MOTORIZED SKYLIGHT

Simplicity with rechargeable batteries


Installation & Care Instructions

GETTING STARTED

A few simple tools are required:
- Measuring tape
- Power drill, drill bits
- ¼" Hex head and/or Phillips driver bit
- Pencil
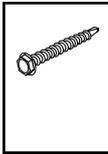- Rubbing Alcohol (if mounting solar panel to glass)

Additional fasteners other than those sent with your shade may be required depending on the mounting surface. Wallboard and plaster require the use of anchors such as expansion or toggle bolts. Brick, tile or stone need special plugs and drill bits. Remember to always pre-drill holes in wood to avoid splitting.
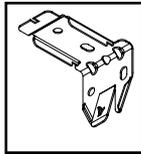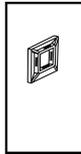
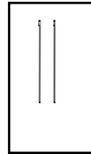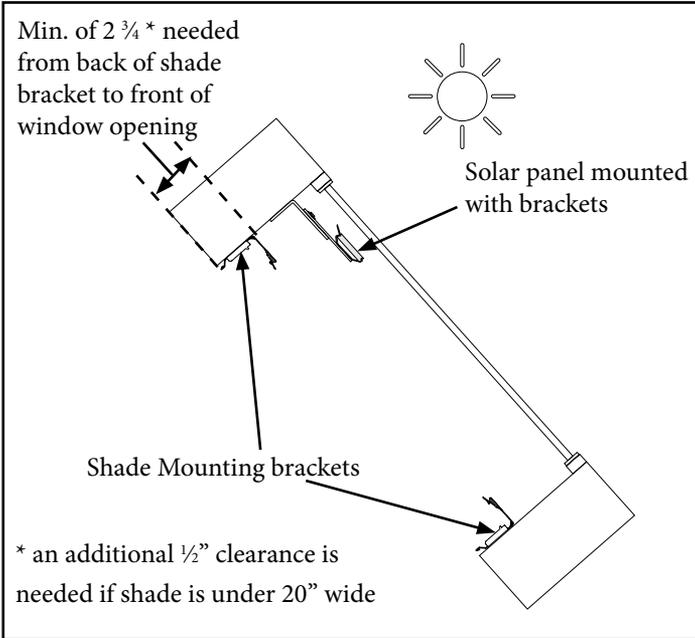| PN: CS4051	PN: 20201012	PN: CS5201	PN: CWV4024
Mounting Bracket	**1 ¼" Hex Head Bracket Screw**	**Cable Tie Mounting Base** (included if solar panel ordered)	**Cable Ties** (included if solar panel ordered)

BATTERY PACK

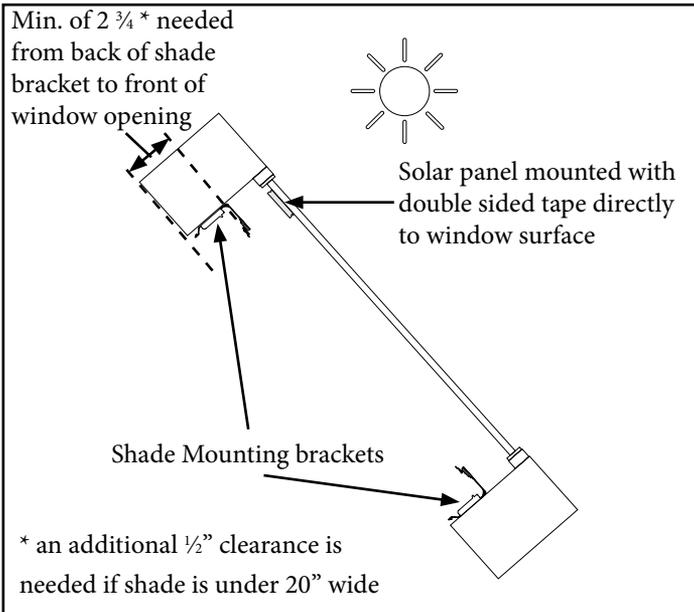Shades 20" wide and wider have the rechargeable battery inside the head rail.

Shades under 20" wide require the rechargeable battery to be mounted on the back of the head rail. This requires an additional ½" clearance for mounting.

½"

Shades under 20" Wide
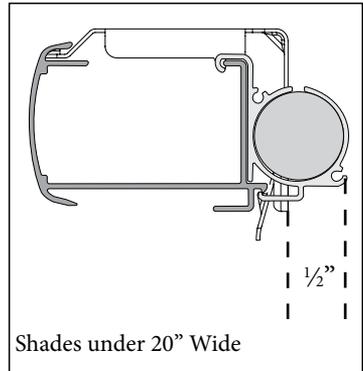
STEP 1: DETERMINE PLACEMENT OF BRACKETS & SOLAR PANEL (if ordered)

