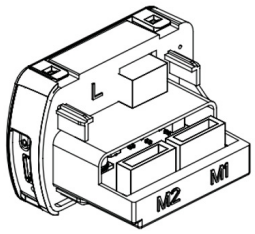
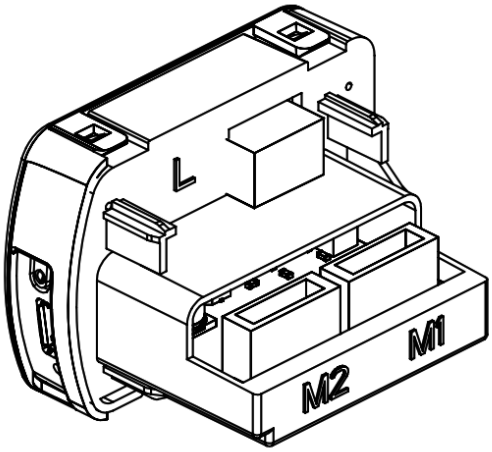
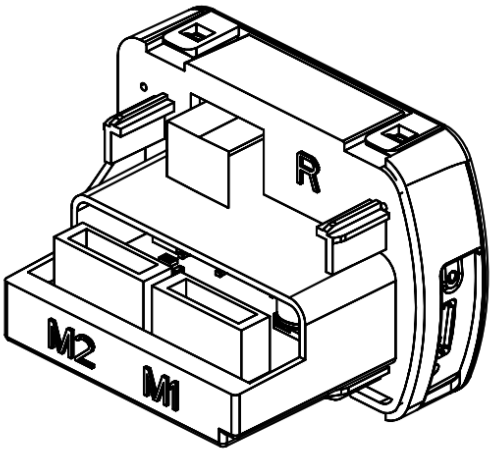
Manuals+ — User Manuals Simplified.



Turnils North America AMPTDBUCL RF Receiver Controller Programming User Guide

AMPTDBU RF Receiver
User Guide





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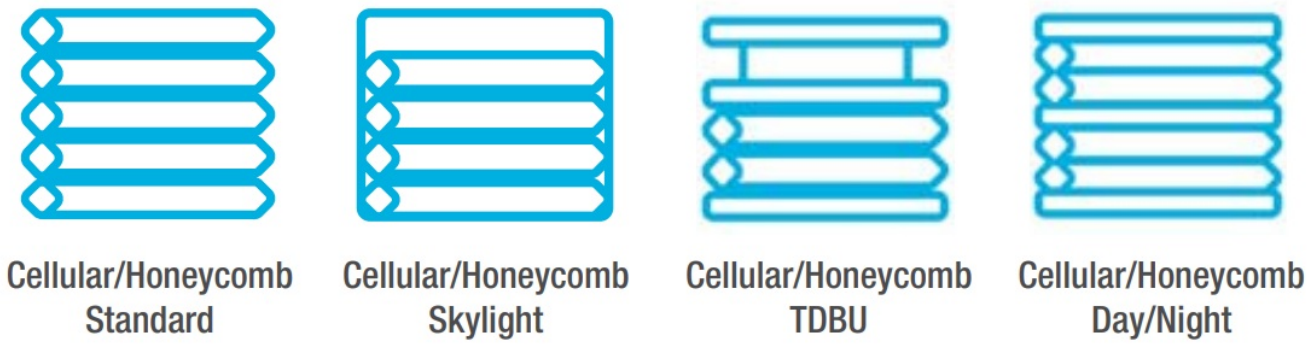
Fields of Application



Specifications

Working temperature: -10º C ~ +50º C
Input Voltage: USB 5V 1A / USB 5V 2A
Radio Frequency: 433.925 MHz
Maximum Running Time: 6 minutes

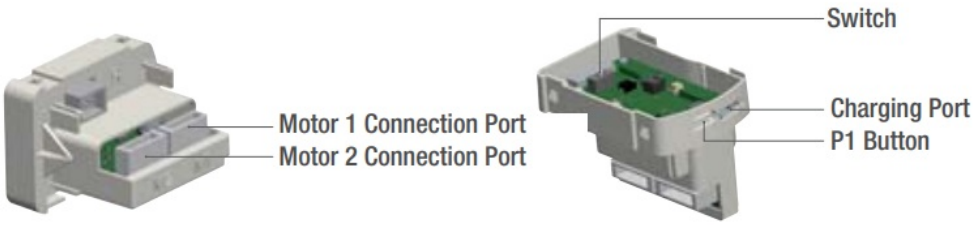
Attention

Never drop, knock, drill or submerge the motor.
Read all safety instructions before installation.
Incorrect installation can lead to serious injury and will void the manufacturer’s liability and warranty.

