

GETTING STARTED - continued

7. ADDING A REMOTE CONTROL

USING AN EXISTING REMOTE CONTROL

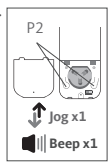
a. On the **current** remote control, press one “**P2**” button until motor jogs x1 and beeps x1.

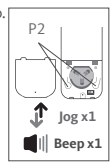
b. Once more, on the **current** remote control, press one “**P2**” button until motor jogs x1 and beeps x1.

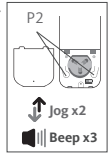
c. On the **New** remote control, press one “**P2**” button until motor jogs x2 and beeps x3.

Action on Remote Control

Motor Response

a.  **Current Remote Control**
↓ Jog x1
Beep x1

b.  **Current Remote Control**
↓ Jog x1
Beep x1

c.  **NEW Remote Control**
↓ Jog x2
Beep x3

*Repeat the same procedure to add/remove additional remote control.

PROGRAMMING A NEW REMOTE CONTROL

Follow instructions under the section **1. Pair / Unpair Remote Control**

8. ADJUSTING THE MOTOR SPEED

INCREASE MOTOR SPEED

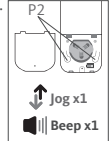
a. Press one “**P2**” button until motor jog x1 and beep x1.

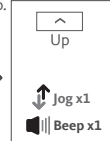
b. Press “**Up**” button until motor jog x1 and beep x1.

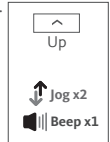
c. Once more, press “**Up**” button until motor jog x2 and beep x1.

Action on Remote Control

Motor Response

a.  **P2**
↓ Jog x1
Beep x1

b.  **Up**
↓ Jog x1
Beep x1

c.  **Up**
↓ Jog x2
Beep x1

*If the motor has no response, it already has a Maximum or Minimum speed.

DECREASE MOTOR SPEED

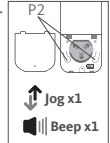
a. Press one “**P2**” button until motor jogs x1 and beeps x1.

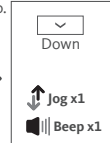
b. Press “**Down**” button until motor jogs x1 and beeps x1.

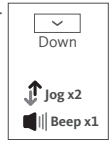
c. Once more, press “**Down**” button until motor jogs x2 and beeps x1.

Action on Remote Control

Motor Response

a.  **P2**
↓ Jog x1
Beep x1

b.  **Down**
↓ Jog x1
Beep x1

c.  **Down**
↓ Jog x2
Beep x1

*If the motor has no response, it already has a Maximum or Minimum speed.

QUICK INDEX

SETTINGS	STEPS
1. Pairing	P1 (hold for 2s) > Stop (hold for 2s)
2. Switch Rotating Direction	Up + Down (hold for 2s)
3. Set Upper/Lower Limits	Upper Limit: Up (hold for 2s) > Up + Stop (hold for 2s) Lower Limit: Down (hold for 2s) > Down + Stop (hold for 2s)
4. Favorite Position	P2 > Stop > Stop
5. Roller/Sheer Mode Switch	Up + Down (hold for 5s) > Stop
6. Adjusting the Limits	Upper: Up + Stop (hold for 5s) > Up or Dn > Up + Stop (hold for 2s) Lower: Dn + Stop (hold for 5s) > Up or Dn > Dn + Stop (hold for 2s)
7. Add/Remove a Remote	P2 (existing) > P2 (existing) > P2 (new)
8. Speed Regulation	Increase Motor Speed: P2 > Up > Up Decrease Motor Speed: P2 > Down > Down

TROUBLESHOOTING

PROBLEM - THE MOTOR HAS NO RESPONSE	
Cause Battery in motor is depleted	Solution Recharge with compatible AC adapter and check connection and positioning of solar panel
Insufficient charging from Solar Panel	Check connection and orientation of solar panel
Remote control battery is discharged or not installed properly	Replace battery or check placement.
Radio interference / shielding	Ensure remote control and the antenna on the motor are positioned away from metal objects
Receiver distance is too far	Move the remote control to a closer position.
Power failure	Check power supply to motor is connected/active.
Incorrect wiring	Check that wiring is connected correctly.

