


# Owner's Manual

## AutoView™ Motorized Shades

Bali is a brand of Springs Window Fashions, the Best Experience Company   
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Z-Wave is a wireless mesh-networking protocol for reliable, intelligent home control of all Z-Wave compatible devices. Z-Wave devices can act as repeaters to create a mesh-network to ensure reliable communication regardless of the manufacturer or type of device. This product can be included and operated in any Z-Wave network with other Z-Wave certified devices from any other manufacturer. Z-Wave devices such as lamp modules, fan controllers, thermostats, dimmer switches, and many other types of home control devices are available from a wide range of manufacturers. The Z-Wave Alliance ([www.z-wavealliance.com](http://www.z-wavealliance.com)) provides a list of manufacturers of Z-Wave compliant devices. Z-Wave was created by Sigma Designs and more details on the technology can be found at [www.z-wave.com](http://www.z-wave.com).

This product can be included and operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers and/or other applications. All nonbattery-operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

The current product controls may establish two Association Groups. Association Group #1 is a dedicated lifeline for secondary controls, primarily used for battery status reports, central scene cc, local reset cc. Association Group #2 is dedicated to slave shades nodes, with a maximum of 12 slave nodes. Normal shade control command will use Association Group #2.

#### FCC Class B Notice

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

**Modifications:** Any modifications made to this device that are not approved by Oracle may void the authority granted to the user by the FCC to operate this equipment.

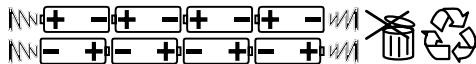
Advance technical information available by contacting customer service.

#### Battery Information for Shades

Use only eight AA Lithium batteries, which are available through most hardware stores, pharmacies, and home centers.

**CAUTION:** Batteries must be installed as shown below. Failure to do so could result in injury and will invalidate your warranty. Do not mix type, brand, or old with new. Do not recharge, disassemble, heat (above manufacturer's specified temperature), or incinerate. Keep batteries out of reach of children and in original packaging until ready to use. Dispose of batteries properly.

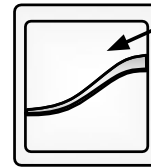
Correct battery orientation and proper battery disposal must be followed.



## Basic Shade Control

Upon first power up, you will see a green light illuminate on the headrail or motor end of the shade. This will happen whenever power is first applied or restored after an outage. Press the UP or DOWN button to operate the shade.

**Note:** You can press and release the opposite directional button to stop the shade while it is in motion.



Press and release the UP button to fully open the motorized shade



Press and release the DOWN button to fully close the motorized shade

**Momentary Movement:** Press and hold the directional buttons (UP or DOWN) to operate shade for fine-tuning. The shade will only travel while the button is depressed. Releasing the directional button will stop the movement.

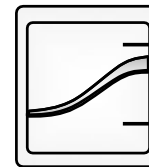
**Jog:** A jog is a brief up and down movement of the shade. This guide references that your shade will jog as you program and adjust it.

## Control Features

How to operate your shade with the two-button remote or optional single-channel remote.



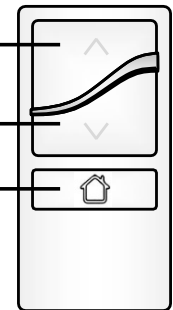
Your controls have been preprogrammed to control your shade. The upper and lower limits and position have already been set. If you are not satisfied with the default upper, lower, or position of your shade, see steps in the following sections of this manual.



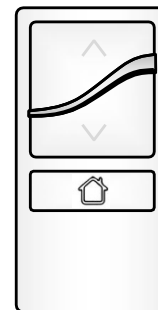
UP Button

DOWN Button

HOME Button  
(Intermediate/Favorite)



## Home Button — Single-Channel Remote



button: Acts as a STOP button while shade is in motion. It can also be programmed as a quick way to bring shades to your preferred intermediate position.

