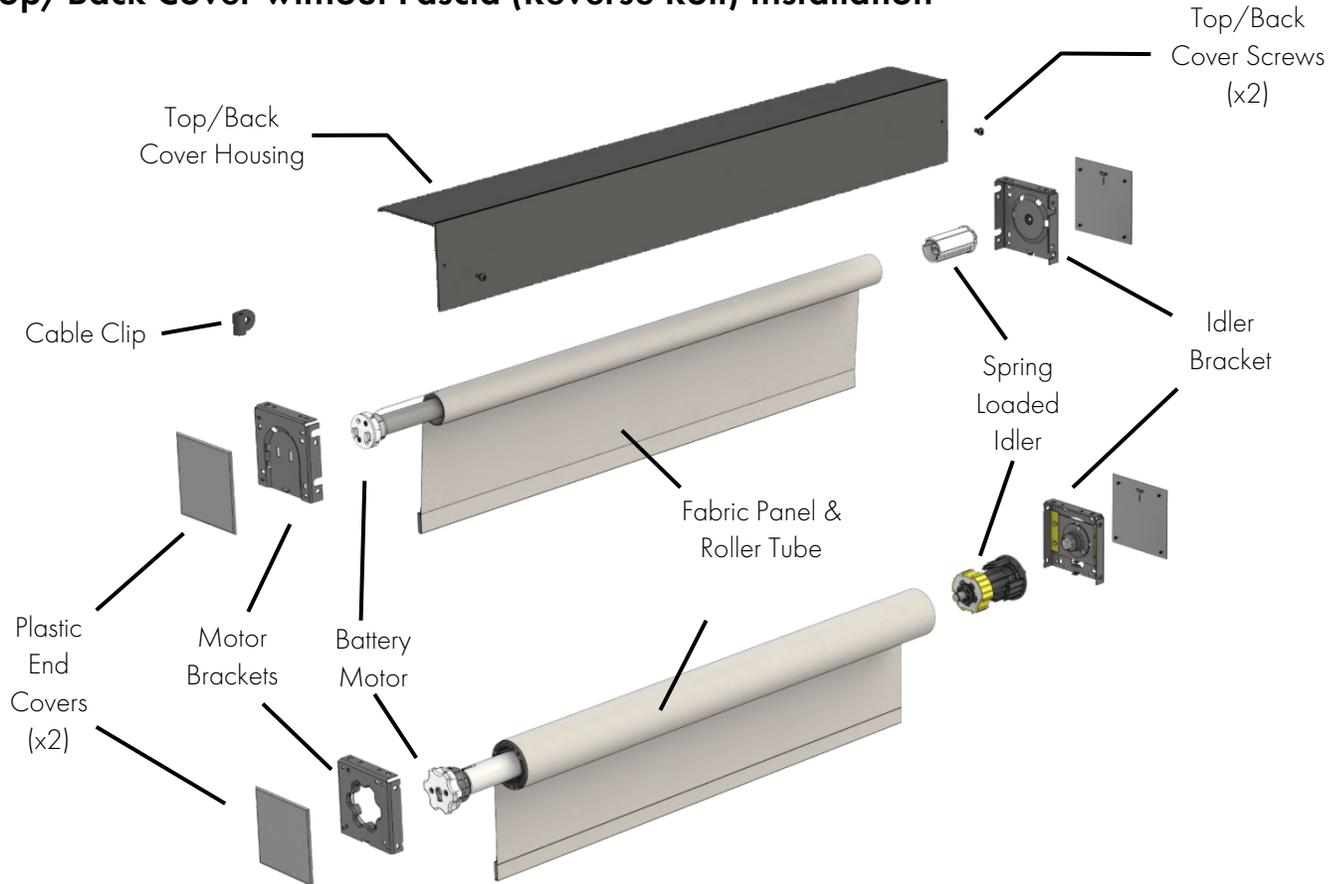
- Slide the top/back cover into both brackets so the cover sits underneath the top bracket flange. Using the bracket as a template, mark and drill the holes using a 3/16" drill bit into the top/back cover. *NOTE: Inside mount uses the holes on the top of the bracket. Outside mount uses the holes on the back of the bracket.*