PROBLEM - THE MOTOR BEEPS 10 TIMES WHEN IN USE

Cause Battery voltage is low/ Solar Panel Issue	Solution Recharge with AC adapter or check connection and positioning of solar panel
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PROBLEM - THE MOTOR WILL NOT PROGRAM OR CONNECT

Cause Check if the motor in Sleep Mode	Press the P1 button on the motor for 2 seconds to activate Pairing Mode.
Multiple Motors are paired to the same	Always reserve a channel for programming. To work on a single motor at a time, place all other motors into sleep mode. Press the “P1” button (about 6 sec) on the motor head until motor jogs x2 and beeps x2.

DECLARATIONS

U.S. Radio Frequency FCC Compliance
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, and
(2) This device must accept any interference received, including interference that may cause undesired operation.
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/TV technician for help.
Any Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.
ISED RSS Warning:
This device complies with Innovation, Science and Economic Development Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

CHARGING & BATTERY INDICATORS

INTERNAL RECHARGEABLE BATTERY
During operation, if the motor begins to beep, this is an indicator to let users know the motor power is low and needs to be charged. To charge, plug the micro-USB port on the motor into the 5V/2A charger.



Blinking Red:
Low battery alert



Blinking Green:
Charging in process



Solid Green:
Finished charging

EXTERNAL RECHARGEABLE BATTERY PACK
During operation, if the voltage is detected to be too low, the battery stops running and needs to be recharged. To charge, plug the micro-USB port on the end of the battery pack into the 5V/2A charger.



Solid Red:
Charging in process



Solid Green:
Finished charging

SPECIFICATIONS

Voltage	3V (CR2450)
Radio Frequency	433.92 MHz Bi-directional
Transmitting Power	10 milliwatt
Operating Temperature	14°F to 122°F (-10°C to 50°C)
RF Modulation	FSK
Lock Function	Yes
IP Rating	IP20
Transmission Distance	up to 200m (outdoor)

 Do not dispose of in general waste. Please recycle batteries and damaged electrical products appropriately.

15 CHANNEL REMOTE CONTROL PROGRAMMING AND USERS GUIDE



SAFETY INSTRUCTIONS

- Do not expose motor to humid, damp, or extreme temperature conditions.
- Do not drill into motor.
- Do not cut the antenna. Keep it clear from metal objects.
- Do not allow children to play with this device.
- If the power cable or connector is damaged, do not use
- Ensure the power cable and antenna are clear and protected from moving parts.
- Cable routed through walls should be properly isolated.
- Motor should be mounted in horizontal position only.
- Before installation, remove unnecessary cords and disable equipment not needed for powered operation.

COIN BATTERY WARNING

- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- CR2450 is the compatible battery type.
- The nominal battery voltage is 3.0V.
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above 50°C / 122°F or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- Ensure the batteries are installed correctly according to polarity (+ and -).
- Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

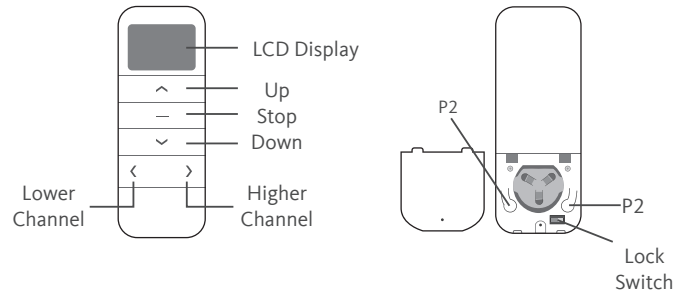
⚠ WARNING

- INGESTION HAZARD:** This product contains a button cell or coin battery.
- DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin cell battery can cause **Internal Chemical Burns** in as little as **2 hours**.
- KEEP** new and used batteries **OUT OF REACH OF CHILDREN**.
- Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.
- CR 2450, 3V