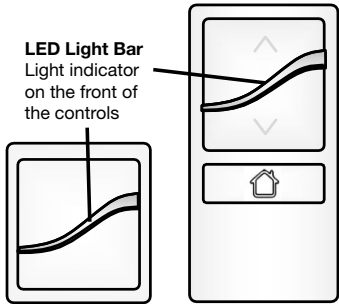
Press and release while your shade is at rest to bring your shade to your position.

Press and release while the shade is in motion to stop the shade.

## LED (Light) Locations and Battery Status

### Remote LED Indications

If the battery within the remote is completely discharged, there will be no LED feedback when a button is pressed. Always replace battery as a first solution if the LED does not light with a button press.

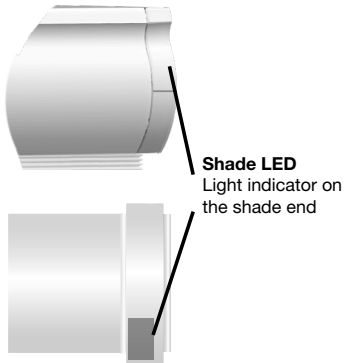


| LED Action                             | When               | Definition                         |
|--|--------------------|------------------------------------|
| Green flashing only                    | After button press | Remote battery is good             |
| Amber flash after green flash sequence | After button press | Remote battery is low              |
| Red flash after green flash sequence   | After button press | Remote battery require replacement |

Replacement battery: #CR2430 Lithium Coin

### Shade LED Indications

The shade LED is located on the end of your shade and provides additional valuable feedback. Avoid excessively bright conditions for better visibility. If there is no operation or LED indication when a command is sent to the shade motor, replace the batteries.

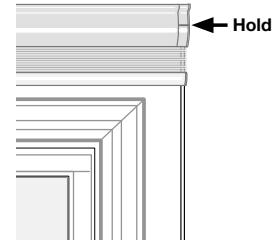


| LED Action     | When                  | Definition                               |
|----------------|-----------------------|--|
| Amber flashing | After motor operation | Shade batteries are at approximately 20% |
| Red flashing   | After motor operation | Shade batteries require replacement      |

Replacement batteries: Eight AA Lithium per battery case; larger shades may require multiple battery cases.

**Use these procedures only if a complete network reset is required.**  
Contact customer service to understand if you need to perform these steps.

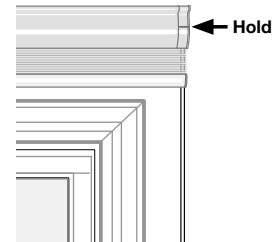
### Network Reset



1. Press and hold the button on the headrail/motor end until the shade jogs once (about seven seconds), then release the button. The LED will go from solid green to flashing green, and then to flashing amber.

**NOTE:** Shade limits are not lost. All controllers will be removed from the motor's memory.

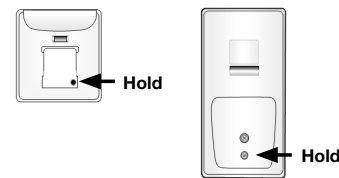
### Local Reset – Motor



1. Press and hold the button on the headrail/motor end until the shade jogs twice (about 15 seconds), then release the button. The LED will go from solid green to flashing green to flashing amber, and then to rapid flashing red.

**NOTE:** Factory limits are set in the motor at about 2" to 4" apart. All controllers will be removed from the motor's memory.

### Local Reset – Remotes



1. Press and hold the programming button until the LED stops flashing. LED will flash green, amber, red, and then finally turn off (about 15 seconds).

**NOTE:** Local reset must be performed on both the controllers and motors. All motors will be removed from the remote's memory.

## Associating Secondary Remotes to Shades

Association is the setting up of a secondary remote in the network to operate specific shade(s). A secondary remote can be associated to any number of shades.

