Coolaroo®

CUSTOM MADE
EXTERIOR SUN SHADE

MOTORIZATION INSTRUCTION MANUAL

Coolaroo®

(A) Full Valance (Motorized)

(C) Solar Panel

(B) Battery

(G) Shade

(F) Bottom Rail

(D) Bottom Rail Cap with ring

(E) Quick Mount Brackets
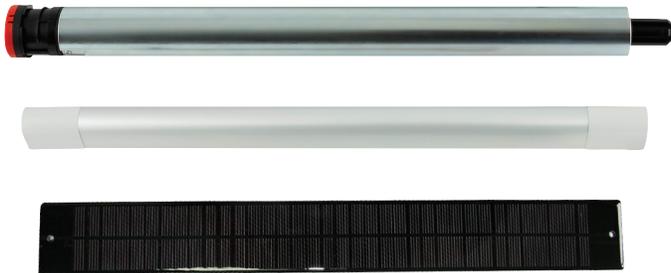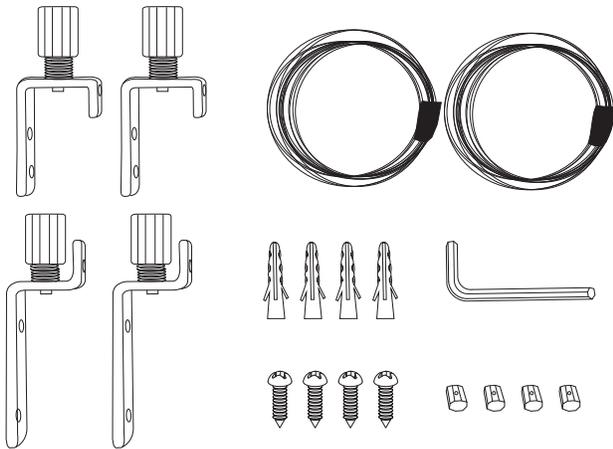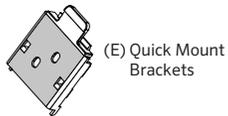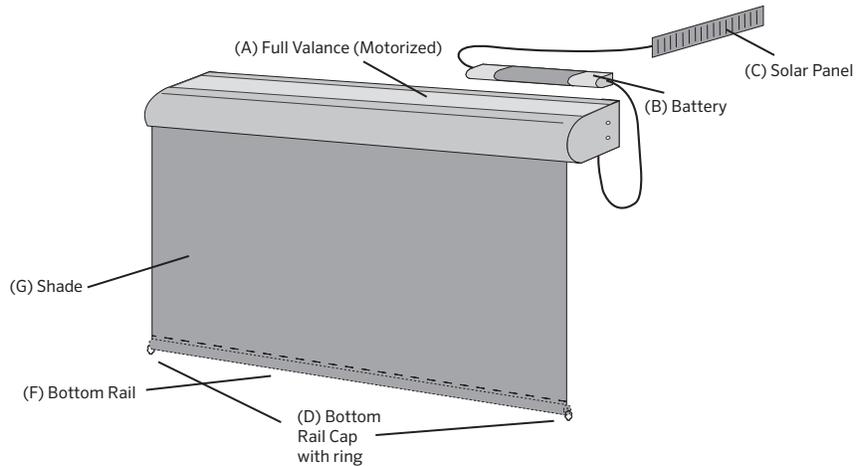
This device complies with part 15 of the FCC Rules. Operating is subject to the following two conditions: (1) This device may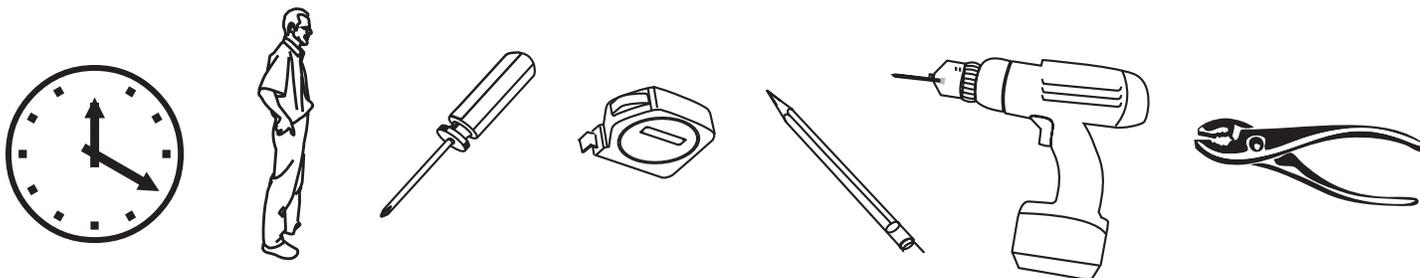 not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

ATTENTION: For the French instruction manual, please visit **www.coolaroousa.com**.

You may also need:

IMPORTANT: PLEASE READ

PLEASE PLACE YOUR AUTOSUN™ SOLAR POWERED EXTERIOR SUN SHADE IN THE SUN ***IMMEDIATELY***. PLEASE PLACE YOUR BATTERY CONNECTED TO THE SOLAR PANEL, WITH THE SOLAR PANEL FACING THE SUN.

NOTE:
a. Approximate installation time is 10-20 minutes.

b. Two people may be required.

c. Your custom blind comes with the motor, battery and solar panel on the right side.

CARE AND MAINTENANCE:
Your sun shade has been made of the finest materials. To clean your shade, simply rinse with water, scrub with soap or any non-abrasive cleaner, rinse and allow to dry. Do not store shade wet. In moist areas, roll blind down frequently to air dry.

WARNING:
It is strongly recommended that in strong wind conditions, your exterior sun shade is completely retracted to prevent damage to windows and your sun shade.

FULL VALANCE INSTALLATION

COMPONENTS

Take all parts out of the box and ensure they are all present.

A.		Full Valance (Motorized)	x1
B.		Battery	x1
C.		Solar Panel	x1
D.	11-BRC	Bottom Rail Cap with rings	x2
E.	11-BRC	Quick Mount Brackets	x3
F.		Bottom Rail	x1
G.		Shade	x1

(A) Full Valance (Motorized)