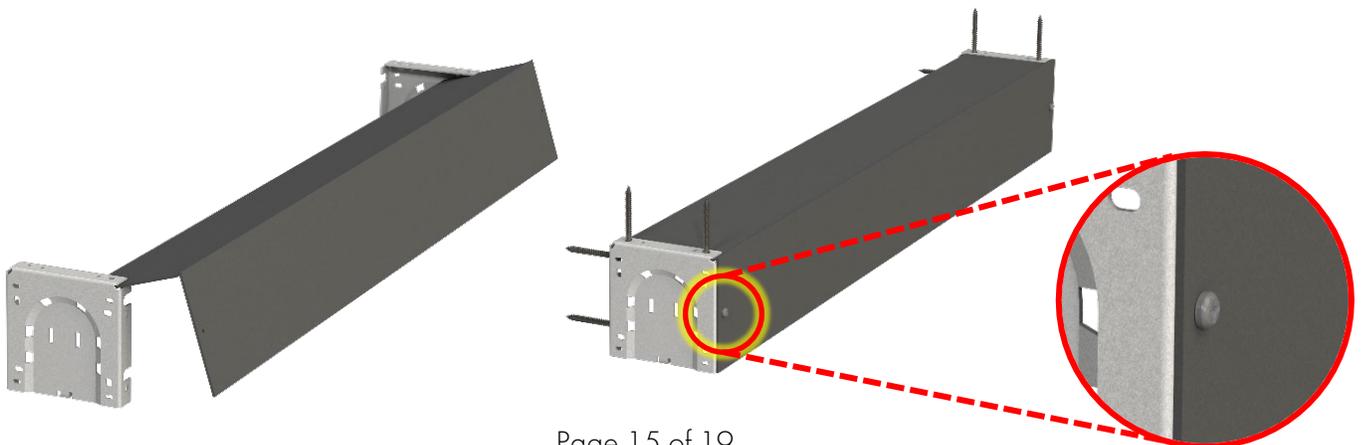
- Remove the orange protective strip on the double-sided tape and slide the top/back cover into place. The double-sided tape will help hold the brackets in place while you mount the top/back cover and brackets. The top/back cover will be mounted with the brackets at the same mounting points.
- Refer to Section 4.4 Shade Installation – 4" Fascia for information on shade installation.
- Refer to Section 4.6 Fascia Installation for information on how to install the Fascia Housing.

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5.2 Top/Back Cover without Fascia (Reverse Roll) Installation