Min. of 2 ¾ * needed from back of shade bracket to front of window opening

Solar panel mounted with brackets

Shade Mounting brackets

* an additional ½" clearance is needed if shade is under 20" wide

Solar Panel Mounted with Bracket

Min. of 2 ¾ * needed from back of shade bracket to front of window opening

Solar panel mounted with double sided tape directly to window surface

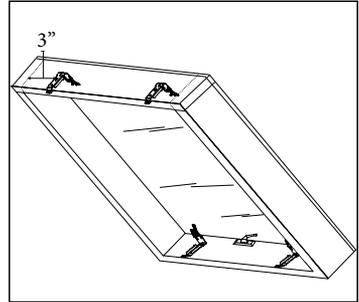Shade Mounting brackets

* an additional ½" clearance is needed if shade is under 20" wide
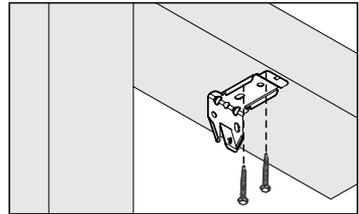
Solar Panel Mounted Directly to Glass

STEP 2: BRACKET INSTALLATION

Shades are shipped with the required number of brackets for proper installation. End brackets should be located approximately 3" from either end. Depending on the width of the shade, additional brackets may be necessary, evenly spaced between the two end brackets.

Using the installation bracket as a template, measure to the edge of the bracket and mark the hole locations with a pencil for drilling. When mounting brackets, make sure they are in line.


STEP 3: INSTALL SOLAR PANEL (IF NOT USING SOLAR PANEL SKIP TO STEP 4)

The solar recharge unit should be placed where is gets the maximum amount of sunlight per day. **In most cases this can be achieved by mounting the unit directly to the glass with double sided tape.**

Brackets are provided if attaching to the glass is not possible.

The brackets may be mounted several different ways depending on the application (window depth, window width, etc.).

The unit requires 19" minimim window width to mount horizontally.
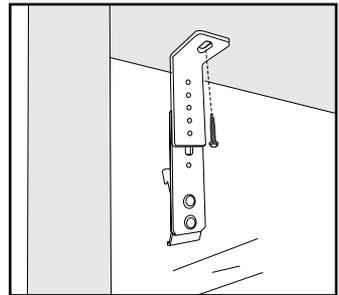
Bottom portion of the bracket may be lowered if needed for more sun exposure.

Bracket can be mounted behind or next to shade mounting bracket.

Note: only two of the holes are threaded.

INSTALL SOLAR RECHARGE UNIT

Remove the clear protective sheet from the solar panel glass.

Tape Method

Cut the tape (part # MI051045) to fit inside the white border as shown. Clean the ends of the solar panel where the tape will go with rubbing alcohol. When dry, remove the release liner from one side of the double sided tape and adhere them to face of the panel. Make sure to put the tape on the face (black side) of the panel.

Clean the window surface with rubbing alcohol. When dry, remove the release liners and attach the solar panel to the glass, pressing firmly to adhere.

Double sided tape
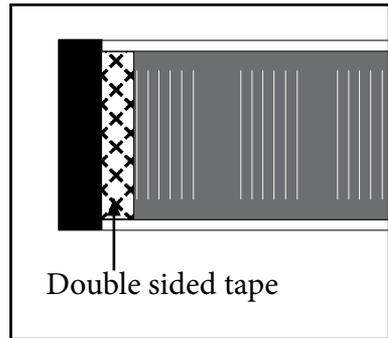
Bracket Method

If using brackets, set the bottom groove of the unit onto the bottom bracket hook. Then press the top of the unit until it snaps into place.

If space is limited it may be easier to attach the brackets to the solar unit before screwing the brackets in place.

4
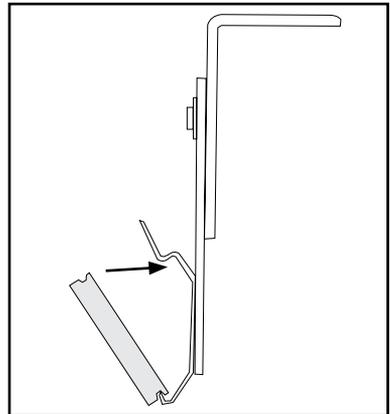
STEP 4: LINK REMOTE

Important: Please read through this section completely before beginning.

The remote control has multiple channels. Before linking the remote, determine which shade you want on which channel. The standard remote has 5 channels, the remote with timer has 6 channels. All shades linked to a remote will also automatically be programmed to the "ALL" channel.
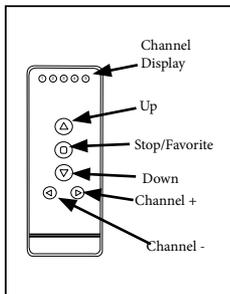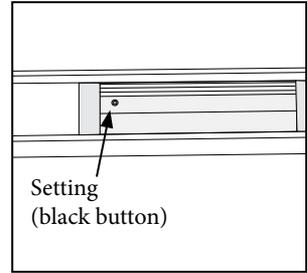
Setting
(black button)

It is recommended to only link one shade per channel unless it is absolutely necessary to group shades other than the "all" channel. This simplifies adjusting limits and setting favorites.

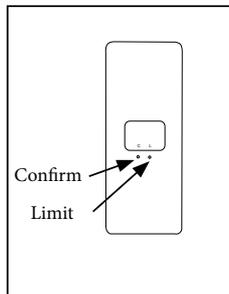Remove plastic film from the front of the remote.

If battery is not already installed in the remote follow the instructions on page 21.