(C) Solar Panel

(B) Battery

(G) Shade

(F) Bottom Rail

(D) Bottom Rail Cap with ring

(E) Quick Mount Brackets
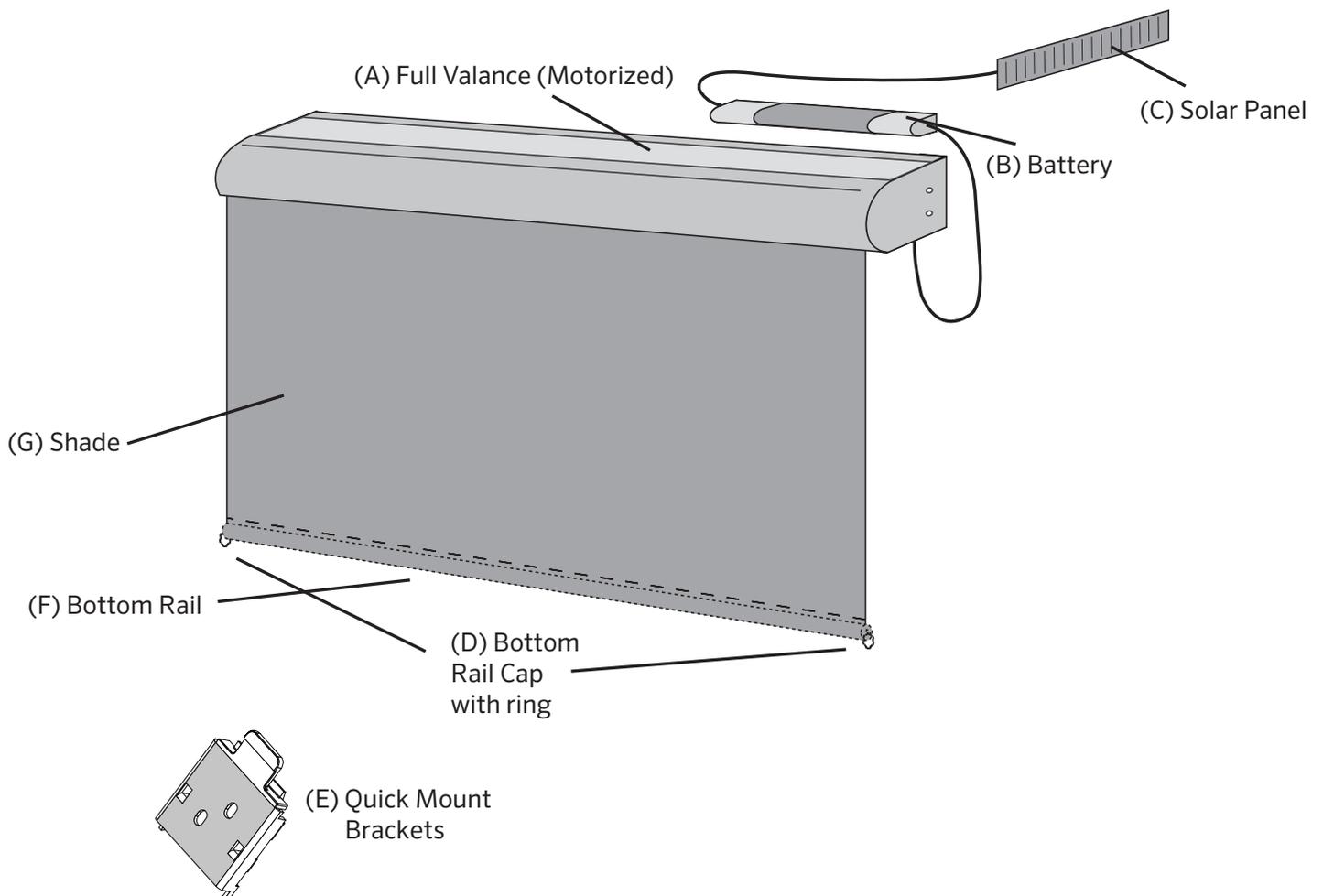
1. DETERMINE DESIRED MOUNTING METHOD

a. This two in one valance design allows you to easily mount the sun shade to either a ceiling (fig. 1) or a wall (fig. 2).

Ceiling   Wall

Fig. 1   Fig. 2

2. MARK THE HOLES

a. Measure 2 inches in from each end of the sun shade and mark for bracket installations.
b. Mark a third location near the center of the sun shade for the third bracket installation.
c. All marks must be made to ensure a level installation of the sun shade for proper functionality.

Fig. 3

this side goes on mounting surface

3. INSTALL THE BRACKETS

a.   In the marked locations, attach Quick Mount Brackets (fig. 4, fig. 5) with screws, into wooded stud.
b. The release tabs on the Quick Mount Brackets must be facing out towards you on the ceiling mount or downwards for a wall mount. This ensures access to the tabs once the sun shade is installed.

Inside

Fig. 4

4. INSTALL THE SHADE

a. Snap the shade onto the Quick Mount Brackets, placing the top of the channel onto the bracket and pushing on the full valance until you hear them snap into place.
b. To remove the sun shade, hold in the release tab on the Quick Mount Bracket. (fig. 6).

Outside

Fig. 5

Wood screws have been provided. If installing into any material other than wood, additional screws may be needed. If unsure, check with a local contractor. (see below)

Self tapping screws > Aluminum
Masonry/Concrete screws > Concrete
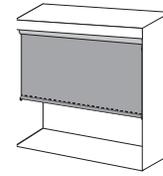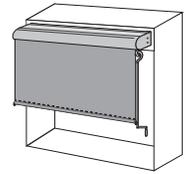*Drywall anchors > Drywall*
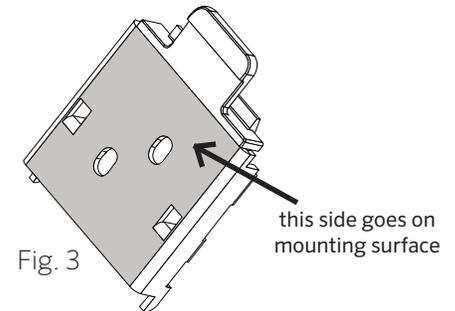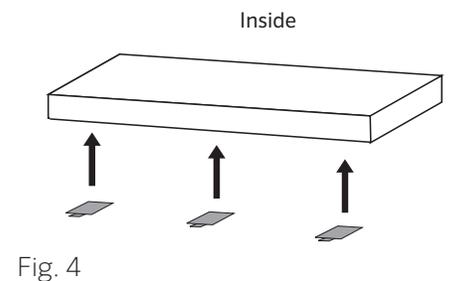*Stainless steel > Outdoors*

release tab
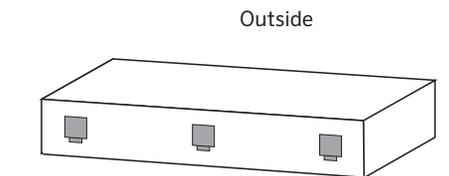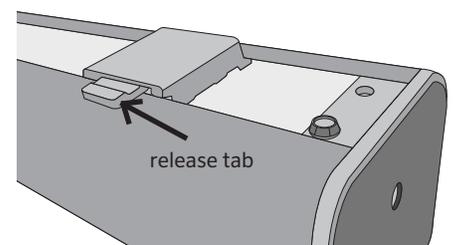
Fig. 6

WIRE GUIDE SYSTEM ASSEMBLY

COMPONENTS

Take all parts out of the box and ensure they are all present.