Safety Instructions

1. Do not expose the motor to humid, damp, or extreme temperature conditions.
2. Do not drill into the motor.
3. Do not cut the antenna. Keep it clear from metal objects.
4. Do not allow children to play with this device.
5. If the power cable or connector is damaged, do not use it.
6. Ensure the correct crown and drive adaptor are used.
7. Ensure the power cable and aerial are clear and protected from moving parts.
8. Cable routed through walls should be properly isolated.
9. The motor is to be mounted in a horizontal position only.
10. Before installation, remove unnecessary cords and disable equipment not needed for powered operation.
11. Installation and programming should be performed by a qualified professional. Use or modification outside the scope of these instructions may void the warranty.

System Overview



Switch Functions

1. When the Switch is at Location 1, it is Cellular/Honeycomb TDBU and Cellular/Honeycomb Day/Night Shades working mode.
2. When the Switch moves to Location ON, it is Cellular/Honeycomb Standard and Cellular/Honeycomb Skylight working mode.
3. The Factory default mode is set at Location 1.

P1 Button Instructions

1. **Test Motor (Wakes and Runs)**

   Happening as you press for 1 second

	Press P1 Less than 1 sec.

2. **Activate Pairing Mode**

   Happening as you press for 2 seconds

	Press P1 Approx. 2 sec.	Until Shade:		Jog x1

3. **Sleep Mode**

   Happening as you press for 6 seconds

	Press P1 Approx. 6 sec.	Until Shade:		Jog x2

4. **Reverse Motor 1 with Motor 2**

Happening as you press for 10 seconds

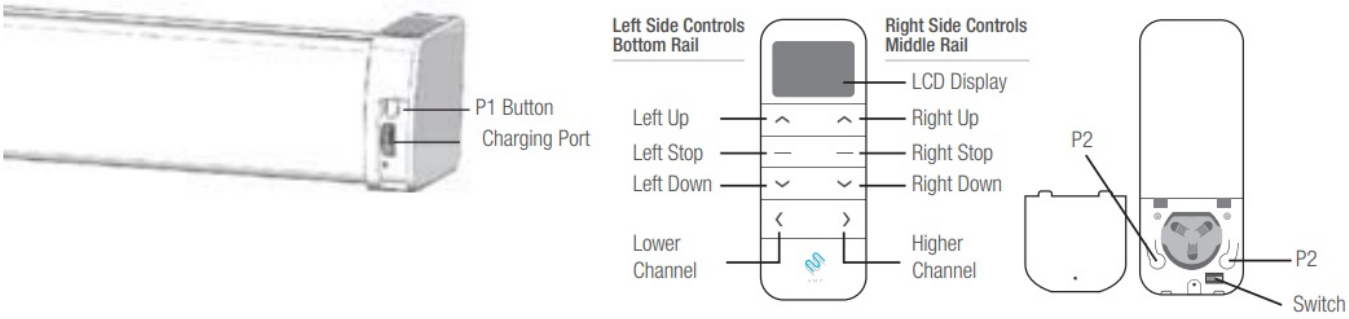
10	Press P1 Approx. 10 sec.	Until Shade:		Jog x3

5. **Reset T o Factory Settings**

Happening as you press for 14 seconds

14	Press P1 Approx. 14 sec.	Until Shade:		Jog x4

Button Instructions



Rechargeable Battery

Blinking red:
Low battery alert

Blinking green:
Charging in process

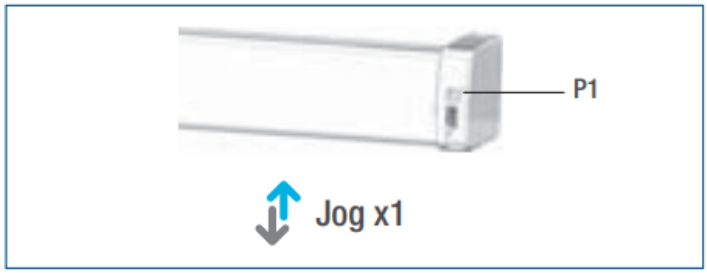
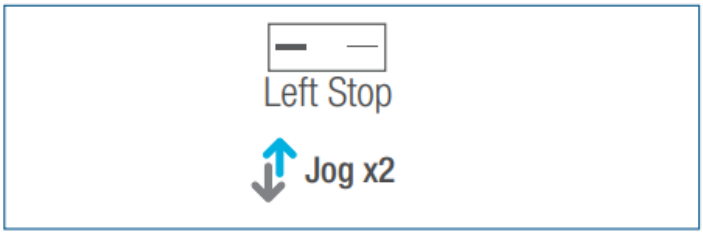
Solid green:
Battery has finished charging

⚠ Essential Settings

The steps in factory mode must be completed to ensure proper operation.
* All setup needs to be done using the LEFT SIDE of the remote.