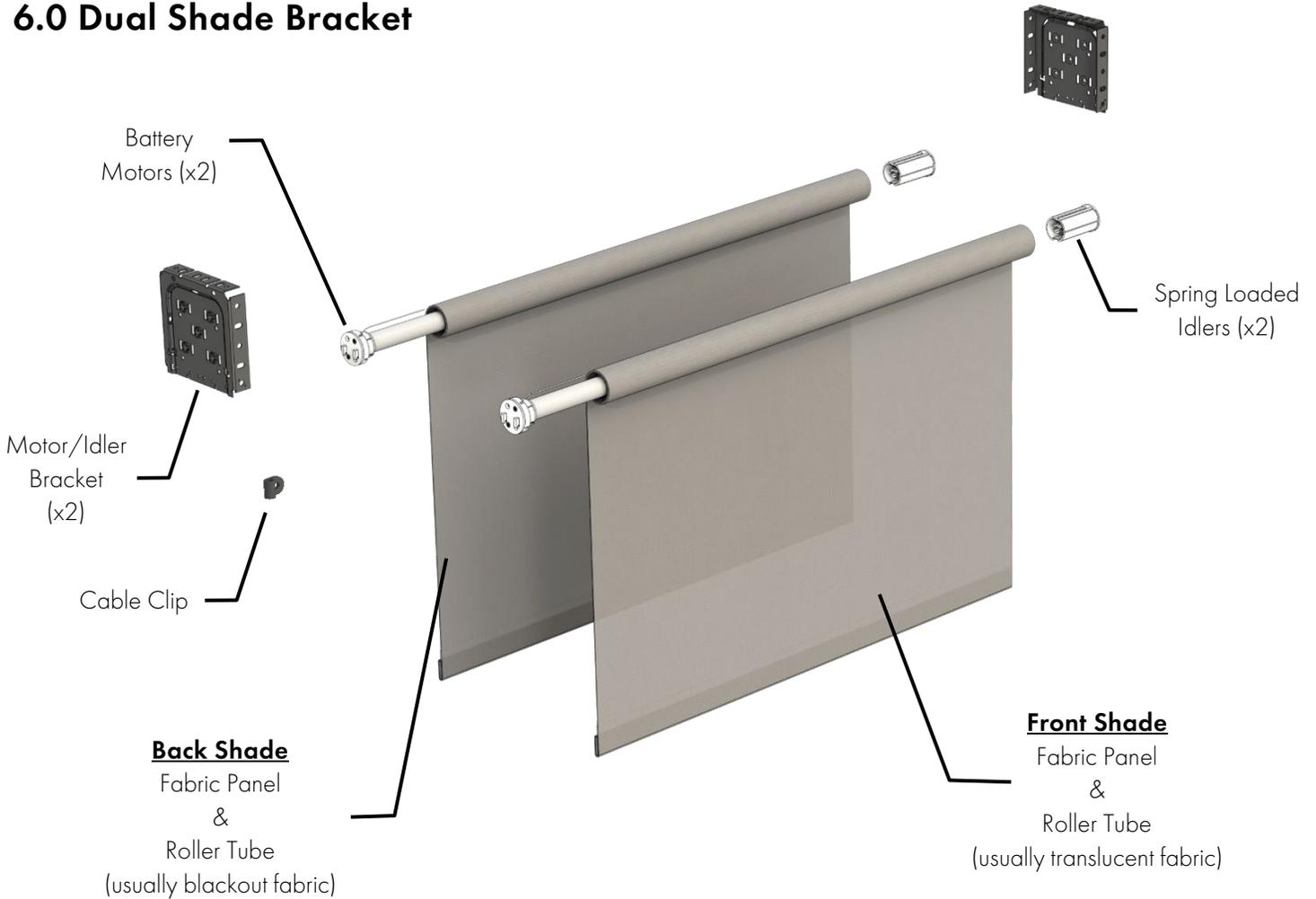
1. Refer to Sections 4.1 Fascia Bracket Options & 4.4 Shade Installation – 4" Fascia for information on mounting the brackets and installing the shade. Note: the shade can be installed as either reverse or regular roll.
2. Fascia will not be used in this application, instead the top/back cover will be used as the front exposed housing. Remove the double-sided tape protective covering and slide the top/back cover into the brackets as shown. The tape will temporarily hold the front cover in place for the next step.
3. This application requires a screw through the front of the top/back cover to keep it secured. Pre-drill a 1/8" hole through the front of the cover into flange on the brackets. Attach with provided #8 x 3/8" pan head screw.





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6.0 Dual Shade Bracket



6.1 Dual Shade Mounting Bracket Options

Dual shades are offered as exposed, 6" Valance, 5 1/2" Pocket and Flap and Hanger

If you are using any of the housing options refer to Section 7.0 Optional Hardware for instructions on how to properly install the housing for your application.