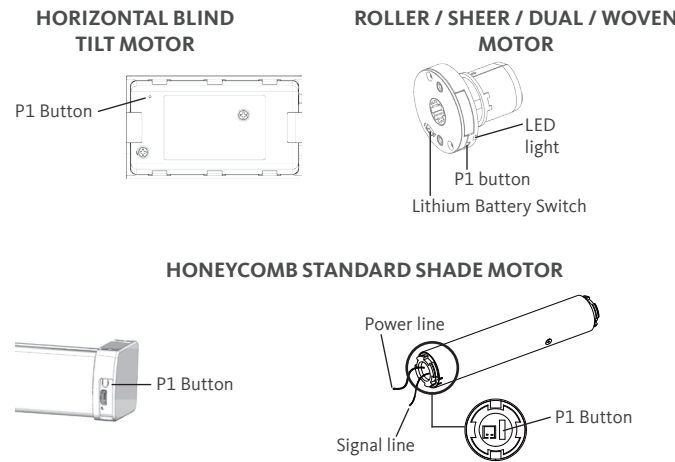
REMOTE CONTROL OVERVIEW

Please read prior to installation and use. Save these instructions for future reference.

BUTTON INSTRUCTIONS

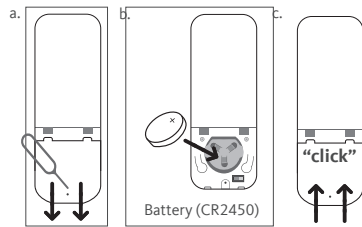


P1 BUTTON LOCATION



REPLACING THE BATTERY

a. Gently insert the included ejector tool into the pinhole opening and apply a small amount of pressure to the cover and slide the cover off.

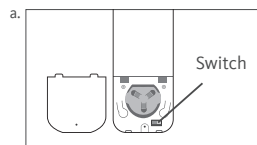


b. Install battery (CR2450) with positive (+) side facing up.

c. Gently slide the cover back until a “click” sound is heard.

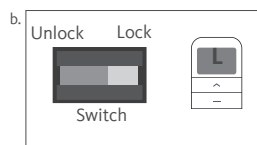
ADVANCED SETTING - DISABLE LIMIT SETTING

a. Remove the cover from the backside of remote, the lock switch is in the right corner.

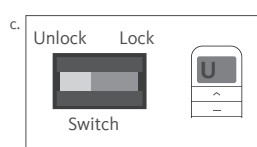


b. Move the switch to the “Lock” position to disable the following commands, remote will show “L” (lock):

- Change Motor Direction
- Setting the Upper and Lower Limit
- Adjust Limit
- Roller Mode or Sheer Mode



c. Move the switch to “Unlock” position to assess all remote functions, remote will show “U” (unlock).

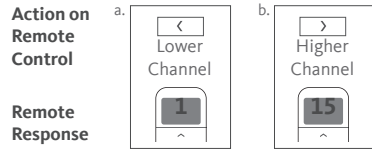


*This advanced feature is intended to be used after all shade programming is completed. User Mode will prevent accidental or unintended changing of limits.

CHANNEL OPTIONS

SELECT A CHANNEL

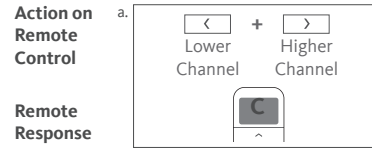
a. Press “<” button on the remote to select a lower channel.



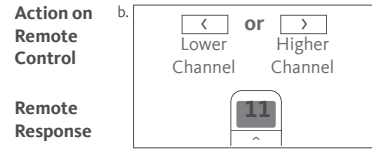
b. Press “>” button on the remote to select a higher channel.