Pair / Unpair Remote Control

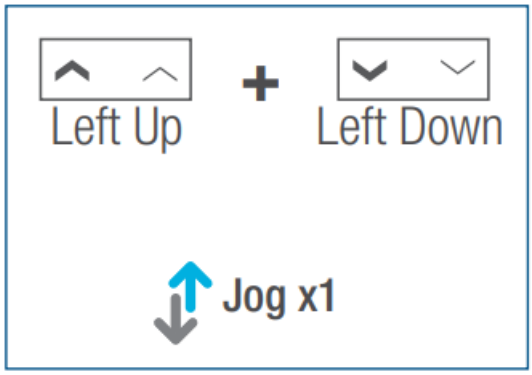
a. Press the “P1” button (about 2 sec) on the End Cap as shown until motor jog x1.
b. In the next 10 secs, press and hold the Left “Stop” button on the remote control until the motor jog x2.
* Repeat the same procedure to the unpair the remote control.

Action on Endcap Motor Response	a. 
Action on Remote Control Motor Response	b. 

Change Motor Direction (if necessary)

Press the Left “Up” or Left “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) the Left “Up” and “Down” buttons simultaneously until the motor jog x1.

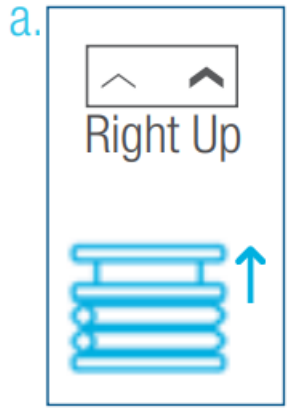
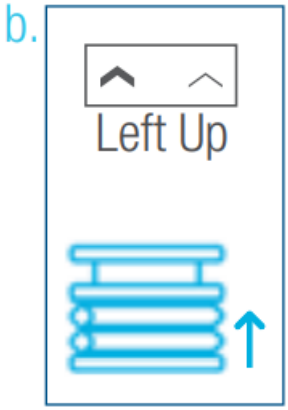
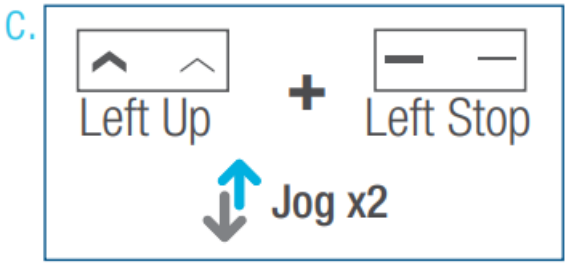
*The operation is only valid when there are no limits.

Action on Remote Control Motor Response	

Setting the Upper and Lower Limits

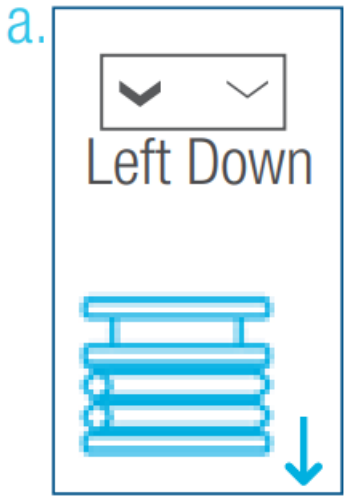
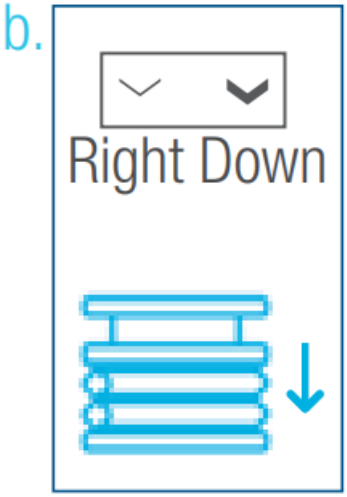
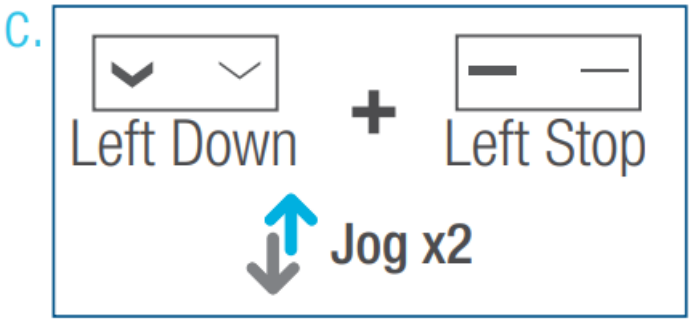
Set Upper Limit

a. Press the Right “Up” button to raise the Middle Rail, then press the Right “Stop” button when it is in the desired upper limit.
b. Press the Left “Up” button to raise the Bottom Rail, then press the Left “Stop” button when it is in the desired upper limit.
c. Press and hold (about 2 sec) Left “Up” and Left “Stop” buttons simultaneously until the motor jog x2.