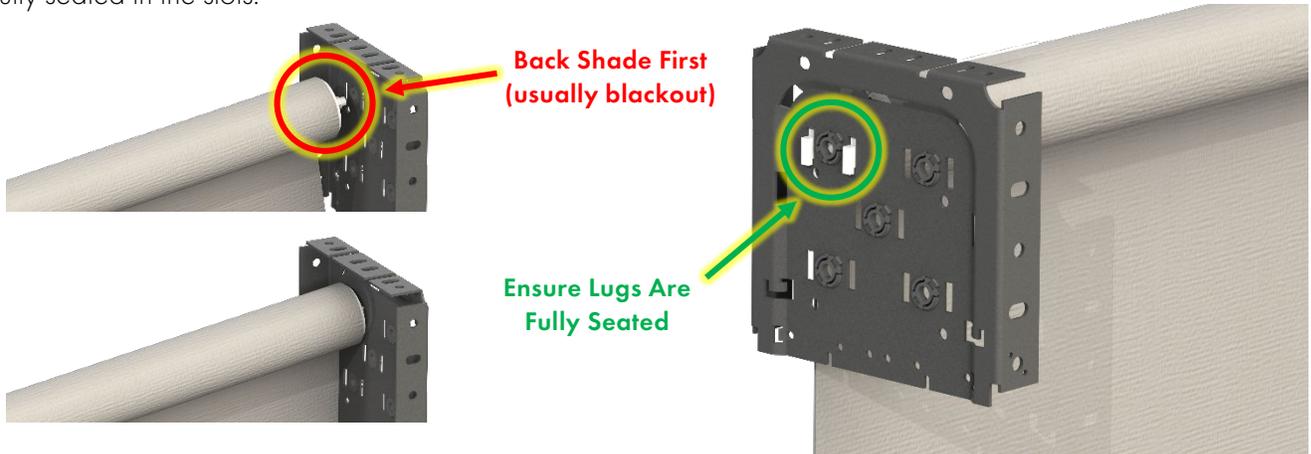
Bracket Location and Mounting

Mark the location of the brackets noting that the bracket-to-bracket width equals shade width. For proper shade operation, brackets must be mounted perfectly level.

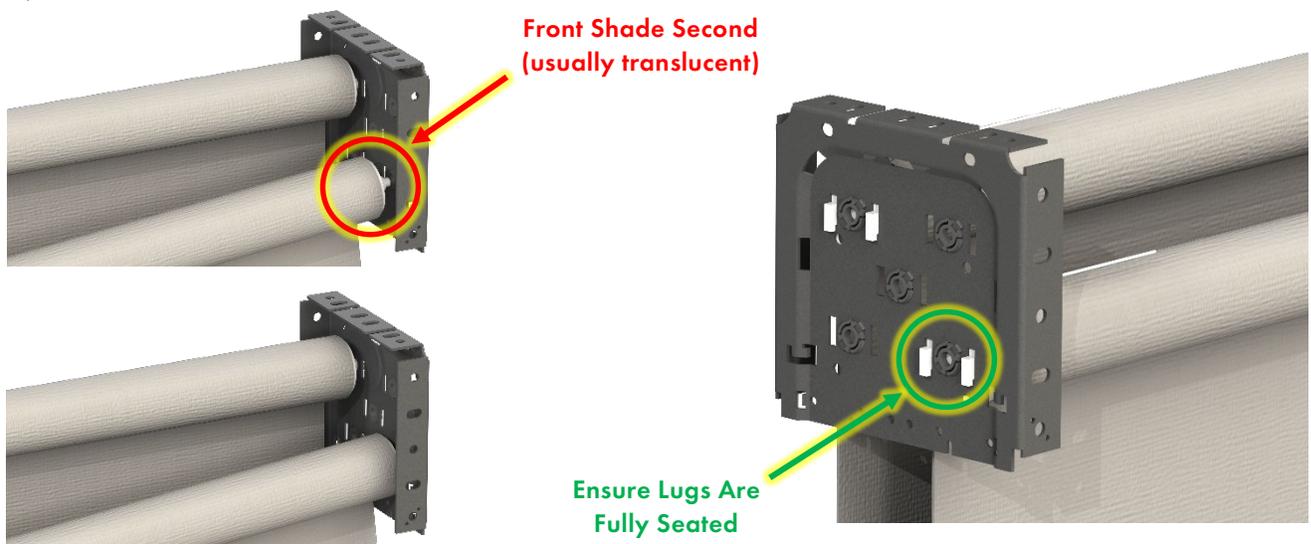
Battery Motor Installation Instructions

6.2 Shade Installation

1. Install the back shade (usually a blackout or darker fabric) by carefully inserting the idler pin into the top-back bracket bushing.
2. Compress the idler so the motor head mounting plate bypasses the bracket. Align the motor head adapter lugs to fit into the rectangular slots in the bracket. Push down on the motor head adapter to ensure the lugs are fully seated in the slots.