If using a timer remote, Turn the remote on using the power button on the right side of the remote. Then, tap the clock button until you see "MANUAL" in the display.
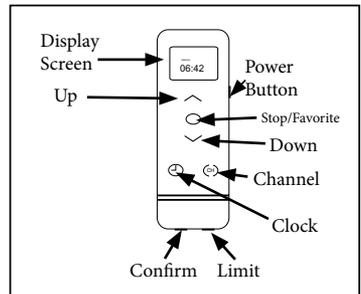
1. Select the channel that you want to link the shade to, using the **CHANNEL** selector button.

2. Press the **SETTING** button on the motor until the motor starts to beep. Release the button immediately after the beeps start. The motor will make 4 fast beeps followed by 5 long beeps. Press the **CONFIRM** button on the remote anytime during the series of long beeps. It must be pressed before the last long beep. The motor will respond with 3 fast beeps confirming that the shade has been linked.

3. Repeat step 2 for all shades that will be controlled by the same channel (it is not recommended to put more than one shade on a channel).

4. Repeat steps 1-3 to link remaining shades to the rest of the channels.

Standard Remote (front)

Channel
Display

Up

Stop/Favorite

Down

Channel +

Channel -

Standard Remote (back)

Confirm

Limit

Timer Remote

Display
Screen

Up

Power
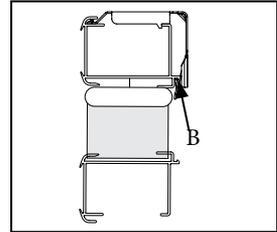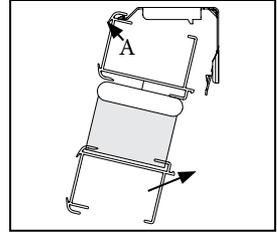Button

Stop/Favorite

Down

Channel

Clock

Confirm   Limit

5

STEP 5: INSTALL TOP RAIL

Start with the top rail/fabric assembly. The top rail is the rail with the motor in it.

Position the rail with the front lip (A) resting on the hooks of all the brackets. Push the rail firmly up and toward the window until the groove on the rail snaps into place, (B) as shown.
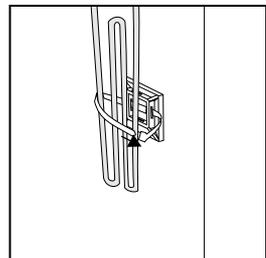
STEP 6: ATTACH SOLAR PANEL
(IF NOT USING SOLAR PANEL SKIP TO STEP 7)

After the top rail is installed, plug the solar unit into the battery recharge port.

Connect Solar Unit Here
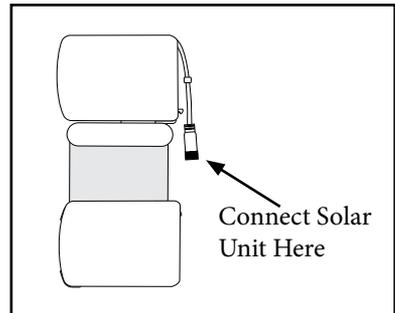
Use the included cable ties and cable tie mounting base to bundle any excess wires.

The mounting base may be adhered to the back of the head rail or any other convenient surface.

STEP 7: INSTALL BOTTOM RAIL

Use the remote to lower the bottom rail all the way down so that it can be attached to the mounting brackets.

STANDARD REMOTE

Select the desired channel with the **CHANNEL** buttons. The channel indicator light will illuminate the channel that is on. If all 5 lights are lit the remote will control all 5 channels at once.

Press the **DOWN** button to lower the shade.

Channel Display
Up
Stop/Favorite
Down
Channel +
Channel -
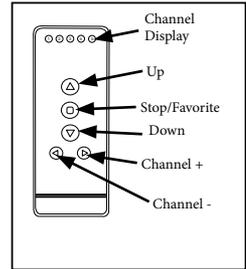
Standard Remote (front)

TIMER REMOTE

The timer remote will function like a standard remote while in manual mode. Tap the clock button until you see "MANUAL" in the display.

Select the desired channel with the **CHANNEL** buttons. The channel will show in the display screen. If all 6 channel numbers are shown, the remote will control all 6 channels at once.

Press the **DOWN** button to lower the shade.

Display Screen
06:42
Power Button
Up
Stop/Favorite
Down
Channel
Clock
Confirm   Limit
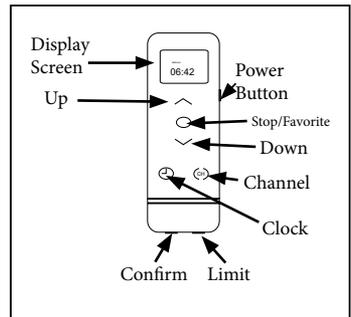
Timer Remote

Position the rail with the front lip (A) resting on the hooks of all the brackets. Push the rail firmly down and toward the window until the groove on the rail snaps into place, (B) as shown.

A

B
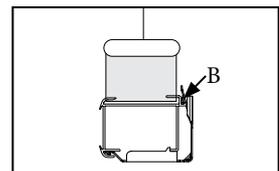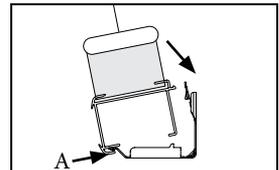
STEP 8: INSTALL TRACKS

Place the track against the front of the top and bottom rails. Attach the track with the screws provided. Space the screws no more than 12" apart.