Action on Remote Control Middle Rail Response	
Action on Remote Control Bottom Rail Response	
Action on Remote Control Motor Response	

Set Lower Limit

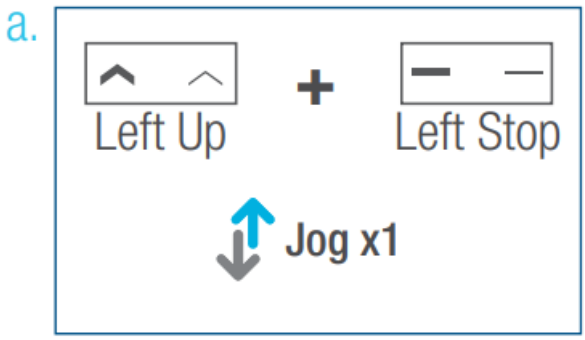
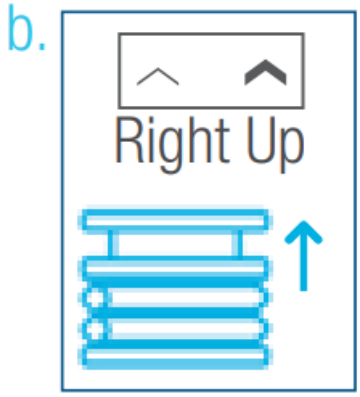
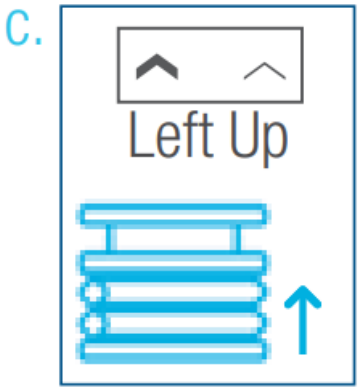
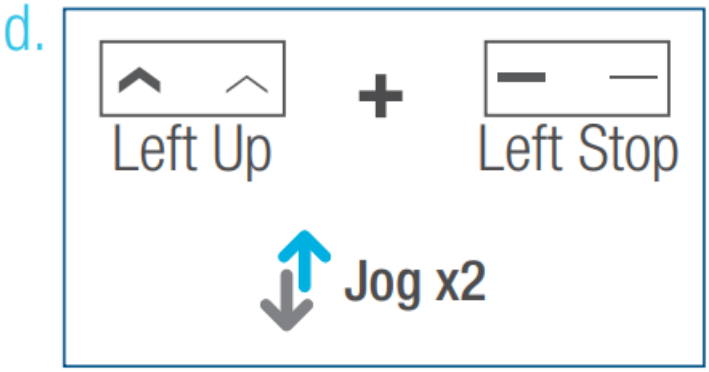
a. Press the Left “Down” button to lower the Bottom Rail, then press the Left “Stop” button when it is in the desired lower limit.
b. Press the Right “Down” button to lower the Middle Rail, then press the Right “Stop” button when it is in the desired lower limit.
c. Press and hold (about 2 sec) Left “Down” and Left “Stop” buttons simultaneously until the motor jog x2.
*If you exit the limit setting status before you finish the limit settings, the motor will take the previous existing limits.

Action on Remote Control Bottom Rail Response	
Action on Remote Control Middle Rail Response	
Action on Remote Control Motor Response	