HIDE UNUSED CHANNELS

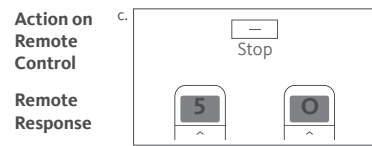
a. Press and Hold (about 3 sec) “<” and “>” buttons simultaneously until remote control displays “C” (channel).



b. Press “<” or “>” button to select required quantity of channel (between 1 to 15).



c. Press “Stop” button to confirm selection (the example shows a 5-channel selection). The LED will display “O” (OK) once to confirm selection.



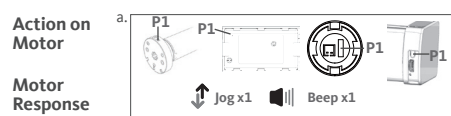
GETTING STARTED

It is important to confirm that the motor is awake and ready to receive programming. To do this, press “P1” button on the motor less than 1 sec, to activate the motor from Sleep Mode.

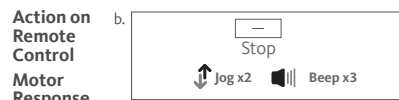
1. PAIR / UNPAIR REMOTE CONTROL

NOTE: Honeycomb and Horizontal Blind Motors DO NOT BEEP.

a. Press “P1” button (about 2 sec) on the motor head until motor jogs x1 and beeps x1*.



b. In the next 10 secs, press and hold “Stop” button on the remote control until motor jogs x2 and beeps x3*.

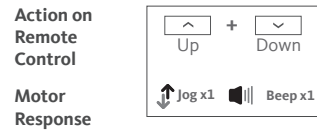


* Repeat the same procedure to unpair remote control.

2. CHANGE MOTOR DIRECTION (IF NECESSARY)

This operation is only valid when no limits have been set. If the motor has the upper and lower limits set, you can only switch direction by pressing “P1” button (about 10 sec) on the motor jog x3 and beep x3.

Press “Up” or “Down” button to check if the shade moves in the desired direction.

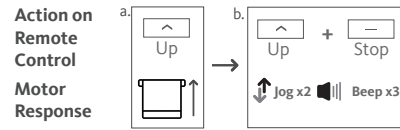


If you need to reverse the direction, press and hold (about 2 sec) “Up” and “Down” buttons simultaneously until motor jogs x1 and beeps x1.

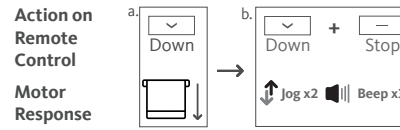
3. SETTING THE UPPER AND LOWER LIMITS

SET UPPER LIMIT

a. Press “Up” button to raise the shade, then press “Stop” button when it is in the desired upper limit.

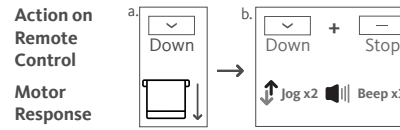


b. Press and hold (about 5 sec) “Up” and “Stop” buttons simultaneously until motor jogs x2 and beeps x3.



SET LOWER LIMIT

a. Press “Down” button to lower the shade, then press “Stop” button when it is in the desired lower limit.



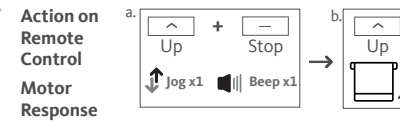
b. Press and hold (about 5 sec) “Down” and “Stop” buttons simultaneously until motor jogs x2 and beeps x3.

*If you exit the limit setting status before you finish the limit settings, the motor will take the previous existing limits.

4. ADJUST LIMITS

ADJUST THE UPPER LIMIT

a. Press and hold (about 5 sec) “Up” and “Stop” buttons simultaneously until motor jogs x1 and beeps x1.



b. Use “Up” button to raise the shade to the desired highest position, and use “Up” or “Down” button to do the final adjustment if necessary.

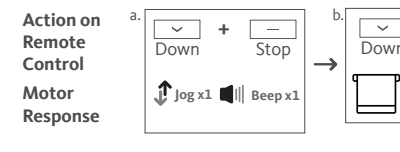


c. Press and hold (about 5 sec) “Up” and “Stop” buttons simultaneously until motor jogs x2 and beeps x3.