Follow the same procedure for the other track. Make sure that the 2 tracks are parallel to each other.

Front of track overlaps front of rails

OPERATION

STANDARD REMOTE

Select the desired channel with the **CHANNEL** buttons. The channel indicator light will illuminate the channel that is on. If all 5 lights are lit the remote will control all 5 channels at once.

Tapping the **UP** or **DOWN** buttons for less than 2 seconds will move the shade in short steps. Holding the **UP** or **DOWN** buttons down for more than 2 seconds before releasing will operate the shade in the faster standard speed.

Press the **UP** or **DOWN** buttons to raise or lower the shade.

Press the **STOP** button to stop the shade anywhere along the travel.

Channel Display
Up
Stop/Favorite
Down
Channel +
Channel -

Standard Remote (front)

TIMER REMOTE

Shades can be manually operated while in manual mode. Tap the clock button until you see "**MANUAL**" in the display.

Select the desired channel with the **CHANNEL** buttons. The channel will show in the display screen. If all 6 channel numbers are shown, the remote will control all 6 channels at once.
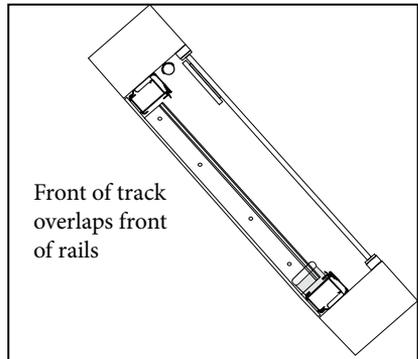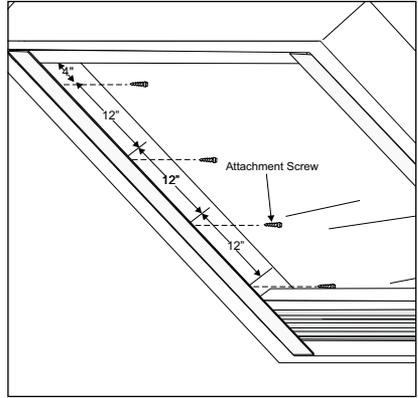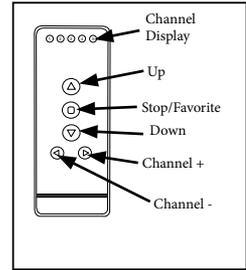
Press the **UP** or **DOWN** buttons to raise or lower the shade.

Press the **STOP** button to stop the shade anywhere along the travel.

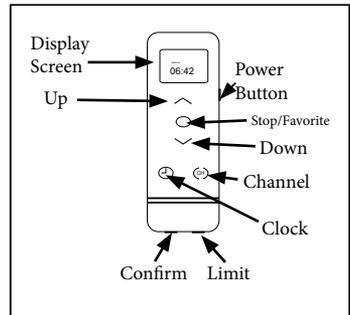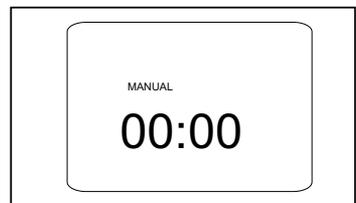Note: The timer remote does not have short step (fine adjustment) capability.

Display Screen
Up
Power Button
Stop/Favorite
Down
Channel
Clock
Confirm   Limit

Timer Remote

MANUAL
00:00

ADJUST MOTOR LIMITS (IF DESIRED)

If using a timer remote, tap the clock button until you see "MANUAL" in the display.

The lower and upper limits have been set at the factory. If you need to make adjustments to the limits, follow the instructions below.
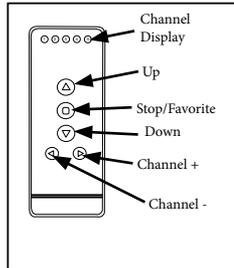
Please Note: When clearing the factory set limits, both the upper and lower limits will need to be reset.

Use the **CHANNEL** buttons to select the channel for the shade that needs to be adjusted. Then follow the directions below.

When adjusting one shade any other shades on that channel need to be temporarily unplugged.

To unplug a shade, remove the shade from the window (see page 21) and unplug the battery pack from the motor. Repeat for all other shades on that channel.

Follow the limit setting instructions on next page and then reattach plug on "turned off" shades.

Channel Display
Up
Stop/Favorite
Down
Channel +
Channel -

Standard Remote (front)

Confirm
Limit

Standard Remote (back)

Display Screen
Up
Power Button
Stop/Favorite
Down
Channel
Clock
Confirm   Limit
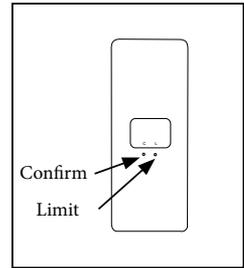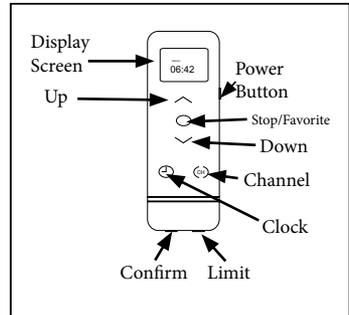
Timer Remote

LOWER LIMIT

Hold the **LIMIT** button until the shade starts beeping.