A.		Bottom Brackets (small)	x2
B.		Wires (13 ft. in length)	x2
C.		Top brackets (large)	x2
D.	11-BRC	Bottom Rail Cap	x1
E.		Masonry Plugs	x4
F.		Allen Key	x1
G.		25mm Screws	x4
H.		Adjustable Wire Fasteners	x4

TOP BRACKETS

Fig 1
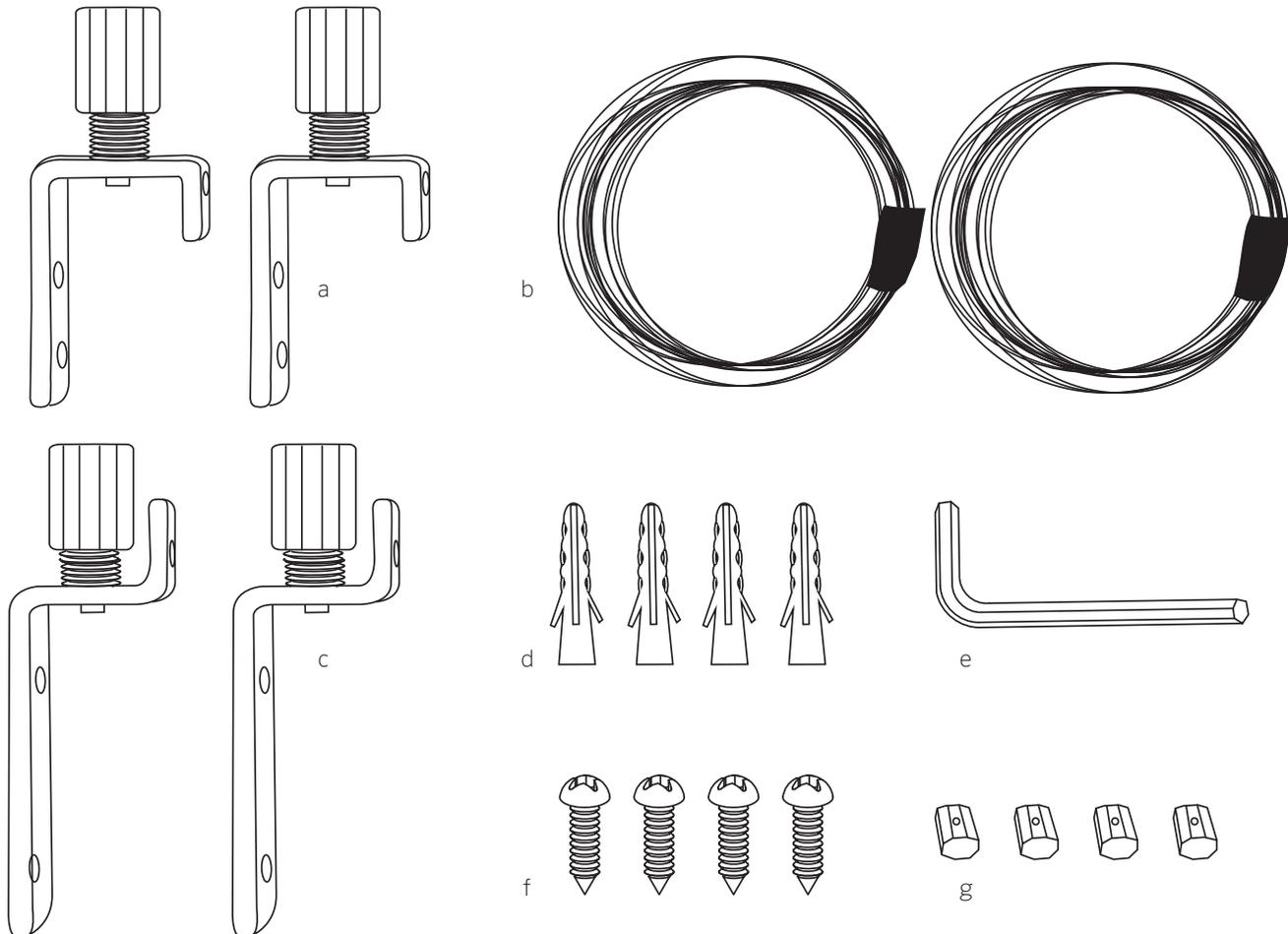
STEP 1
Remove screw end cap from bracket and feed wire through the screw end cap hole (Fig 2).

STEP 2
Feed wire through adjustable fastener (as pictured) and tighten with Allen key (provided). Leave approximately ¼ in. wire overhang. If the wire won't feed through the adjustable wire fasteners, you will need to use an allen key to open it up (Fig 3).

Fig 2

STEP 3
Pull wire and adjustable wire fastener back through the screw end cap, and screw back onto the top wire guide bracket (Fig 4).

Fig 4

STEP 4
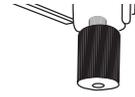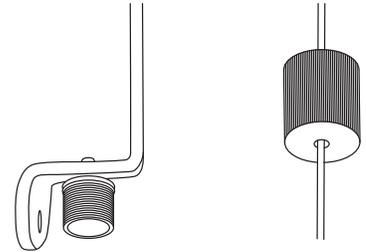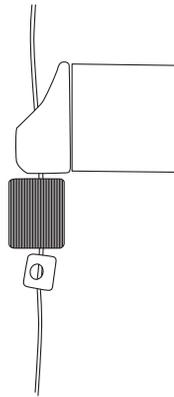Repeat steps 1 – 4 for other top side wire guide bracket.

Fig 5

BOTTOM BRACKETS

STEP 1

Extend roller blind out to your full desired length. The two 'bottom' wire guide brackets will sit below the base rail (as pictured in Fig 1).

NOTE: *Allow for any kind of obstacles such as window winders and window sills, etc.*

Fig 1

STEP 2

Remove screw end cap from bottom wire guide bracket and feed wire through (Fig 2).

STEP 3

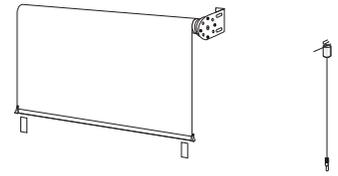Feed wire through adjustable wire fastener. If the wire won't feed, use allen key to open it (Fig 3).
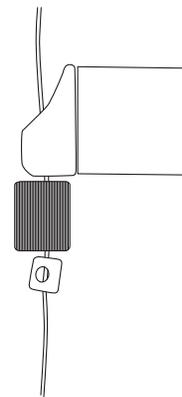
Fig 2

Fig 3

STEP 4

Tighten adjustable fastener with Allen key provided at your desired length, at least ¾ in. below the base rail (Fig 5 & 6).

IMPORTANT:

a. Locate an area on the wall/floor that is suitable for the bottom bracket to be screwed into. Ensure wire guide reaches the suitable drilling point for the bottom bracket. If not, readjust the fastener to the correct length.

b. Allow for any kind of obstacles such as window winders and window sills, etc.