ADJUST THE LOWER LIMIT

a. Press and hold (about 5 sec) “Down” and “Stop” buttons simultaneously until motor jogs x1 and beeps x1.



b. Use “Down” button to lower the shade to the desired lowest position, and use “Up” or “Down” button to do the final adjustment if necessary.



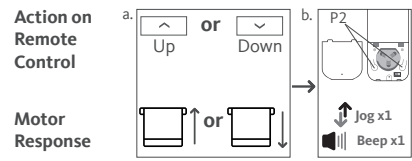
c. Press and hold (about 5 sec) “Down” and “Stop” buttons simultaneously until motor jogs x2 and beeps x3.



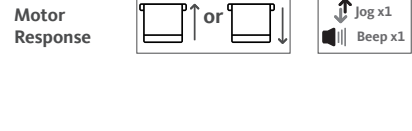
5. FAVORITE POSITION

SET A FAVORITE POSITION

a. Use “Up” or “Down” button to move the shade to desired Favorite position.



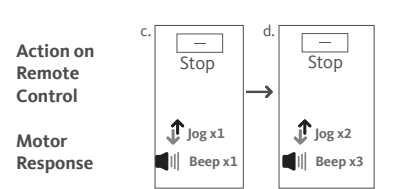
b. Press and hold one “P2” button on the back of remote control until motor jogs x1 and beeps x1.



c. Press and hold “Stop” button until motor jogs x1 and beeps x1.

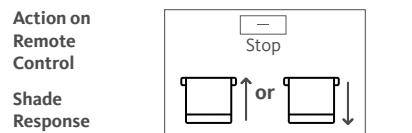


d. Once more, press “Stop” button until motor jogs x2 and beeps x3.



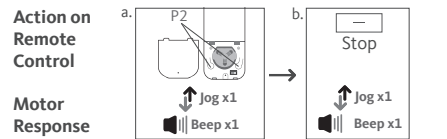
USING A FAVORITE POSITION

Press and hold (about 2 sec) “Stop” button, motor will move to Favorite position.

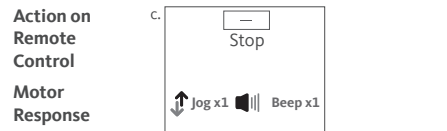


REMOVE A FAVORITE POSITION

a. Press one “P2” button until motor jogs and beeps x1.



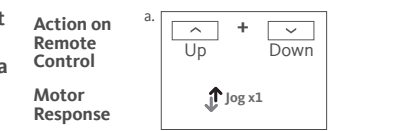
b. Press (about 2 sec) “Stop” button until motor jogs and beeps x1.



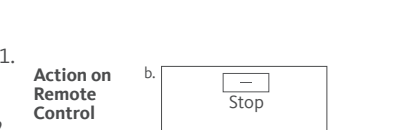
c. Once more, press “Stop” button until motor jogs x1 and long beep x1.

6. HOW TO TOGGLE FROM ROLLER MODE / SHEER MODE

ROLLER SHADE MODE - Default mode, allows for continuous raising/lowering of shade after a short press



a. Press and hold (about 5 sec) “Up” and “Down” buttons simultaneously until motor jogs x1.



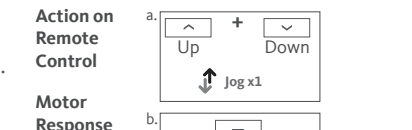
b. Press and hold (about 2 sec) “Stop” button until motor jogs x2 and beeps x3.



For precise control and adjustment, use Sheer Shade Mode.

SHEER SHADE MODE - Allows for slight adjustment after a short press and raising/ lowering of shade after a longer press

a. Press and hold (about 5 sec) “Up” and “Down” buttons simultaneously until motor jog x1.



b. Press and hold (about 2 sec) “Stop” button until motor jog x1 and beep x1.



Continue on to step 7.