**NOTE:** The shade and remote must be included in the home automation hub's network for this association step.

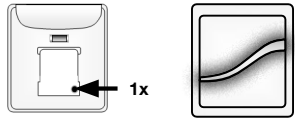


Fig. 31

1. Join a secondary remote to shade(s).
  - A. Press and release the program button on the back of the remote once (one tap). The LED will flash green to identify association mode. (Fig. 31)
  - B. Press and hold the button on the headrail/motor end until the LED begins to flash green (about three seconds) and release. The LED on both the motor and the remote will turn solid green, then turn off and the shade will jog, confirming association. (Fig. 32)

Repeat this process on all shades you want to individually control.

**NOTE:** A primary remote can be identified by double tapping the program button on the remote. If allowed to include or exclude, it is a primary remote. If not, it is a secondary remote.

Identification is as follows:

Double tap (inclusion mode):  
 Alternating amber/green = primary remote  
 Solid red LED = secondary remote

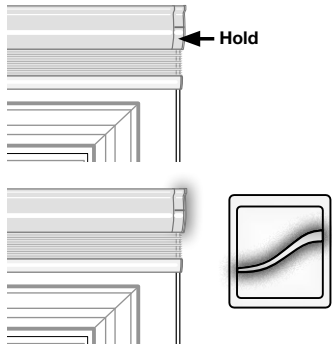
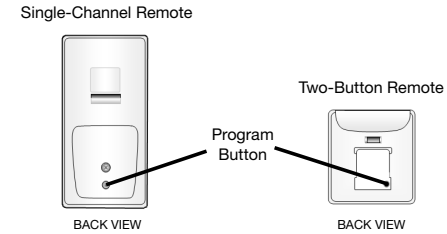


Fig. 32

## Program Buttons

### Remote Program Button

The recessed button on the back of the two-button or optional single-channel remote is used for various programming functions outlined in this guide.



### Shade Program/Operation Button




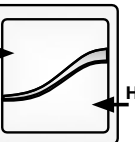
The button located on the headrail or motor end can be used to operate the shade if the remote is misplaced or to confirm various programming functions.



A time-out can occur during programming the remote or motor. When no buttons are pressed within a predetermined amount of time (about 20 seconds), the remote or motor will revert back to a user state. Simply repeat programming steps if the remote or motor has timed-out.

## Adjusting Your Shade's Default Lower Limit (optional)

The lower limit of your shade is factory preset to a closed position matching the ordered length. You may want to adjust the lower limit to accommodate window hardware or other obstructions.

- 
1. Press and release DOWN button. Allow the shade to reach its default lower limit.
- 
2. Once the shade stops, press and hold UP and DOWN buttons simultaneously until LED light on the remote turns amber (about three seconds), then release both buttons. The shade will jog and the LED on the remote will flash green. The LED on the shade will alternately flash green and red.
- 
3. Adjust your lower limit by using UP or DOWN to move your shade to your desired lower limit.\* The shade will only move while UP or DOWN is being pressed.
- 
4. When the shade is stopped at your new desired lower limit, press and hold UP and DOWN buttons simultaneously until the LED on the remote turns amber (about three seconds), then release both buttons. The shade will jog and the new lower limit will be set.




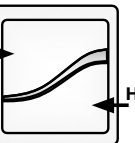


**\*PRODUCT SAFETY NOTE:** Be careful not to exceed the ordered product length, which may result in a damaged product. If your shade will not lower to your desired lower limit, contact a customer service representative for assistance.

**NOTE:** All programming steps are associated with a time-out feature to preserve battery life.

## Adjusting Your Shade's Default Upper Limit (optional)

The upper limit of your shade is factory preset to an open position which protects the shade from damage while maximizing the view. If you desire the shade to have an upper limit at a lower position when fully opened, follow these steps.

- 
1. Press and release UP button. Allow the shade to reach its default upper limit.
- 
2. Once the shade stops, press and hold UP and DOWN buttons simultaneously until LED light on the remote turns amber (about three seconds), then release both buttons. The shade will jog and the LED on the remote will flash green. The LED on the shade will alternately flash green and red.
- 
3. Adjust your upper limit by using UP or DOWN to move your shade to your desired upper limit.\* The shade will only move while UP or DOWN is being pressed.
- 
4. When the shade is stopped at your new desired upper limit, press and hold UP and DOWN buttons simultaneously until the LED on the remote turns amber (about three seconds), then release both buttons. The shade will jog and the new upper limit will be set.