STEP 5

When you are confident you have the right length, cut excess wire with pliers (as pictured). Leave approximately ¼ in. wire overhang (Fig 7).

STEP 6

Reattach bottom bracket by screwing the end cap back into the bracket. Pull wire guide down tight.

STEP 7

Using a pencil, mark drilling holes for the bracket installation (Fig 8).

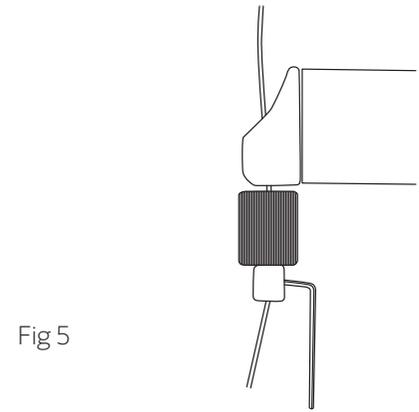IMPORTANT: Ensure bottom bracket is vertically aligned with the top bracket.
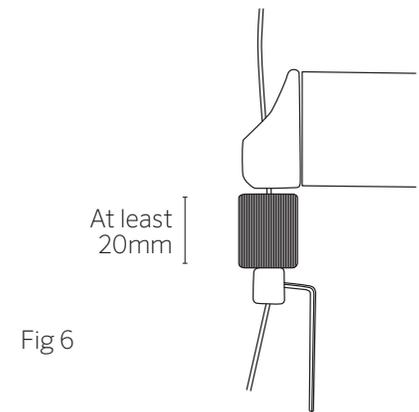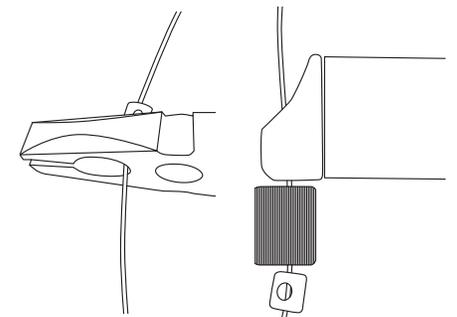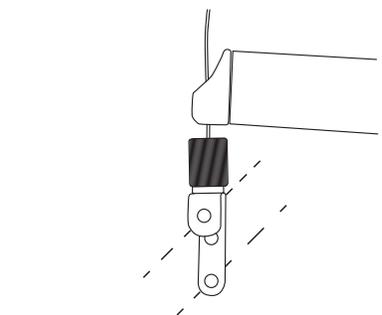
Fig 5

At least 20mm

Fig 6

Fig 7

Fig 8

STEP 9
Drill holes for screws (Fig 9).

STEP 10

Screw bottom bracket into the wall/floor. Ensure bottom wire guide bracket anchor points up (Fig 8).

NOTE: Use masonry plugs if installing directly into concrete/brick wall. Do not install directly into mortar between bricks.

Fig 9

STEP 11
Screw cap down until wire becomes taut.

STEP 12
Repeat process for other side bottom wire guide bracket.

STEP 13
Wire guide installation is now complete, and your roller blind should move freely up and down the wire guide system, with the use of the crank operating wand (Fig 10).
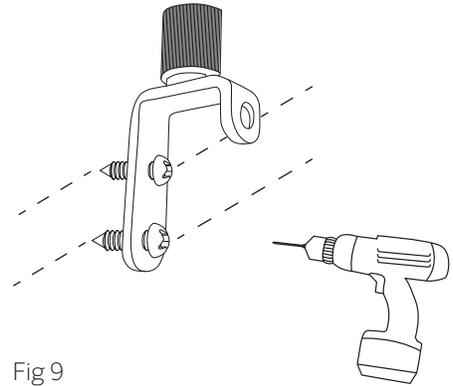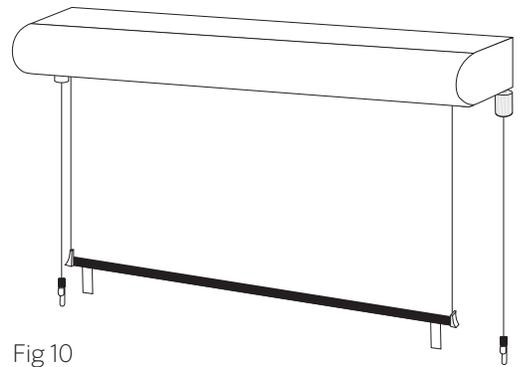

Fig 10

CHANGE DIRECTION OF BRACKET ANCHOR POINTS (IF DESIRED)

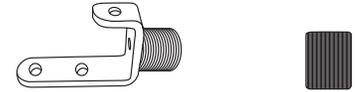**STEP 1**
Remove screw end cap (Fig 1).

Fig 1

STEP 2
Locate Philips head screw inside thread. Use a Philips head screw driver to remove screw and thread (Fig 2).
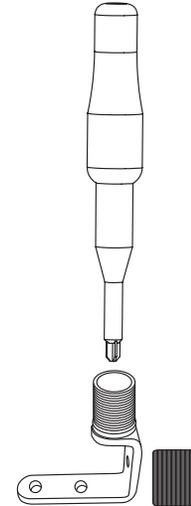
STEP 3
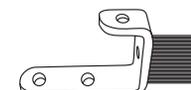Reattach in the desired direction. Replace end cap (Fig 3).

STEP 4
Now follow instructions from Blind Assembly (page 5) and Wire Guide System Assembly (page 6) to install your blind and wire guide.

Fig 2

Fig 3

AUTOSUN™ INSTRUCTIONS

COMPONENTS

Take all parts out of the box and ensure they are all present.

The AutoSun™ system is a complete solar powered motor system.
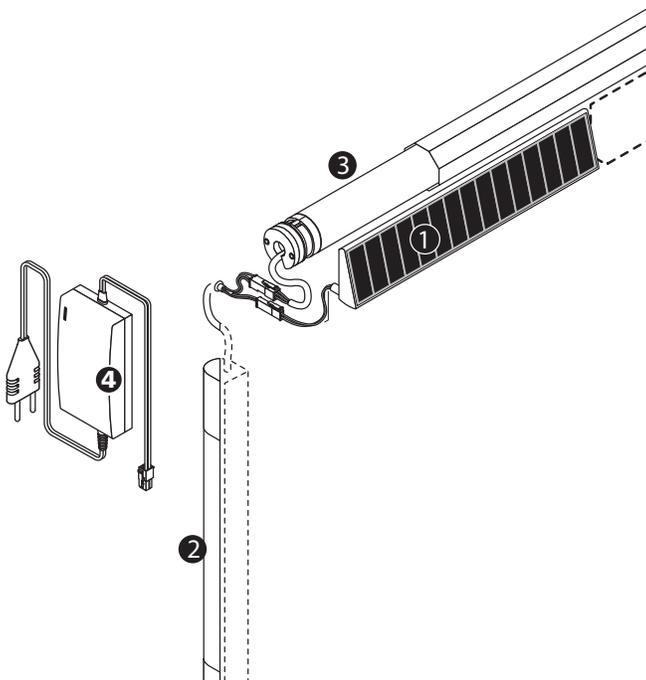
It is comprised of:

AutoSun™ DC ESPHz motor

AutoSun™ battery

AutoSun™ solar panel

1- <u>12V solar panel</u> : Provide the energy needed by the Autosun system
- Current supplied by the panel (Isc) : 196 mA +/- 10%
- Voltage supplied by the panel (Uoc) : 21V +/- 10%
- Power : 3.2W

2- <u>NiMh 12V - 2.2Ah battery pack</u>
- Store electrical energy provided by the solar panel.
- Supply electrical energy required by the motor.
- Enable programming of the motor using the programming button.