Adjust Limits

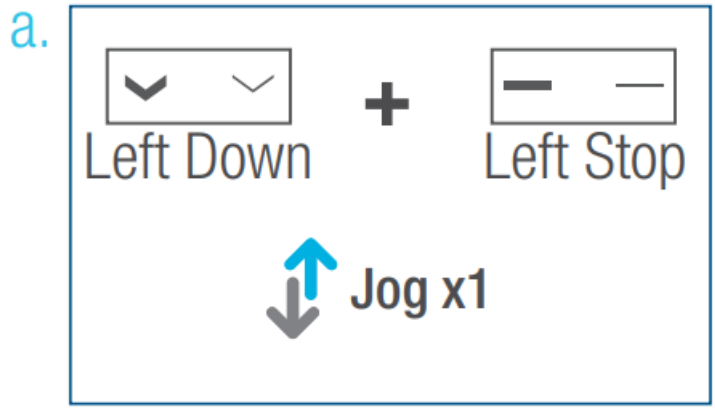
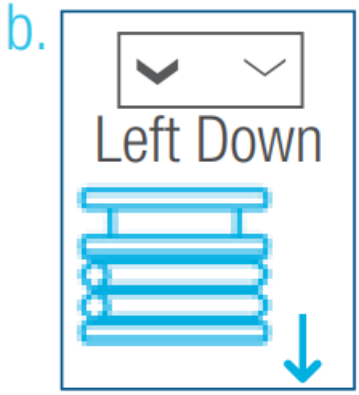
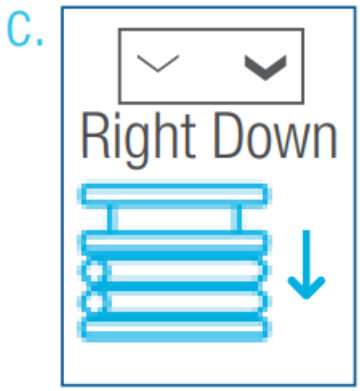
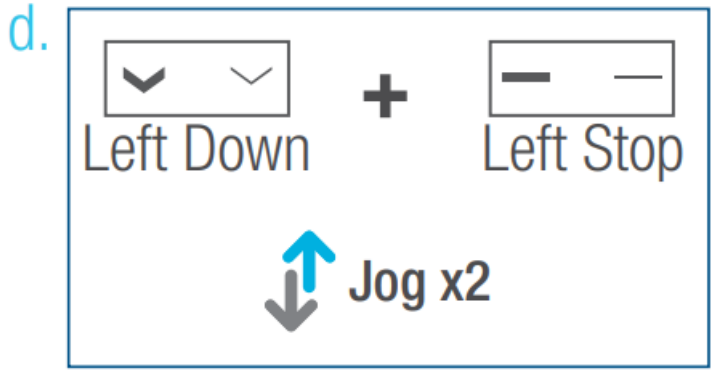
Adjust the Upper Limit

a. Press and hold (about 5 sec) Left “Up” and Left “Stop” buttons simultaneously until motor jog x1.
b. Press the Right “Up” button to raise the Middle Rail, then press the Right “Stop” button when it is in the new desired upper limit.
c. Press the Left “Up” button to raise the Bottom Rail, then press the Left “Stop” button when it is in the new desired upper limit.
d. Press and hold (about 2 sec) Left “Up” and Left “Stop” buttons simultaneously until the motor jog x2.

Action on Remote Control Motor Response	
Action on Remote Control Middle Rail Response	
Action on Remote Control Bottom Rail Response	
Action on Remote Control Motor Response	

Adjust the Lower Limit

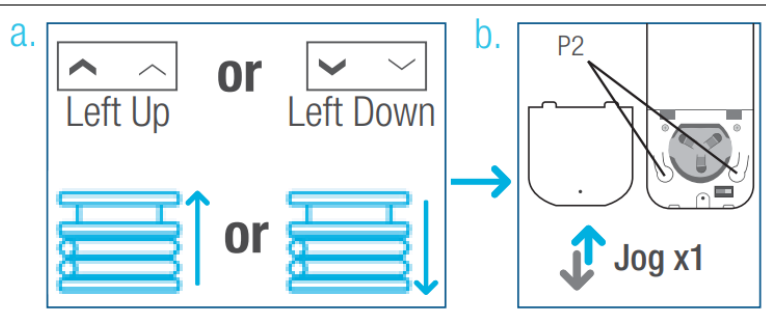
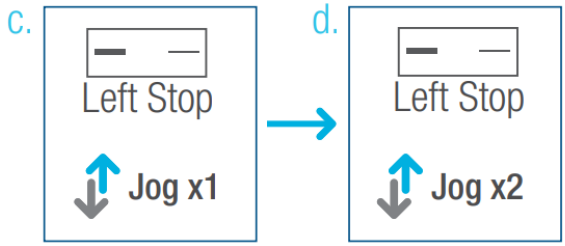
a. Press and hold (about 5 sec) Left “Down” and Left “Stop” buttons simultaneously until motor jog x1.
b. Use the Left “Down” button to lower the Bottom Rail then press the Left “Stop” button when it is in the new desired lower limit.
c. Press the Right “Down” button to lower the Middle Rail, then press the Right “Stop” button when it is in the new desired lower limit.
d. Press and hold (about 2 sec) Left “Down” and Left “Stop buttons simultaneously until the motor jog x2.