**\*PRODUCT SAFETY NOTE:** When adjusting the upper limit on cellular or pleated shades, do not raise the product too high. This can make the product too tight, which can cause the motor to fail and/or break/fray the internal cording. When installing a solar or roller shade in a fascia or cassette valance, be sure the hem bar does not lift into the fascia or cassette, as this could cause the hem bar to get stuck and/or damage the fabric.

**NOTE:** All programming steps are associated with a time-out feature to preserve battery life.

## Adding Z-Wave® Shades to a Home Automation Hub

Your shades and controls feature built-in Z-Wave radio technology. This allows the shades to be controlled directly by many popular home automation hubs. The process of including the shades and controls into a Z-Wave smart home network starts with first disassembling the current shade/control network. This is referred to as the exclusion process. After the current shade/control network is disassembled, a new network is created with the home automation hub through the inclusion process. Finally, after all shades and controls are included in the smart home network, the remote controls can be added back to the shades for local control through the association process. These steps are outlined below and on the next page.

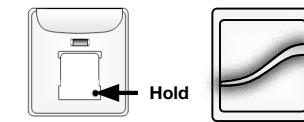


Fig. 28

1. Exclude all remotes from the shade network by performing a local reset on each remote.  
Press and hold the program button on the back of the remote until the LED stops flashing. The LED will flash green, amber, red, and then turn off (about 15 seconds). (Fig. 28)

Repeat this process to exclude each individual remote.

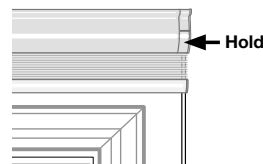


Fig. 29

2. Exclude each shade from the network by performing a network reset.

Press and hold the program button on the shade until the shade jogs once (about seven seconds), then release the button. (Fig. 29)

**NOTE:** Shade limits are not lost. All controllers will be removed from the shade's memory.

3. Include each shade and remote in the home automation hub's network.

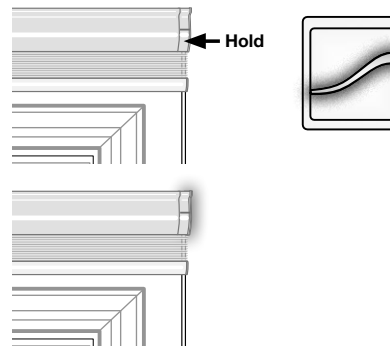


Fig. 30

- A. Initiate device enrollment from the home automation hub's user interface. Refer to the home automation hub's instructions for enrolling new Z-Wave devices. In some cases, the shades/remotes may be enrolled as "Other Z-Wave Supported Device" or within the "Lighting Devices" product sections.

**NOTE:** Inclusion of both the shades and remotes is required for proper operation when using a home automation hub.

- B. Press and hold the button on the shade end until the LED begins to flash green (about three seconds) and release. If inclusion is successful, the shade will appear as a found Z-Wave device in the home automation system user interface. Repeat this step for each shade and remote being added to the home automation system. (Fig. 30)

**Refer to Associating Secondary Remotes to Shades on the next page. This is required for local control by the remotes.**

## Adding Secondary Remotes to a Group of Shades for Individual Control Using a Two-Button Remote as Primary

When adding individual control to shades that are part of a newly formed group, the remote will now be referred to as the secondary control.