3- <u>T3.5 DC ESPHz motor</u>

4- <u>Charger / emergengy power supply</u> **(NOT INCLUDED)**
- Allows rapid recharging of the battery for the Autosun system in case of prolonged low sun level. 2 charges / year max. **(SOLD SEPARATELY)**

1- The solar panel captures the sun's rays and generates electricity.

2- The electricity is transmitted from the solar panel to the battery.

3- The battery powers the shade's motor. The shade is controlled by radio control Somfy transmitter.
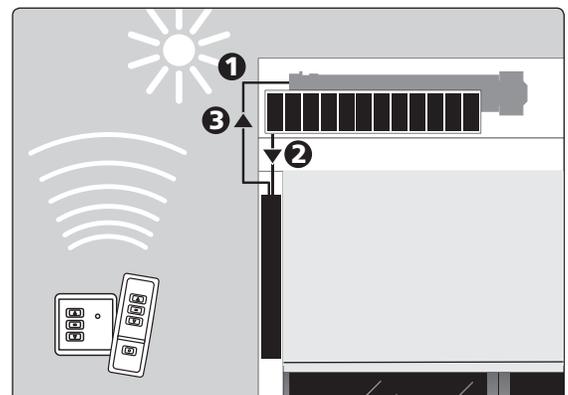
SOLAR PANEL MOUNTING OPTIONS AND RECOMMENDATIONS

1. PRESENTATION

a. By converting solar energy to electrical energy, the solar panel (Ref: 9019032) charges the battery pack.
b. Current supplied by the panel (Isc): 196 mA +/- 10%
c. Voltage supplied by the panel (Uoc): 21V +/- 10%
d. Power: 3,2W

2. FASTENING THE SOLAR PANEL BY RIVETING

The solar panel should preferably be placed on an open area, either on a pergola, gazebo, or wall so as to be exposed as possible to the sun's rays.

a. Ensure that the cables are not damaged during installation. Smooth the edges of all the drilled holes.
b. Do not put anything on the solar panel that would filter the sun's rays (ex. paint).
c. Keep the photovoltaic cells clean by cleaning them with clean water, using a soft cloth to avoid scratching them (once a month).
d. In winter do not allow snow to build up on the panels.

NOTE: The optional extension cable *(sold separately)* must be integrated into a UV resistant conduit.

CAUTION! *The cables and connectors must be protected from the shade movement.*

2.2. Holes in the box and console. (WARNING: do not drill into the panel) (fig. A and B)

2.3. Fixing the panel. (fig. 3)

VISUAL COMPONENT GUIDE

battery 12V - 2.2Ah ref.: 9014734

Fig. 1

T3.5 DC EHz

Fig. 2

Fig. 3

470 mm

60 mm

6 mm

Protective foam
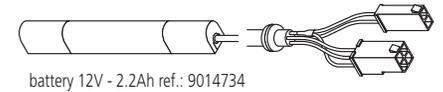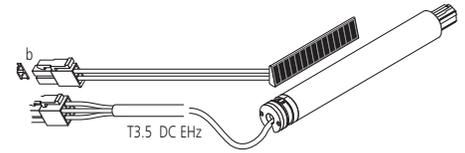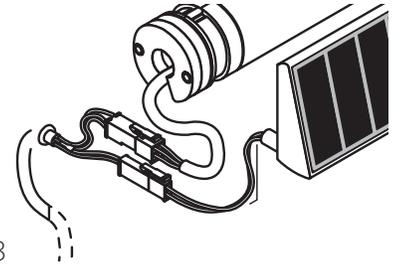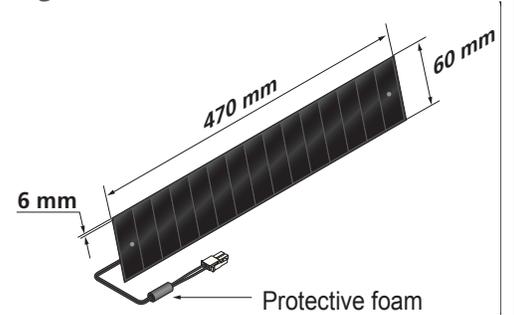
Fig. 4

Drilling measurements (mm) for panel placed **to the left** of the box:

449
28
10,5
Ø16
30
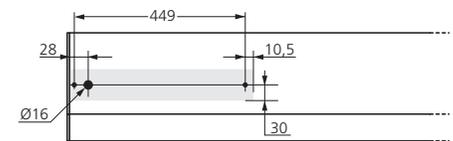
Fig. A

Drilling measurements (mm) for panel placed **to the right** of the box:

449
10,5
28
30
Ø16

Fig. B

18,7 mm Max.
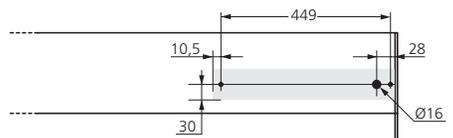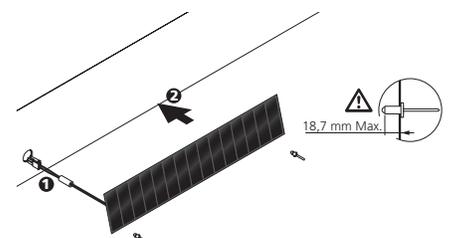
Fig. C

SOLAR PANEL MOUNTING OPTIONS AND RECOMMENDATIONS (continued)

Fig. 1

1. FASTENING THE SOLAR PANEL USING THE MOUNTING BRACKETS

a. The solar panel should always be placed on an open area, either on a pergola, gazebo, or wall so as to be exposed as possible to the sun's rays.