Action on Remote Control Motor Response	
Action on Remote Control Bottom Rail Response	
Action on Remote Control Middle Rail Response	
Action on Remote Control Motor Response	

Favorite Position

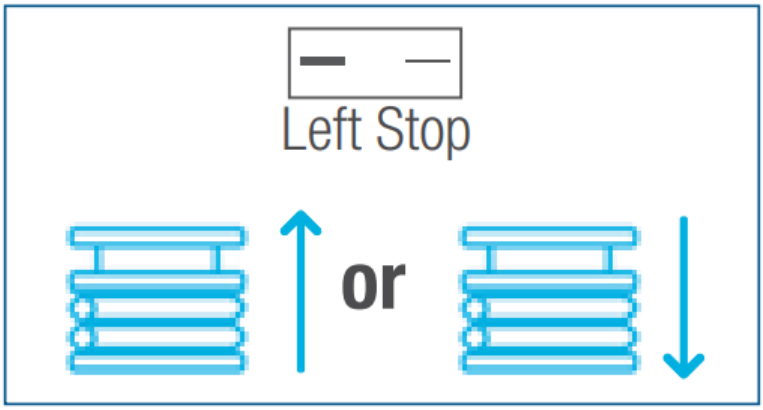
Set Favorite Position

Use the Left “Up” or Left “Down” button to move the shade to desired Favorite position.
Press one “P2” button on the back of the remote control until the motor jog x1.
c. Press and hold the Left “Stop” button until the motor jog x1.
d. Once more, press and hold (about 2 sec) the Left “Stop” button until the motor jog x2.

Action on Remote Control Motor Response	
Action on Remote Control Motor Response	

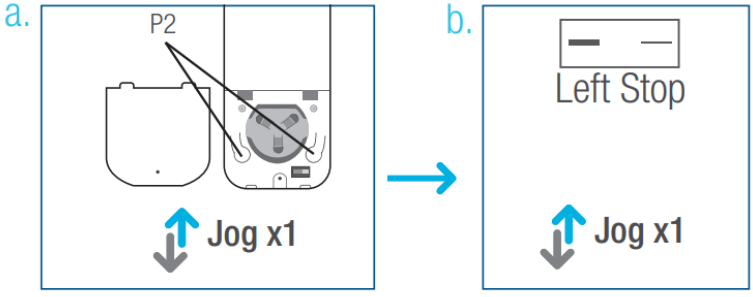
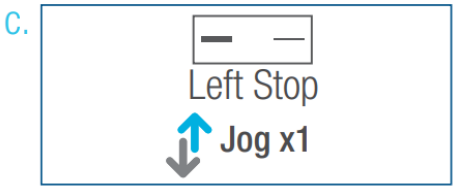
Send Shade to Favorite Position

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

Action on Remote Control Shade Response	

Delete Favorite Position

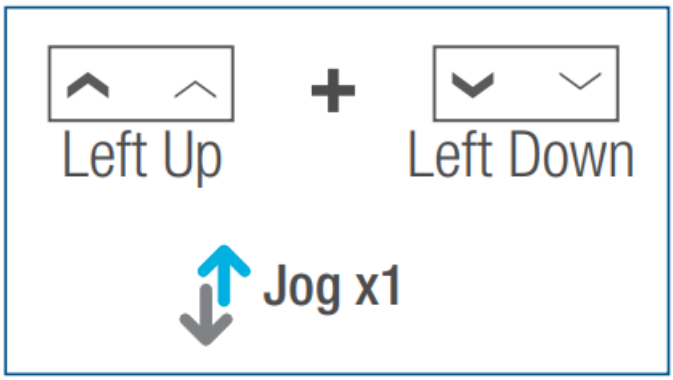
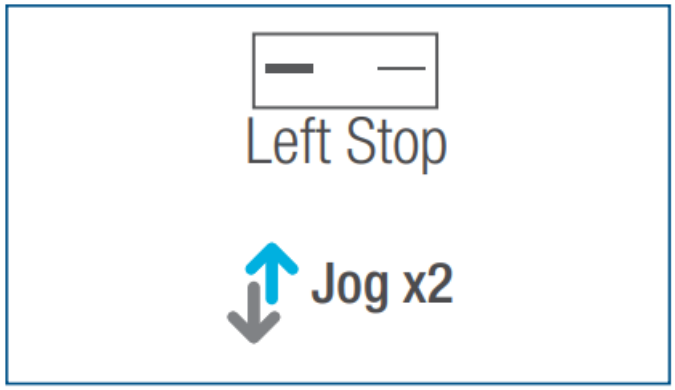
Press one “P2” button until the motor jog.
Press and hold the Left “Stop” button until the motor jog.
Once more, press and hold the Left “Stop” button until the motor jog x1.