After the shade stops beeping, use the **DOWN** button to lower the shade. Press stop when the shade is near the desired lower limit.

Use the **UP** and **DOWN** buttons to adjust the length more accurately.

Hold the **CONFIRM** button until the shade makes a series of short beeps. This locks in the lower limit.

UPPER LIMIT

Use the **UP** button to raise the shade. Press stop when the shade is near the desired upper limit.

Use the **UP** and **DOWN** buttons to adjust the upper limit more accurately.

Hold the **CONFIRM** button until the shade makes a series of short beeps. This locks in the upper limit.

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FAVORITE POSITION

SETTING A FAVORITE POSITION

Use the **UP** or **DOWN** buttons to position the shade at the desired "favorite" position. While holding the **LIMIT** button, quickly press and hold the **UP** button. Release both buttons when the shade makes a series of short beeps.

Channel Display

Up

Stop/Favorite

Down

Channel +

Channel -
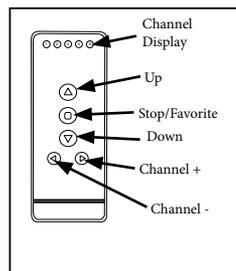
Standard Remote (front)

USING A FAVORITE POSITION

With the shade at either the upper or lower limit, simply press the **STOP/FAVORITE** button to bring the shade to the "favorite" position. To go to the "favorite" position from any other location, make sure the shade has been stopped for at least three seconds before pressing the **STOP/FAVORITE** button.

Confirm

Limit

Standard Remote (back)

Display Screen

06:42

Power Button

Up

Stop/Favorite

Down

Channel

Clock

Confirm   Limit
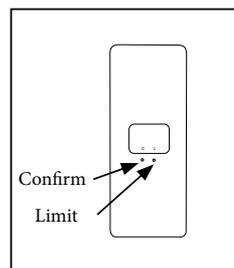
Timer Remote

CHANGING A FAVORITE POSITION

Use the **UP** or **DOWN** buttons to position the shade at the desired "favorite" position. While holding the **LIMIT** button, quickly press and hold the **UP** button. Release both buttons when the shade makes a series of short beeps.
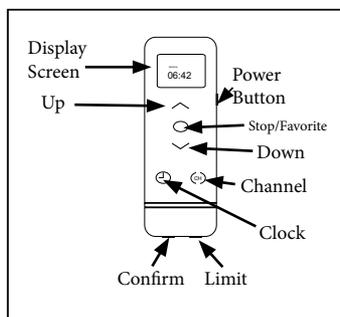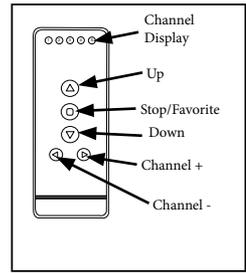
To erase a "favorite" position, bring the shade to the **upper** limit. Press and hold the **LIMIT** button on the back of the remote, then press and hold the **UP** button. Release both buttons when the shade makes a series of short beeps.

Standard Remote (front)

Channel Display
Up
Stop/Favorite
Down
Channel +
Channel -

Standard Remote (back)

Confirm
Limit

Timer Remote

Display Screen
Up
06:42
Power Button
Stop/Favorite
Down
Channel
Clock
Confirm   Limit
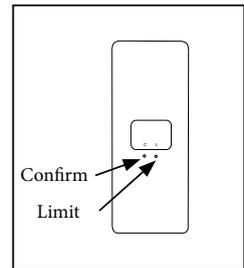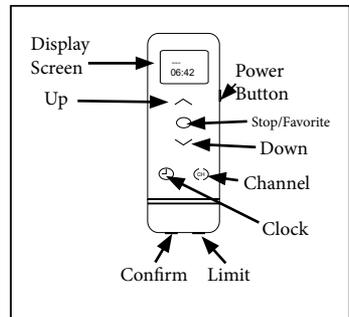
ADVANCED PROGRAMMING

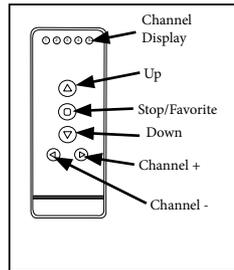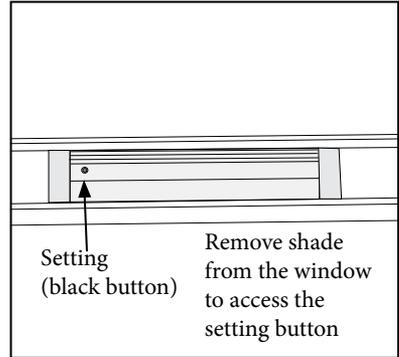### REPLACE ORIGINAL REMOTE, ADD ADDITIONAL REMOTE OR ADD SHADE TO AN ADDITIONAL CHANNEL

1. Select the channel that you want to program using the **CHANNEL** selector button.

2. Press the **SETTING** button on the motor until the motor starts to beep. Release the button immediately after the beeps start. The motor will make 4 fast beeps followed by 5 long beeps. Press the **CONFIRM** button on the remote anytime during the series of long beeps. It must be pressed before the last long beep. The motor will respond with 3 fast beeps confirming that the shade has been linked.