Fig. 2

b. Use optional solar power mounting brackets to "tilt" the solar panel towards the greatest exposure to the sun. (Fig. 1-6)

c. Use the specially designed fasteners to fasten to the panel

Fig. 3

IMPORTANT:
DO NOT DRILL INTO THE PANEL
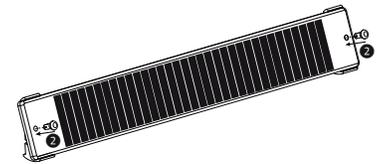
Fig. 4
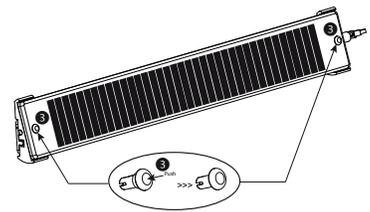
Fig. 5
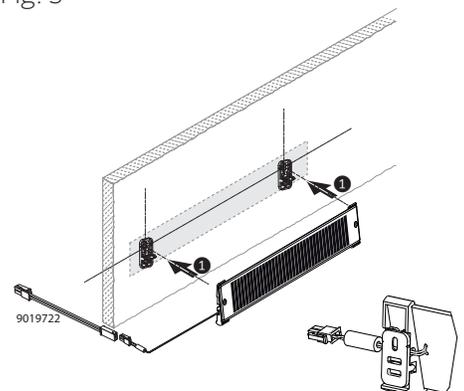
Fig. 6

BATTERY MOUNTING OPTIONS

1. PRESENTATION

The battery pack used in the AutoSun™ solar system has the following functions:

a. Store electrical energy provided by the solar panel.
b. Supply electrical energy required by motor.

Technical Data for battery:

* NiMh battery - 12V/2.2 Ah
* Battery life: approx. 5 years
* Storage temperature: -20 degrees F/+70 degrees C
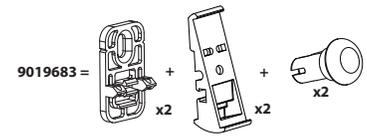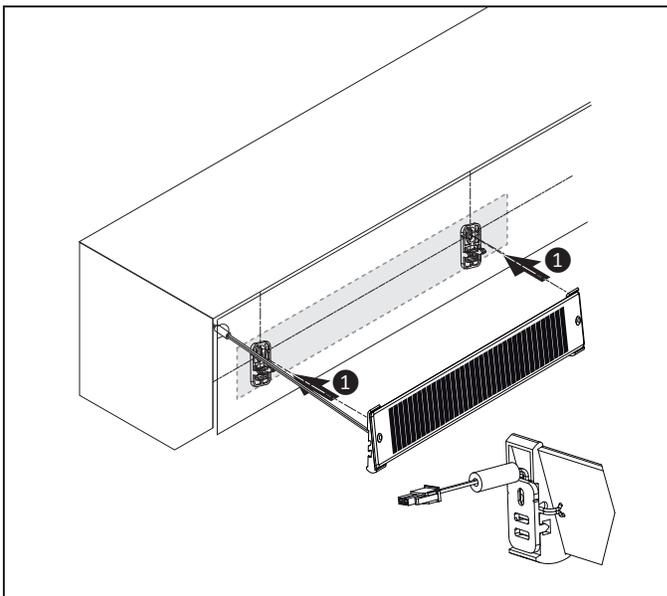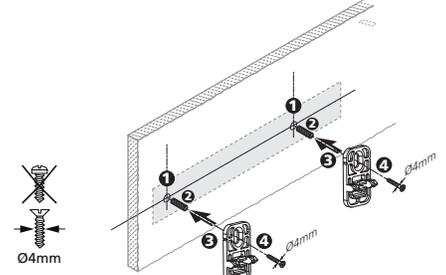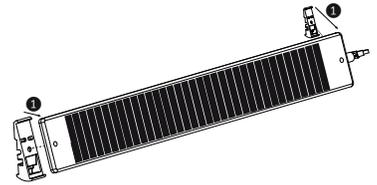* Operating temperature: -20 degrees F/+70 degrees C
* Storage time: max. 6 months at 20 degrees C
* Protection index: IP X4
* Approximate weight: 1.75 lbs.

2. MOUNTING BATTERY PACK WITH TAPE (OPTION 1)

a. Use solvent to clean and wipe the surface for gluing.
b. Pass the battery cable into the base.
c. Remove the protective paper from the adhesive.
d. Press the battery pack into the frame.

NOTE: Use a solvent containing a mixture of isopopyl alcohol and water (50/50) or a heptane-based solvent. Follow all the safety instructions concerning the handling of solvents.

3. MOUNTING THE BATTERY PACK WITH BATTERY MOUNTING BRACKETS (OPTION 2)

a. Measure brackets for mounting battery.
b. Mount brackets with appropriate hardware to surface.
c. Insert corded end bracket to corded end, insert non corded end to its bracket.

Fig. 1

Connector for charger

Programming button

Fig. 2

Fig. 3
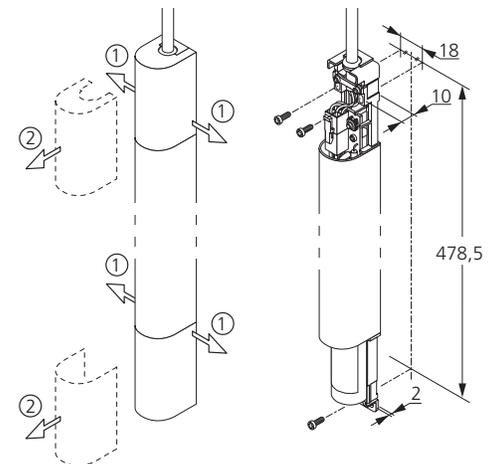
Fig. 4

POWERING UP YOUR SOLAR POWERED SOLAR SHADE

YOUR SOLAR POWERED EXTERIOR SUN SHADE COMES FROM THE FACTORY AT COOLAROO WITH AN INITIAL CHARGE, PLEASE INSTALL YOUR SHADE PROMPTLY OR PLACE THE SOLAR PANEL, CONNECTED TO THE BATTERY AND FACING THE SUN SO IT DOES NOT LOSE ITS CHARGE.

Fig. 1

WARNING: *Do not charge at a temperature above 70 degrees C.*
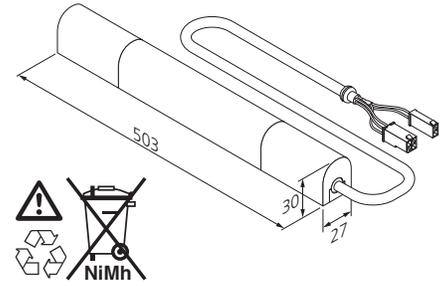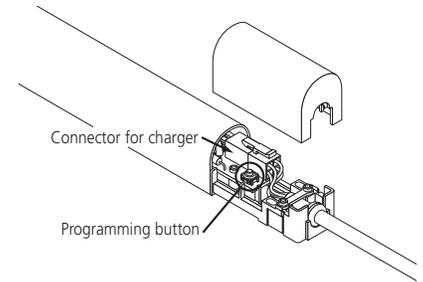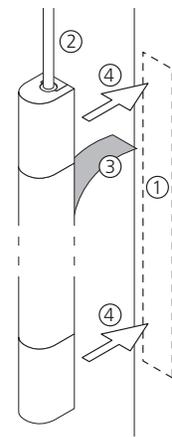
1. CHARGING BATTERY WITH OPTIONAL CHARGER (SOLD SEPARATELY)