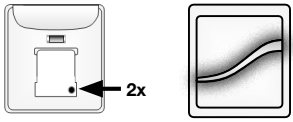


Fig. 24

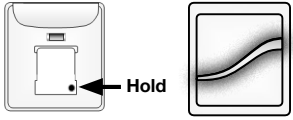


Fig. 25

### 1. Join a secondary remote to the primary remote.

A. Starting with the primary control, press and release the program button on the back side of the current remote twice in rapid succession (two taps). The LED light will alternately flash amber and green to identify inclusion mode. (Fig. 24)

B. Press and hold the program button on the secondary remote control until the LED flashes green (about three seconds), then release the button. Both the primary and secondary remote LEDs will flash green, then turn off, confirming inclusion. (Fig. 25)

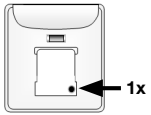


Fig. 26

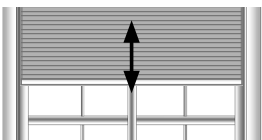
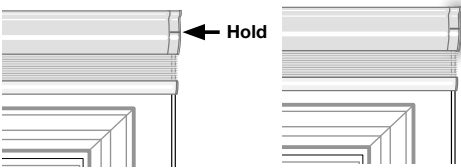


Fig. 27

### 2. Associate secondary control to the motor.

A. Press and release the program button on the back side of the secondary control once (one tap). The LED will flash green. (Fig. 26)

B. Press and hold the program button on the target shade headrail/motor end until the LED flashes green (about three seconds), then release button. The LED on the secondary control will turn green and the shade will jog. Both the primary (group) and secondary (individual) controls will now operate the shade. (Fig. 27)

Repeat this process on all shades you want to individually control.

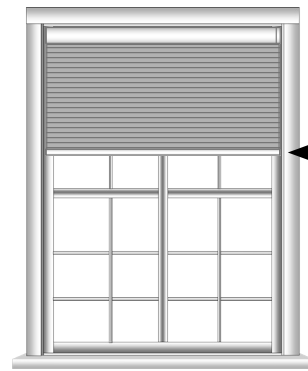


A time-out can occur during programming the remote or motor. When no buttons are pressed within a predetermined amount of time (about 20 seconds), the remote or motor will revert back to a user state. Simply repeat programming steps if the remote or motor has timed-out.

## Adjusting Your Shade's Home Position (optional)

If your shade system includes an optional single-channel remote, it has been preprogrammed to control your shade(s). The default position (intermediate position) is preset to mid-length of your shade. To change the position, follow these steps.

**NOTE:** If the single-channel remote controls multiple shades as a group, refer to the next section.



1. Use the UP or DOWN button to put the shade in motion. When the shade reaches your desired position, press and release to stop the shade.



2. To set your position, press and hold the button until the LED on the remote turns amber (about three seconds), then release the button. The shade will jog and the new position will be set.

**NOTE:** Always adjust the upper and lower limits before adjusting your position. After adjusting the upper or lower limits, the position will reset to the new mid-length position.



A time-out can occur during programming the remote or motor. When no buttons are pressed within a predetermined amount of time (about 20 seconds), the remote or motor will revert back to a user state. Simply repeat programming steps if the remote or motor has timed-out.

## Adjusting the Home Position on a Group of Shades (optional)

If your shade system includes an optional single-channel remote as a group control, it has been preprogrammed to control your shades. The default  position (intermediate position) of all shades is preset to mid-length. To change the  position on multiple shades, follow these steps.

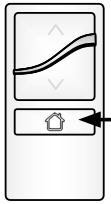


Fig. 1



Fig. 2

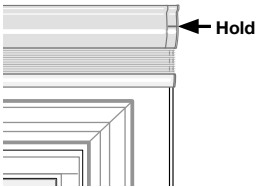


Fig. 3

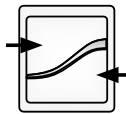
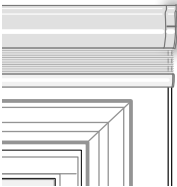


Fig. 4

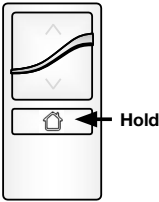
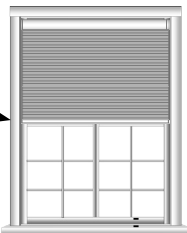
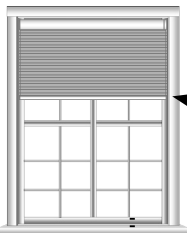