3. Install the front shade (usually a translucent or lighter fabric) by carefully inserting the idler pin into the bottom-front bracket bushing.
4. Compress the idler so the motor head mounting plate bypasses the bracket. Align the motor head adapter lugs to fit into the rectangular slots in the bracket. Push down on the motor head adapter to ensure the lugs are fully seated in the slots.



6.3 Shade Removal

Remove the shade from the motor bracket by lifting the motor head so the adapter lugs are not fully seated. Move the shade toward the idler to compress the idler enough so that the motor head adapter lugs can swing by the motor bracket. Remove the idler pin from the idler bracket.

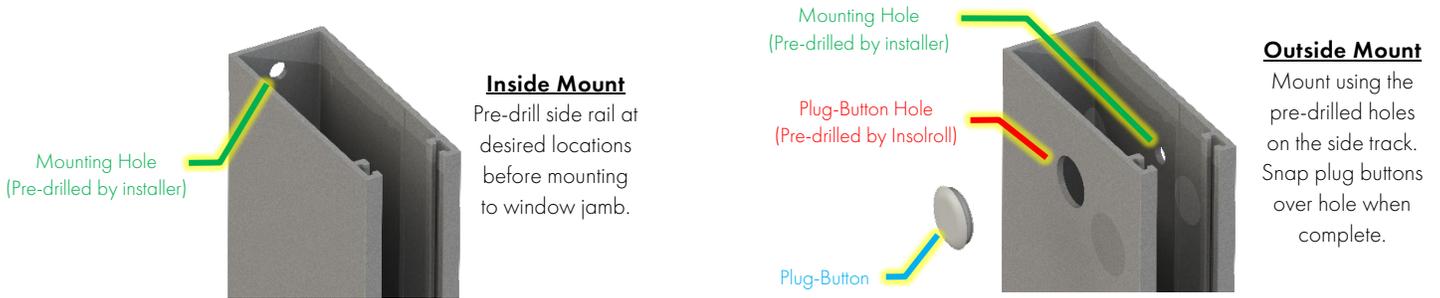


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7.0 Optional Hardware

7.1 Side Track

- Side track system should be installed after the shade has been installed. Mount the side tracks first. Determine the placement and verify the length of the side tracks. The side tracks should sit flush with the outside of the bracket (or end cap if applicable). Pre-drill the side track based on your application.



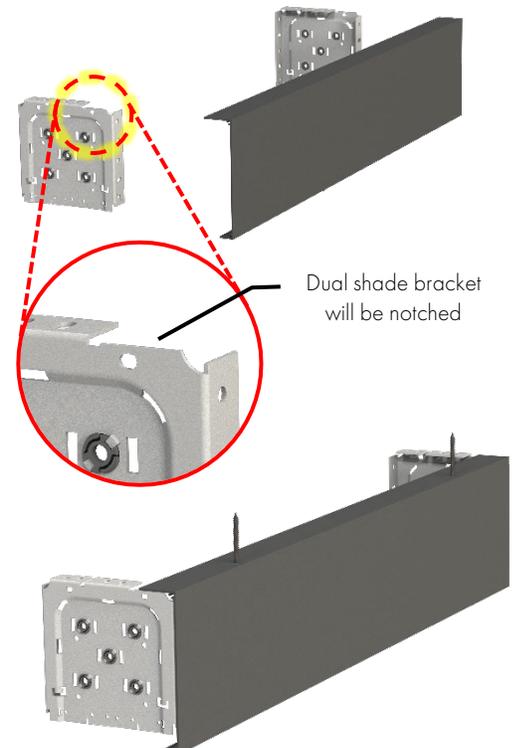
- Mount the side tracks and use a level to verify they are mounted vertically plumb.
- Once the sidetracks are mounted, the bottom sill can be mounted. Use the side tracks as guides to line up the bottom seal. The bottom sill should sit flush with both side tracks. Mount the bottom seal using the same steps as the side tracks.