- Charge duration: 210 min. max. 2 charges by year max.
- Never leave a battery in a discharged condition.
- No not open or pierce the battery.
- Do not put the battery into a fire, risk of explosion. Keep away (1m minimum) from from all types of flames, sparks or incandescent material.
- Do not create a short circuit on the battery terminals: danger of burns and explosion.
- The battery must be sheltered from the rain (IP X4).
- The battery must be accessible in order to carry out possible recharging (see instruction sheet 5055192).
- Suitable substrates for sticking: runners and box in aluminium, box in PVC (remove the protective films).The surfaces to be glued must be dry and clean.
- The ambient temperature when gluing should be between 20°C (68° F) and 38°C (100.4° F).
- We recommend users run industrial tests in exactly the same conditions as those of the intended application and thereby ascertain that our product satisfies its requirements. If in doubt, opt for the screwing solution.
- The battery must be replaced by a professional with an identical model.
- Do not put in the dustbin, this is a recyclable product.

Fig. 2

210 min.
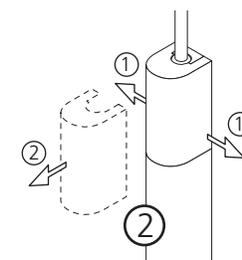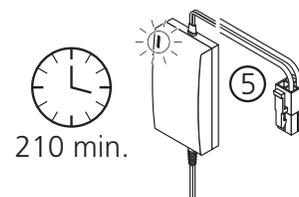
Fig. 3

POWERING UP YOUR SOLAR POWERED SOLAR SHADE (continued)

IMPORTANT:

- Do not recharge other battery types besides those provided for the Autosun system (rechargeable NiMh
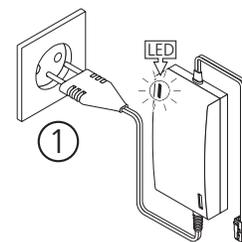- 12V - 2.2Ah battery - réf.9014734), there is a risk of explosion.
- Keep away (1m minimum) from from all types of flames, sparks or incandescent material.
- Do not open the charger, risk of electric shock.
- Do not use the charger if the cable is damaged.
- Do not cover during use.
- Maximum charging time for 1 battery: 210 min.
- 2 charges / year max.
- Minimum charging time to be able to open the shade (with a battery in good condition): 20 minutes.

A. Connect the charger **(sold separately)** to the main supply. The two-colour LED (green / red) lights up green, the charger is ready to use.
B. Disconnect the battery from the motor.
C. Connect the charger to the battery cable. The LED changes colour from green to red.
D. Charging is finished when the LED changes colour back to green. Disconnect the charger from the battery.
E. Reconnect the battery to the motor.

Your solar powered shade is now ready for use.

NOTE: If the battery is fully discharged due to lack of sun, solar panel was covered, etc., you can place the solar panel in direct sun for several hours a day. If the charge doesn't happen, you may need to purchase a charger via our website, **www.coolaroo.com**, or contact customer service at **1-800-560-4667**.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

210 min.
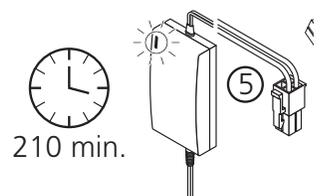
Fig. 5

OPERATION INSTRUCTIONS
Telis RTS Remote Controls Single and Five Channel.

A. PROGRAMMING - ADDING A NEW REMOTE OR OPERATING CHANNEL

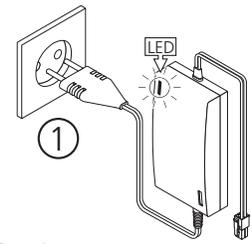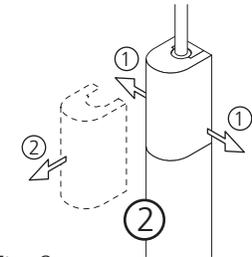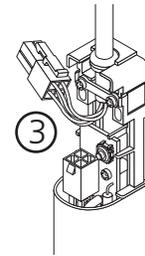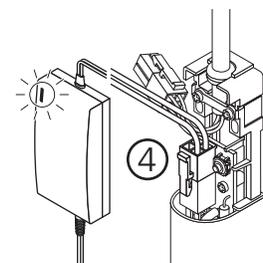A previously programmed remote can be used in order to add a new remote or channel to the Motorized Window Covering. If a Telis Transmitter has not yet been previously programmed, please refer to the installation instructions of the relevant RTS motorized window covering.

1. ADDING A TELIS 1 RTS TRANSMITTER ONLY

a. Using the previously programmed Telis remote, press and hold the programming button on the back of the remote until the window covering "jogs". (fig. 1)

b. Using the new Telis 1 remote, briefly press the programming button until the window covering "jogs". The window covering has now learned the commands of the new Telis remote. (fig. 2)

2. ADDING A TELIS 5 RTS TRANSMITTER ONLY

a. Using the previously programmed Telis remote, press and hold the programming button on the back of the remote until the window covering "jogs". (fig. 3)

b. Using the new Telis 5 remote, select the desired channel using the CHANNEL SELECTOR BUTTON. (The led will illuminate each time the Channel Selector Button is pressed, indicating the selected channel. (fig. 4)

c. Using the new Telis 5 remote, briefly press the programming button until the window covering "jogs". The RTS motorized window covering has now learned the commands of the new Telis 5 remote. (fig. 5)

Previously programmed remote
Pen
Programming Button
BACK VIEW

Fig. 1

New Telis 1 remote to be added
Pen
Programming Button
BACK VIEW

Fig. 2

Previously programmed remote
Pen
Programming Button
BACK VIEW

Fig. 3

LED Lights
Channel Selector

Fig. 4

New Telis 5 remote to be added
Pen
Programming Button
BACK VIEW
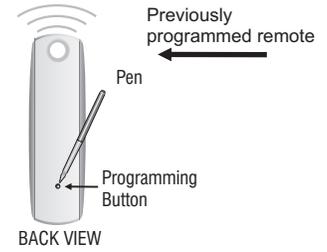
Fig. 5

OPERATION INSTRUCTIONS (continued)

Fig. 1

B. PROGRAMMING - SETTING A FAVORITE POSITION (MY BUTTON)

In addition to standard OPEN and CLOSE features, the Telis remote enables the user to pre-establish a favorite stop location. a.k.a. "MY" (stop) favorite position. An example could be to command the RTS motorized window covering to a 50% or 75% open or closed position when the "MY" button is briefly pressed.