3. Repeat steps 1-2 to program the rest of the channels on a multi-channel remote.

4. All shades linked to a remote will also automatically be programmed to the "ALL" channel.

Setting
(black button)

Remove shade from the window to access the setting button

Channel Display

Up

Stop/Favorite

Down

Channel +

Channel -

Standard Remote (front)

Confirm

Limit

Standard Remote (back)

Display Screen

06:42

Power Button

Up

Stop/Favorite

Down

Channel

Clock

Confirm   Limit
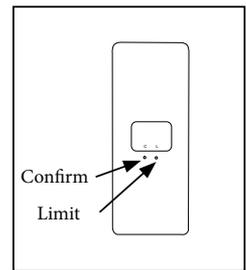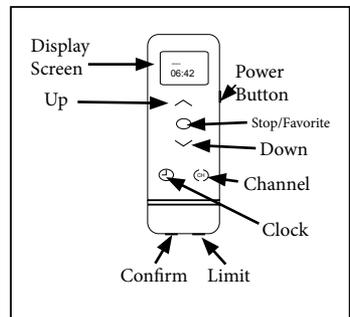
Timer Remote

REMOVE A SHADE FROM A REMOTE OR CHANNEL AND LINK IT TO A DIFFERENT REMOTE OR CHANNEL

Unlink the motor from the remote

1. Select the Channel that you want to unlink.

Please note: All shades on that channel will be unlinked. If you have shades on a channel that you do not want to unlink you must temporarily unplug the motor from the battery pack (inside head rail).

2. Press and hold the **CONFIRM** button. The shade will give a series of fast beeps (4 beeps/ pause/4 beeps/pause/8 beeps)

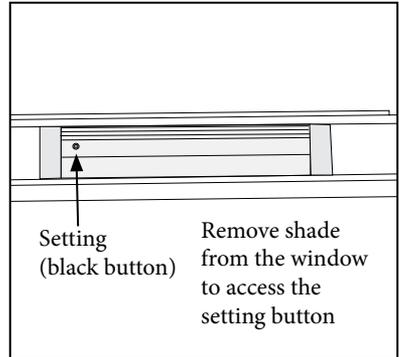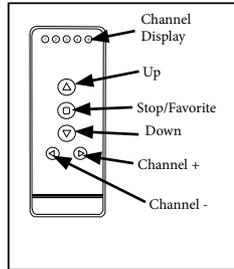When the series of beeps is complete release the **CONFIRM** button.
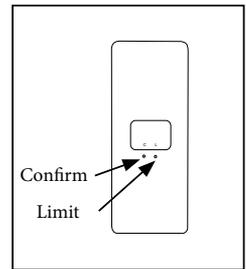
All shades previously linked to selected channel will now be unlinked.

Link the motor to the new remote or channel

1. Follow the steps for replacing the remote on page 14.

Setting (black button)

Remove shade from the window to access the setting button

Channel Display

Up

Stop/Favorite

Down

Channel +

Channel -

Standard Remote (front)

Confirm

Limit

Standard Remote (back)

Display Screen

06:42

Power Button

Up

Stop/Favorite

Down

Channel

Clock

Confirm   Limit
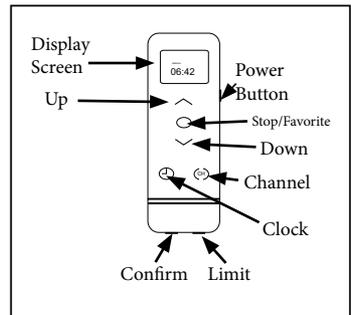
Timer Remote

PROGRAMMING TIMER REMOTE

SETTING CLOCK

Use the power button to turn on the remote.

Tap the **CLOCK** button until you see "MANUAL" in the display.

Push and hold the **LIMIT** button. While holding the **LIMIT** button, push the **CLOCK** button for 3 seconds and release. The hour digits will flash.

Use the **UP** and **DOWN** buttons to set the current hour. **NOTE:** Time is in 24 hour format (military time). For example: 1:00 PM will be displayed as 13:00.

Press **CHANNEL** button to confirm hour and advance to minutes.

Use the **UP** and **DOWN** buttons to set the current minute.

Press **CHANNEL** button to confirm minute and advance to day.

Use the **UP** and **DOWN** buttons to set the current day.

Hold the **CLOCK** button for 3 seconds. Display will flash and then display the current time and day.

Display Screen — 06:42

Up

Power Button

Stop/Favorite

Down

Channel

Clock

Confirm   Limit
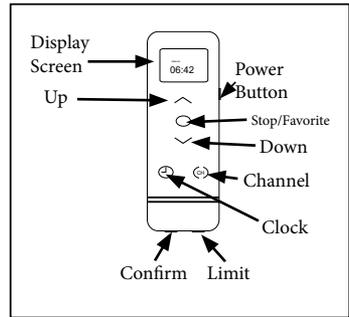
Timer Remote

SETTING TIMER SCHEDULES

The timer remote allows up to 18 different timer schedules. Each timer schedule can be set for multiple channels and days, but only one function can happen at each time.