Action on Remote Control Motor Response	
Action on Remote Control Motor Response	

Roller Mode and Sheer Mode

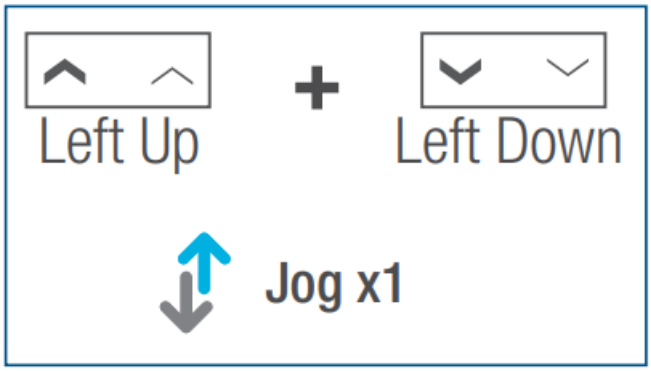
Roller Shade Mode – continue movement after a short press – Default Mode

a. Press and hold (about 5 sec) Left “Up” and Left “Down” buttons simultaneously until motor jog x1.
b. Press and hold (about 2 sec) the Left “Stop” button until motor jog x2.

Action on Remote Control Motor Response	a. 
Action on Remote Control Motor Response	b. 

Sheer Shade Mode – jog movement after a short press (continue movement after a long press)

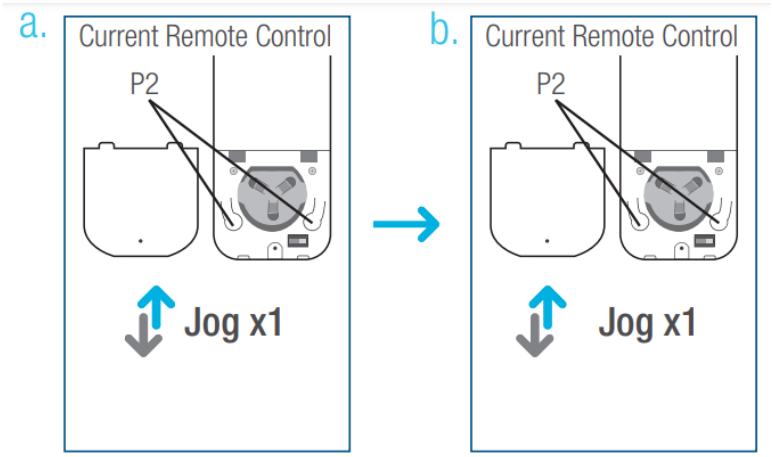
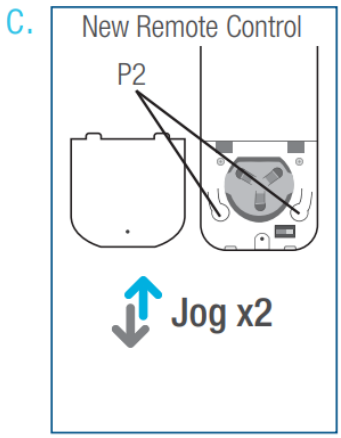
a. Press and hold (about 5 sec) Left “Up” and Left “Down” buttons simultaneously until motor jog x1.
b. Press and hold (about 2 sec) the Left “Stop” button until motor jog x1.

Action on Remote Control Motor Response	a. 
Action on Remote Control Motor Response	b.

Add or Remove Additional Remote

Using Current Remote Control

On the current remote control, press one “P2” button until the motor jog x1.
Once more, on the current remote control, press one “P2” button until the motor jog x1.
c. On the New remote control, press one “P2” button until the motor jog x2.
*Repeat the same procedure to remove the additional remote control.

Action on Remote Control Motor Response	
Action on Remote Control Motor Response	

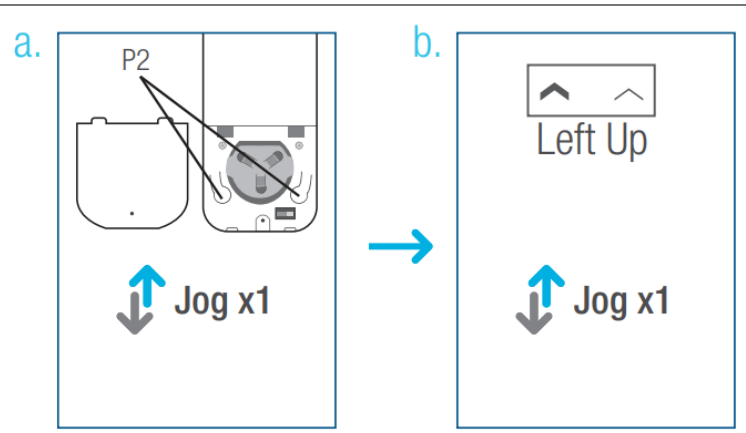
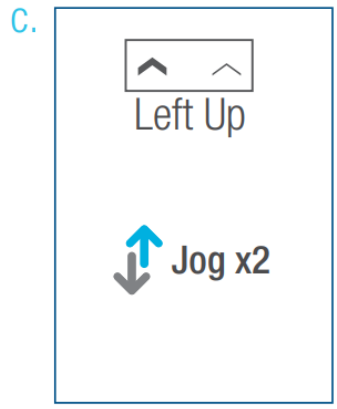
New Remote Control