1. TELIS 1 RTS TRANSMITTER ONLY:

a. Using the **UP** (⌃) or **DOWN** (⌄) buttons, activate the window covering to a desired position, for example halfway Open or Closed. Briefly press the "**MY**" (my) (stop) button to stop the window covering once position is reached. (fig. 1)

Fig. 2

b. Press and hold the "**MY**" (my) button until the window covering "jogs." Favorite position is now recorded. (fig. 2)

c. Favorite "**MY**" (my) position can be activated from any previous window covering position. **Example:** Briefly press the "**MY**"(my) button while window coverings in a Open or Closed position. (fig. 3)

Fig. 3

2. TELIS 5 RTS TRANSMITTER ONLY

a. Using the Telis 5 remote, select the appropriate channel using the **CHANNEL SELECTOR BUTTON**. (The LED lights will illuminate each time the Channel Selector Button is pressed, indicating the selected channel) (fig. 4)

LED Lights

Channel Selector

Fig. 4

b. Using the **UP** (⌃) or **DOWN** (⌄) buttons, activate window covering to a desired position, for example halfway Open or Closed. Briefly press the "**MY**" (my) (stop) button to stop the window covering once position is reached. (fig. 5)

NOTE: Activating window covering to a favorite position while already "in-motion" will require two brief presses of the "**MY**"(stop) button. - OR -   Window covering MUST BE in a stationary (Stopped) position before the "**MY**" favorite position can be activated.
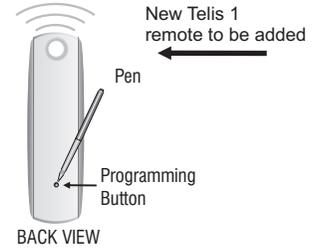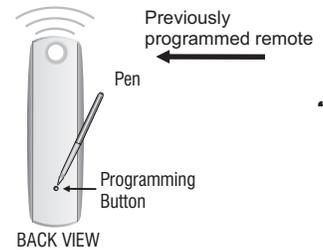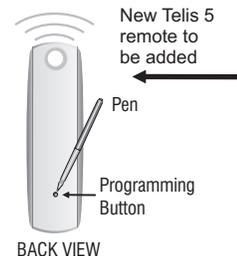

Fig. 5

OPERATION INSTRUCTIONS (continued)

C. OPERATING THE MOTORIZED WINDOW COVERING

In addition to standard **OPEN** and **CLOSE** features, the Telis remote enables the user to pre-establish a favorite stop location. a.k.a. "MY" (stop) favorite position. An example could be to command the RTS motorized window covering to a 50% or 75% open or closed position when the "MY" button is briefly pressed.

Fig. 1

1. TELIS 1 RTS TRANSMITTER ONLY:

a. Use the **UP** (   ) or **DOWN** (   )Buttons to open or close the window covering. If a specific position is necessary, briefly press the "**MY**" (   ) (stop) Button to stop the window covering once position is reached. (fig. 1)

LED Lights
Channel Selector

Fig. 2

2. TELIS 5 RTS TRANSMITTER ONLY

a. Using the Telis 5 remote, select the appropriate channel using the CHANNEL SELECTOR BUTTON. (The LED lights will illuminate each time the Channel Selector Button is pressed, indicating the selected channel) (fig. 2)
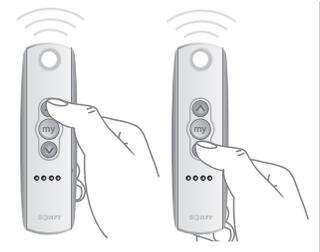
b. Using the **UP** (   ) or **DOWN** (   )
Buttons to open or close the window covering. If a specific position is necessary, briefly press the "**MY**" (stop) (   ) Button to stop the window covering once position is reached. (fig. 3)

Fig. 3

D. OPERATING THE MOTORIZED WINDOW COVERING

a. Using a small screwdriver, losen the screws on the reverse side of the remote control and remove the back cover. (fig. 4)

b. Replace the battery with one 2430 Lithium 3V battery. (fig. 4)

NOTE: In case of a lost transmitter, professional programming assistance is required. please contact
Somfy at **somfytech@somfy.com** or your local dealer at **www.somfysystems.com/locatedealer**.

Fig. 4

OPERATION INSTRUCTIONS (continued)

E. ADJUSTING THE END LIMITS AFTER THE MOTOR HAS BEEN PROGRAMMED

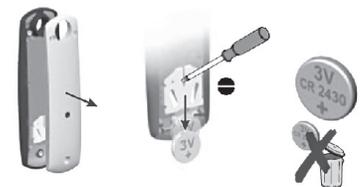a. To change the upper limit run the motor to its upper limit and let it stop. Press the **UP** and **DOWN** buttons simultaneously until the motor jogs. Run the motor to the new desired upper limit. Press and hold the **MY/STOP** button until the motor jogs. Check the new limit.

b. To change the lower limit, run the motor to its lowe limit and let it stop. Press the **UP** and **DOWN** buttons simultaneously until the motor jogs. Run the motor to the new desired lower limit. Press and hold the **MY/STOP** button until the motor jogs. Check the limit.

E. ADJUSTING THE END LIMITS AFTER THE MOTOR HAS BEEN PROGRAMMED

a. **To add or delete a remote/channel**, press the **PROGRAMMING** button on the back of an already programmed remote/channel until the motor jogs. Next press the **PROGRAMMING** button on the back of the remote/channel you wish to add or delete until the motor jogs

b. **To reset the motor to factory mode**, start with the motor connected to the power. Cut power for 8 seconds, reconnect power for 8 seconds, cur power for 8 seconds and then reconnect power. The motor should start to run (if this does not happen, repeat the 8 second power cuts until the motor does run). Allow the motor to stop on its own (do not press stop, up or down or you will have to repeat the double power cut). Once the motor stops on its own, press and hold the **PROGRAMMING** button for over 8 seconds. The motor should jog twice.

F. PERFORM A DUAL POWER CUT TO DELETE ALL PREVIOUS SETTINGS AND RETURN MOTOR TO FACTORY MODE

a. Unplug the battery cable from the motor cable for 5 seconds.
b. Plug the battery back into the motor cable for 10 seconds.
c. Unplug the battery cable from the motor cable for 5 seconds.

NOTE: When the shade stops, press and hold the **PROGRAMMING** button of any transmitter until the window covering jogs twice. Do not release the **PROGRAMMING** button until the jogging is complete or you will have to start the dual power cut form the beginning.

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To register your product, go to **coolarousa.com**. The products code can be
found printed above the barcode on the product packaging, alternatively
you can find it on the relevent **coolarousa.com** product page.

Attention: The schematics in this manual are for assemble and operation
illustration only. They may differ from the blind's actual appearance.

⚠ WARNING

Use of solvents or abrasive cleaners may damage the fabric and will void your warranty. Do not use bleach or chlorine.
It is strongly recommended that in strong wind conditions, your Exterior Window Blind is completely retracted to prevent
damage to windows and your Window Blind.

For help with product assembly
or for any other questions
you may have, contact out
Customer Service Department.

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U.S. Ph: 1 407 772 7979

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