Fig. 5



1. Press and release the  button to bring the group of shades to their preprogrammed  position. (Fig. 1)
2. In order to adjust the  position of each shade, you must first target the individual shade you want to adjust. To do this, press and release the program button on the back of the single-channel remote (one tap). The LED on the remote will flash green. (Fig. 2)
3. Then on the shade that you want to adjust, press and hold the program button on the headrail/motor end until the LED begins to flash green (about three seconds) and release. The shade will jog. (Fig. 3)
4. Using the two-button remote that controls the shade, adjust the shade to the new desired position. (Fig. 4)
5. Using the single-channel remote, press and HOLD the  button until the LED turns amber (about three seconds), then release the button. The shade will jog and the  position of the target shade is now reset. (Fig. 5)
6. Repeat process for additional shades to adjust the new desired  position.

### NOTES:

- Always adjust the upper and lower limits before adjusting your  position. After adjusting the upper or lower limits, the  position will reset to the new mid-length position.
- You are required to access the motor head to adjust the  position.



A time-out can occur during programming the remote or motor. When no buttons are pressed within a predetermined amount of time (about 20 seconds), the remote or motor will revert back to a user state. Simply repeat programming steps if the remote or motor has timed-out.

## Reassigning a Two-Button Remote as a Group Control

This process is followed when the end user desires to reassign a two-button remote to control a group of shades. You must first select which remote you would like to be the group controller, then exclude all other individual two-button remotes.

**NOTE:** This two-button remote will no longer perform as an individual shade controller.

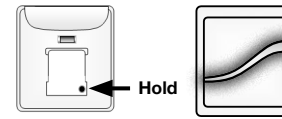


Fig. 20

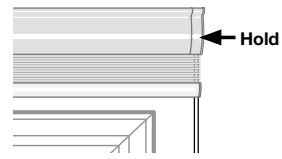


Fig. 21

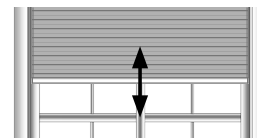


Fig. 21

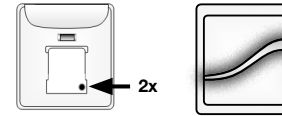


Fig. 22

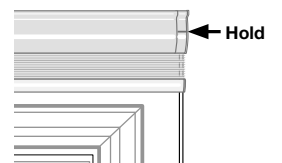
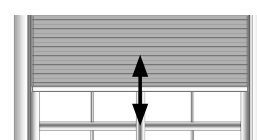


Fig. 23



1. Exclude the two-button remote from the shade they control.
  - A. Press and hold the program button on the back of the remote until the LED stops flashing. The LED will flash green, amber, red, and then turn off (about 15 seconds). (Fig. 20)
  - B. Press and hold the button on the headrail/motor end until the LED begins to flash amber (about seven seconds) and release. The shade will jog, confirming exclusion. (Fig. 21)

Repeat this process to exclude each individual remote, except the one designated as the new group control.

**Go to page 14 to add secondary remotes to shades in the group for individual control.**

2. Include two-button remote as the primary controller of a group of shades.

- A. Press and release the program button on the back of the remote twice in rapid succession (two taps). The LED on the new group remote will alternately flash amber and green to identify inclusion mode. (Fig. 22)
- B. Press and hold the program button on the headrail/motor end until the LED flashes green (about three seconds), and release. The shade will jog and all LEDs will turn off. The shade will now operate from the newly added remote. (Fig. 23)

Repeat this process for each shade to be added to this group.

**Go to page 14 to add secondary remotes to shades in the group for individual control.**



A time-out can occur during programming the remote or motor. When no buttons are pressed within a predetermined amount of time (about 20 seconds), the remote or motor will revert back to a user state. Simply repeat programming steps if the remote or motor has timed-out.



## Adding Secondary Remotes for Individual Shade Control Using a Single-Channel Remote as Primary

When adding individual control to shades that are part of a newly formed group, the remote will now be referred to as the secondary control.