Use the power button to turn on the remote.

Tap the **CLOCK** button until you see "AUTO" in the display.

While holding the **LIMIT** button, push the **CLOCK** button for 3 seconds and release. The time will flash, then display "NO 1" and the flash "FF:FF". If you want to set a different timer schedule press **CLOCK** for 1 second to scroll through the schedules (NO 1, NO 2, NO 3 etc.). Unprogrammed schedules will display FF:FF.
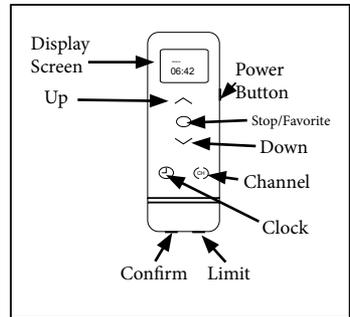
Press **STOP** button and the channel number display along the bottom of the screen will flash.

Use the **STOP** button to select the channel and move on to the next one. Use the **UP** arrow to skip a channel and the **DOWN** arrow to back up. You must press **STOP** for each channel that you want to select. If the channel is still flashing, it has not been selected.

Press **CHANNEL** button to confirm channels and advance to day selection.

Display Screen

Power Button

Up

Stop/Favorite

Down

Channel

Clock

Confirm   Limit

Timer Remote

Auto

FF:FF

Channel

STOP = Select

CH = Confirm

17
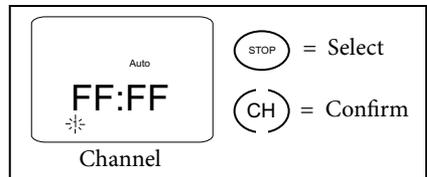
Use the **STOP** button to select the day and move on to the next one. Use the **UP** arrow to skip a channel and the **DOWN** arrow to back up. You must press **STOP** for each day that you want to select. If the day is still flashing, it has not been selected.

Press **CHANNEL** button to confirm days and advance to hour selection.

Use the **UP** and **DOWN** buttons to set the hour. **NOTE:** Time is in 24 hour format (military time). For example: 1:00 PM will be displayed as 13:00.

Press **STOP** button to confirm hour and advance to minutes.

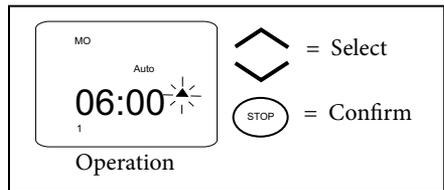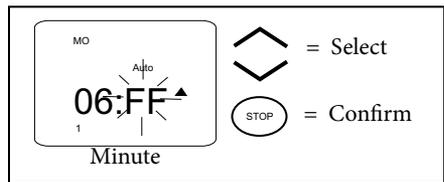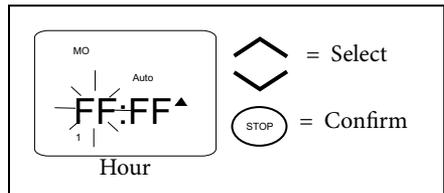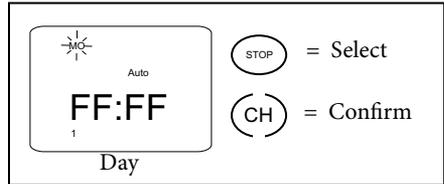Use the **UP** and **DOWN** buttons to set the minutes.

Press **STOP** button to confirm minutes and advance to shade operation.

Shade operation symbols are to the right of the time. Use the **UP** and **DOWN** buttons to select the operation. ▲will raise the shade, ▼will lower the shade, ♦ will bring the shade to the favorite position.

Press **STOP** button to confirm operation.

Push the **CLOCK** button for 3 seconds and release. The display will flash to confirm settings are saved and advance to the next schedule. Repeat the steps above for each desired schedule.

When finished turn the power off to exit the set up mode.

MO Auto **FF:FF** 1 Day	STOP = Select CH = Confirm
MO Auto **FF:FF**▲ 1 Hour	⌄⌃ = Select STOP = Confirm
MO Auto **06:FF**▲ 1 Minute	⌄⌃ = Select STOP = Confirm
MO Auto **06:00** 1 Operation	⌄⌃ = Select STOP = Confirm

IMPORTANT NOTES

- **Remote must be in "AUTO" mode for the set schedules to operate.** To return to "MANUAL" mode, tap the **CLOCK** button.

- When remote is in Auto mode, the display will alternate between the current time/day and the time/day/channel for the next upcoming schedule.

- To disable a schedule, simply reset the scheduled time to FF:FF.