7.2 6" Valance

A. Inside Mount:

- No end plates or valance mounting brackets are included for this application. Valance is mounted independently from the shade. You will receive exposed brackets for single shade applications or dual shade brackets for dual shade applications. *Note if dual shade:* A notch will be cut in the shade bracket to ensure the valance sits up against the bracket.
- "Dry-fit" the valance at the desired location to ensure shade clearance and proper fit for your application. Valance should sit flush with front of opening.
- Pre-drill mounting holes in the top return of the valance (holes should be drilled in the groove of the return).
- Place valance into opening. Secure the valance by screwing through the top of the valance into the surface.

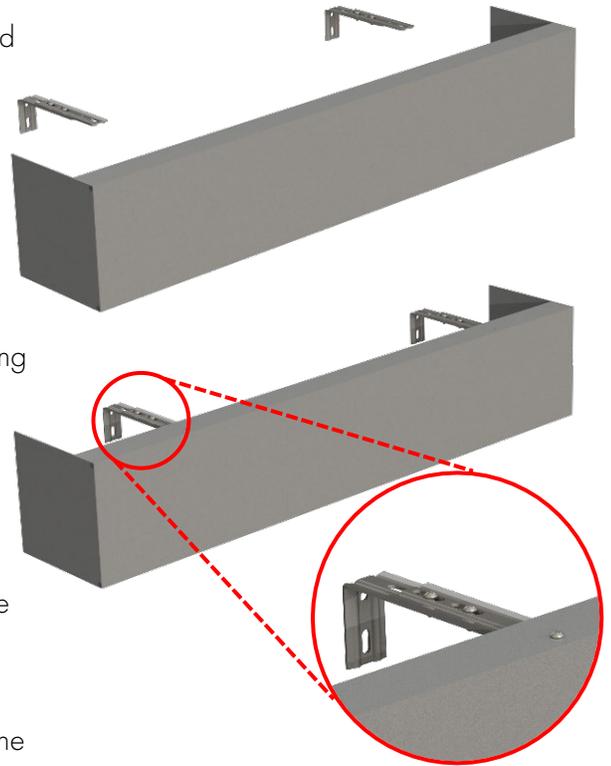




Battery Motor Installation Instructions

B. Outside Mount:

1. End plates are included for this application. Valance is mounted independently from the shade. You will receive exposed brackets for single shade applications or dual shade brackets for dual shade applications.
2. Secure the end plates to the valance with supplied mounting screws. "Dry-fit" the valance at the desired location to ensure shade clearance and proper fit.
3. Determine the location of the L-brackets. Recommended spacing between L-brackets is a maximum 36". Mount L-brackets.
Note if dual shade: the top of the L-bracket must be mounted flush with the top of the shade brackets.
4. "Dry-fit" valance on L-brackets to determine the pre-drill hole location. Loosen L-bracket adjustable screws as required for ease of installation. Pre-drill 3/16" holes in the top return of the valance (holes should be drilled in the groove of the return).
5. Using the supplied fasteners, secure the valance to the L-brackets. Position the valance so the end plates are flush with the mounting surface and firmly tighten the L-bracket adjustable screws.



8.0 Fabric Telescope Adjustment

Fabric telescoping is excessive horizontal movement of fabric while shade rolls up on the tube. Shades are tested and fabric telescoping is adjusted prior to shipment, but additional adjustments may be required depending on each specific application.

If fabric adjustments are required, roll the shade all the way down so the tube is exposed (this will require adjustment of the lower limit using the Battery Motor Programming Instructions).

Place a piece of duct tape, 2"-4" in length, near the edge of the tube on the side opposite of the direction the fabric is moving.

Run the shade up and down a few times. If the shade still telescopes, repeat the process. The correct amount of tape can only be determined by trial and error. Re-set the lower limit after completing shade adjustments.