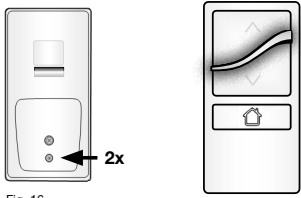


Fig. 16

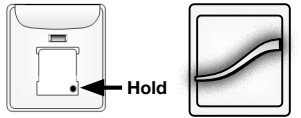


Fig. 17

### 1. Joining a secondary remote to the primary remote.

A. Starting with the primary control, press and release the program button on the back side of the current remote twice in rapid succession (two taps). The LED light will alternately flash amber and green to identify inclusion mode. (Fig. 16)

B. Press and hold the program button on the secondary remote control until the LED light flashes green (about three seconds), then release the button. Both the primary and secondary remote LEDs will flash green and then turn off, confirming inclusion. (Fig. 17)

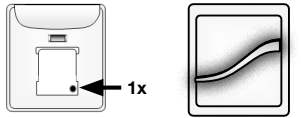


Fig. 18

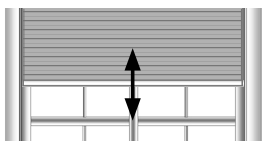
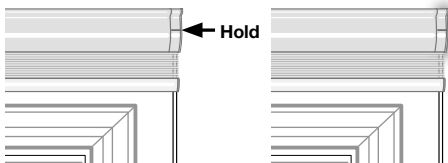


Fig. 19

### 2. Associate secondary control to the motor.

A. Press and release the program button on the back side of the secondary control once (one tap). The LED will flash green to identify association mode. (Fig. 18)

B. Press and hold the program button on the target shade headrail/motor end until the LED light flashes green (about three seconds), then release button. The LED on the secondary control will turn green and the shade will jog. Both the primary (group) and secondary (individual) controls will now operate the shade. (Fig. 19)

Repeat this process on all shades you want to individually control.

## Reversing Motor Direction

Each shade is preprogrammed from the factory to operate up and down corresponding to the appropriate buttons on your remote(s). However, if the directions are inadvertently reversed, follow these steps to return the shade to proper operation.

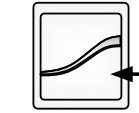
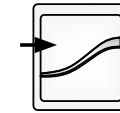
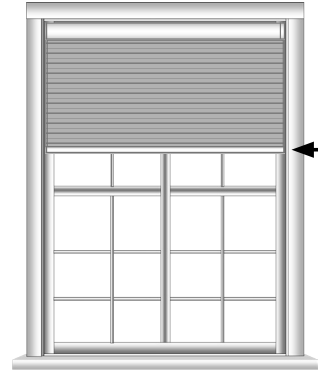


Fig. 6

1. Move the shade to a position between the upper and lower limits. Press and release a directional button to set the shade in motion. Press the opposite directional button to stop the shade. (Fig. 6)

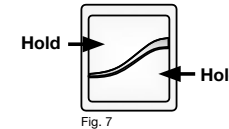


Fig. 7

2. Press and hold UP and DOWN buttons until the LED light turns amber (about three seconds), then release buttons. (Fig. 7)

The shade will jog and the LED on the motor will begin to alternately flash green and red, and the LED on the remote will flash green.

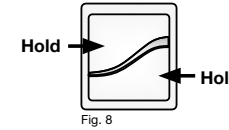


Fig. 8

3. Press and hold the UP and DOWN buttons until the LED turns amber (about three seconds), then release buttons. (Fig. 8)

Shade direction has now been reversed; however, the upper and lower limits have been maintained.



A time-out can occur during programming the remote or motor. When no buttons are pressed within a predetermined amount of time (about 20 seconds), the remote or motor will revert back to a user state. Simply repeat programming steps if the remote or motor has timed-out.



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## Adding Remotes and Creating Groups

Your motorized shades are preprogrammed from the factory with the appropriate pairing and grouping between remotes and shade motors. However, there are several scenarios when additional programming steps are required. The next sections explain how to accomplish the most common scenarios you might encounter. If the appropriate scenario is not included, please contact a customer service representative prior to attempting any adjustments.