Follow instructions under section 1.
Pair / Unpair Remote Control

Adjust Motor Speed

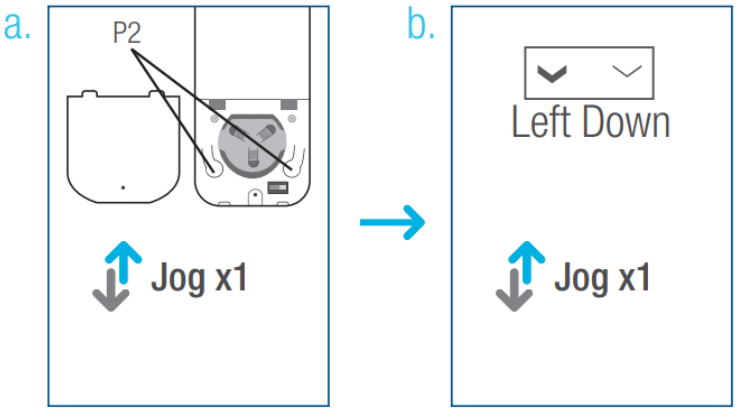
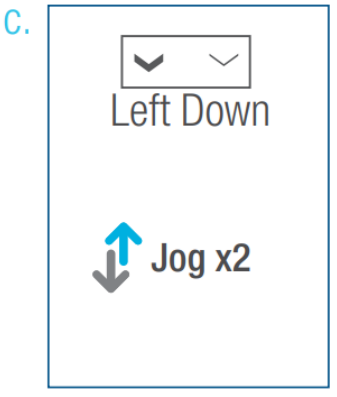
Acceleration Speed

a. Press one “P2” button until motor jog x1.
b. Press the Left “Up” button until the motor jog x1.
c. Once more, press the Left “Up” button until the motor jog x2.

Action on Remote Control Motor Response	
Action on Remote Control Motor Response	

Declaration Speed

a. Press one “P2” button until motor jog x1.
b. Press the Left “Down” button until the motor jog x1.
c. Once more, press the Left “Down” button until the motor jog x2.
*If the motor has no response, it already has a Maximum or Minimum speed.

Action on Remote Control Motor Response	
Action on Remote Control Motor Response	

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 licence-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.

Quick Index

Settings	**Steps**
1 Pairing	P1 (hold down for 2s) > Stop (hold down for 2s)
2 Switch Rotating Direction	Up + Down (hold down for 2s)
3 Setting Upper & Lower Limits	Upper Limit: Up (hold down for 2s) > Up + Stop (hold down for 2s) Lower Limit: Down (hold down for 2s) > Down + Stop (hold down for 2s)
4 Add / Remove Favorite Position	P2 > Stop > Stop
5 Roller Mode & Sheer Mode Switch	Up + Down (hold down for 5s) > Stop
6 Adjust Limits	Upper Limit: Up + Stop (hold down for 5s) > Up or Down > Up + Stop (hold down for 2s) Lower Limit: Down + Stop (hold down for 5s) > Up or Down > Down + Stop (hold down for 2s)
7 Pair / Unpair Additional Emitter	P2 (existing) > P2 (existing) > P2 (new)
8 Speed Regulation	Acceleration: P2 > Up > Up Deceleration: P2 > Down > Down

Troubleshooting

Issues	Possible Causes	Solution
The motor is not responding	External battery pack is depleted	Recharge with compatible AC adaptor and check connection and positioning of solar PV panel
	Insufficient charging from Solar PV Panel	Check connection and orientation of solar PV panel
	The remote control battery is discharged	Replace battery
	The battery is inserted incorrectly into a remote control	Check battery polarity
	Radio interference/shielding	Ensure the remote control and the antenna on the motor are positioned away from metal objects
	The receiver is far away from the Remote Control	Move remote control to a closer position
	Power failure	Check the power supply to the motor is connected and active
	Incorrect wiring	Check that wiring is connected correctly (refer to motor installation instructions)
Cannot program a single motor (multiple motors respond)	Multiple motors are paired to the same channel.	Always reserve an individual channel for programming functions
		SYSTEM BEST PRACTICE – Provide an extra 15 channel remote in your multi-motor projects that provide individual control for each motor for programming purposes
		Place all other motors into sleep mode (ref to P1 button instructions)

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

Please scan the QR code to see more AMP™ product information

Documents / Resources

	Turnils North America AMPTDBUCL RF Receiver Controller Programming [pdf] User Guide AMPTDBUCL, 2AU29AMPTDBUCL, AMPTDBUCL Receiver Controller Programming, Controller Programming

Manuals+,