SAMPLE SCHEDULE

NO 1: CH1 & CH2, MO TU WE TH FR, 6:00, ▲

NO 2: CH1 & CH2, MO TU WE TH FR, 21:00, ▼

NO 3: CH1 & CH2, SA SU, 9:00, ▲

NO 4: CH1 & CH2, SA SU, 22:00, ▼

NO 5: CH3, MO TU WE TH FR SA SU, 10:00, ▲▼

NO 6: CH3, MO TU WE TH FR SA SU, 21:00, ▼

EQUALIZATION - IF NECESSARY

Motorized Skylight Shades use a system that allows easy leveling of the moving rail. Use a flat head screwdriver or a coin (a quarter works best) to turn the adjustment screw to raise or lower that side of the moving rail. The adjustment screws are on the top of the moving rail. One quarter turn of the screw will move the moving rail up or down approximately ¼". **Over-turning the adjustment screw (more than 1" of adjustment) can cause the cord to tangle or wedge inside the rail. The screw should turn easily - DO NOT FORCE.**
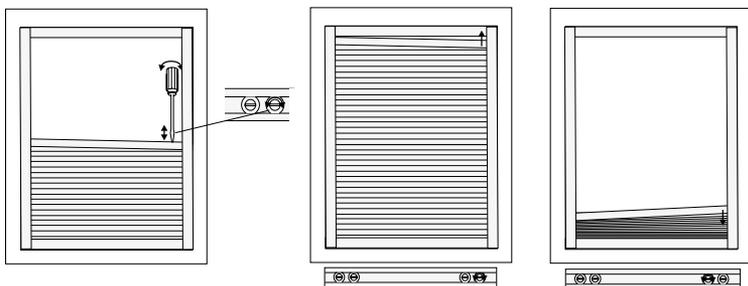
If the rail is uneven at the top, raise the low side with the outer adjustment screw.

If the stack is uneven at the bottom, lower the high side with the inner adjustment screw.

CHARGING THE BATTERY

When the shade begins to operate slower than normal it is time to charge the battery.

Plug the 8.4v charger into the charging wire. The charging wire is attached to the back of the head rail at the right end. If a solar panel is being used, unplug it from the charging wire.

Plug the charger into an electrical outlet.

A red light on the charger indicates that the battery is charging.

Allow the batteries to charge until the light on the charger turns green. A typical charge cycle can take between 4-6 hours.

Do not leave the charger plugged in for more than 24 hours. This could prematurely age the battery.

Charging wire
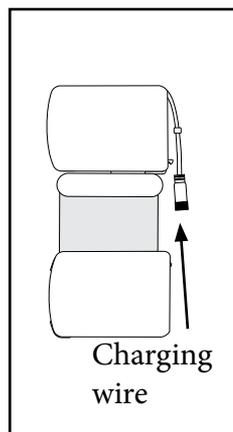
REPLACING THE BATTERY IN THE REMOTE

STANDARD REMOTE

Remove the battery tray from the remote by inserting a fingernail into the indentation on the back of the remote. To avoid the battery falling out of the remote, remove the tray while the remote is face up.

Insert fingernail here
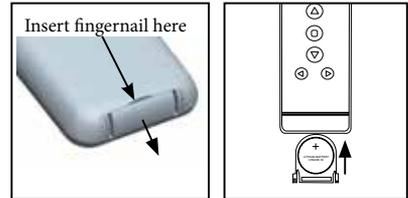
Standard Remote

Insert the new battery (CR2430 lithium) into the battery tray so that the writing is facing up (positive up) when the remote is face up. Slide the tray back into the remote.

TIMER REMOTE

Slide the back of the remote down and then lift off the back cover.

OPEN

CR2450

Insert the new battery (CR2450 lithium) into the battery compartment so that the writing is facing up (positive up) when the remote is face down.
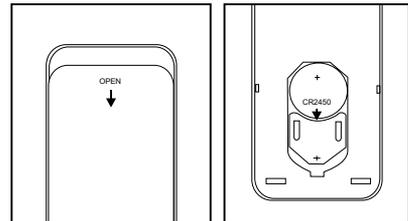
Timer Remote

Replace the back cover on the remote.

SHADE REMOVAL

To remove a shade, first remove the side tracks. Then insert a screwdriver between the rail and the bottom back of the bracket (tab which extends out slightly from each bracket).

Gently pry the screwdriver to release the bracket from the rail. Take care not to damage the painted finish of the rail.

Insert screwdriver here and gently pry

As you release the brackets, support the rail to keep it from falling.
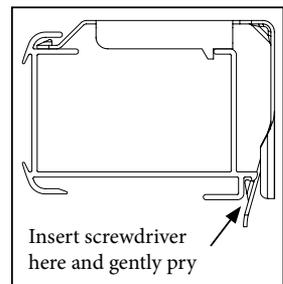
CLEANING AND CARE

The shade fabric is easy to care for. Regular dusting with a feather duster or vacuum cleaner brush is recommended. Most stains can be blotted with a damp sponge and mild detergent. Before using anything stronger than mild detergent and lukewarm water, test an unobtrusive corner of the shade. If you have any questions, call your dealer for advice.

TROUBLESHOOTING

Problem	Solution
The motor does not work and the shade is stuck in the closed position.	Carefully pull down on the moving rail enough to allow access. Follow solution below. If this is required, limits will need to be reset. See Adjust Motor Limits section for setting limits.
The motor does not work	1. Recharge Battery 2. If using a solar panel - be sure that the panel is facing the sun 3. If using a solar panel - there may have been a high draw (operating shade often) with limited sun exposure (multiple cloudy days). If this happens a DC charger may be purchased to give the rechargeable batteries in the shade a boost. Contact your dealer for a charger
The indicator light on the remote does not shine or the remote-controlling range becomes shorter	Replace the battery in the remote (CR2430 for standard remote, CR2450 for timer remote)