### Adding a New Remote When the Only Remote Controlling the Shade is Lost

If you no longer have your remote, or the remote has been damaged and no longer works, follow these steps.

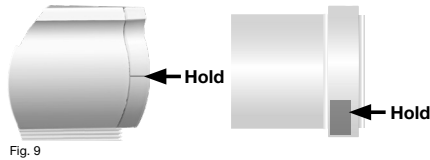


Fig. 9

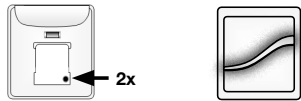


Fig. 10

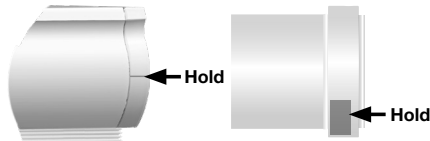


Fig. 11

1. Press and hold the program button on the headrail/motor end. The LED will flash green then amber (about seven seconds). When the shade jogs once, release the button and the LED will turn solid amber and turn off. The motor is now ready to be associated to a new remote. (Fig. 9)
2. Using a paper clip or a similar item, press and release the programming button located on the back side of the new remote twice in rapid succession (two taps). The LED on the remote will alternately flash amber and green. (Fig. 10)
3. Press and hold the program button on the headrail/motor end, and release when the LED flashes green (about three seconds). The shade will jog and all LEDs will turn off. The shade will now operate from the newly added remote. (Fig. 11)

### Adding a New Single-Channel Remote as a Group Control

If a group control was not selected at the time of purchase and is being added to an existing motorized shade, follow the steps below.

**NOTE:** Individual shade control will be restored with the original two-button remote only after it has been reassociated with the shade as a secondary remote. (See next page)

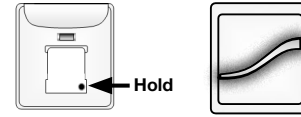


Fig. 12

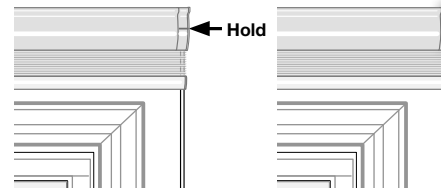


Fig. 13

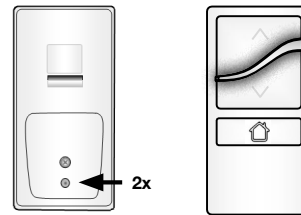


Fig. 14

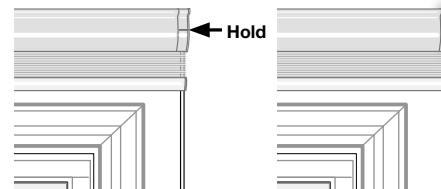


Fig. 15

1. Exclude each of the other individual remotes from the shade they control.
  - A. Press and hold the program button on the back of the remote until the LED stops flashing. The LED will flash green, amber, red, and then turn off (about 15 seconds). (Fig. 12)
  - B. Press and hold the button on the headrail/motor end until the LED begins to flash red (about seven seconds) and release. The shade will jog, confirming exclusion. (Fig. 13)
2. Include the new group remote as the primary control.
  - A. Press and release the program button on the back of the remote twice in rapid succession (two taps). The LED on the new group remote will alternately flash amber and green to identify inclusion mode. (Fig. 14)
  - B. Press and hold the program button on the headrail/motor end until the LED flashes green (about three seconds), and release. The shade will jog and all LEDs will turn off. The shade will now operate from the newly added remote. (Fig. 15)

Repeat this process for each motor to be added to this group.

**Go to page 12 to add secondary remotes for individual shade control.**



A time-out can occur during programming the remote or motor. When no buttons are pressed within a predetermined amount of time (about 20 seconds), the remote or motor will revert back to a user state. Simply repeat programming steps if the remote or motor has timed-out.



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