



Automate Li-ion 3.0 35mm Motor Instruction Manual

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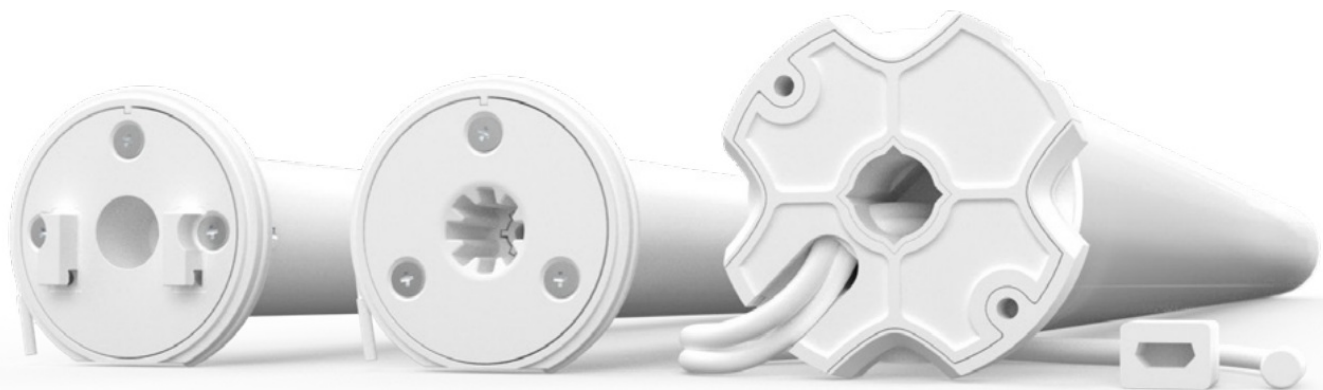
AUTOMATE™

Li-ion 3.0 35mm Motor
Instruction Manual

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Automate Li-ion 3.0 35mm Motor



SOFT STOP



ELECTRONIC
LIMIT



SELECTABLE
SPEED



433 MHZ
BI-DIRECTIONAL



FAVORITE
POSITION



BATTERY CHECK



USB CHARGE
(Only for Li-ion Motor)



SOLAR OPTION



LEVEL CONTROL

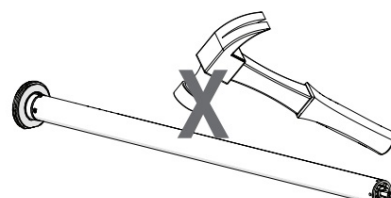
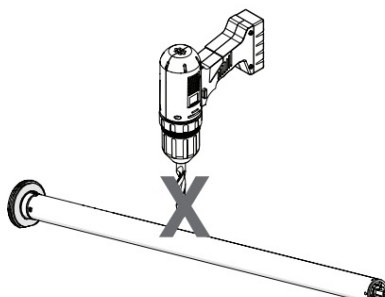
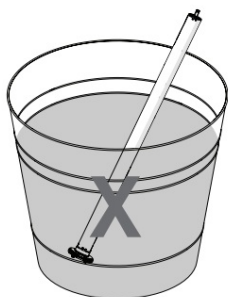


BATTERY
POWERED

SAFETY INSTRUCTIONS

WARNING: Important safety instructions to be read before installation.

Incorrect installation can lead to serious injury and will void manufacturer's liability and warranty.



WARNING: Important safety instructions to be read before installation and use.

It is important for the safety of persons to follow the enclosed instructions. Save these instructions for future reference.

WARNING: Incorrect installation or use can lead to serious injury and will void manufacturer's liability and warranty.

- Read and follow all installation and safety instructions.
 - This manual is also available on the website.
 - Do not expose to water, moisture, humid and damp environments or extreme temperatures.
 - Use or modification outside the scope of this instruction manual will void warranty.
 - This appliance can be used by children aged 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning the use of the appliance in a safe way and understand the hazards involved.
- Children should not play with the appliance. Cleaning and user maintenance should not be performed by children without supervision.

- Do not allow children to play with fixed controls. Keep appliance and remote controls away from children.
- Assembly, installation and programming must be performed by a suitably qualified installer.
- For use with motorized shading devices.
- Frequently inspect the installation for improper operation, signs of wear, imbalance or damage to cables or springs. Do not use if repair or adjustment is necessary.
- The appliance must be disconnected from its power source during cleaning, maintenance or when replacing parts. Maintenance and parts replacement should be performed by a suitably qualified installer/technician.
- The A-weighted emission sound pressure level of the appliance is less than or equal to 70dB(A).
- The appliance is for indoor use only.
- Disconnect the appliance from power or switch off automatic controls when maintenance, such as window cleaning, is being carried out in the vicinity.
- The appliance must be supplied only the safe, extra-low voltage corresponding to the marking on the appliance.
- Keep clear of the appliance when in operation.
- There are no user serviceable parts or batteries inside the appliance.
- Remote batteries should be replaced with the correctly specified type only.
- The mass and dimensions of the driven part must be compatible with the rated torque and rated operating time of the appliance.
- The driven part must be compatible with the rated torque and operating time of the appliance as follows:

For 0.5Nm motor series (MT01-1320-069001 and similar): Rated torque of 0.5Nm, rated operating time of 12 minutes and minimum tube diameter of $\varnothing 20\text{mm}$.

For 1.1Nm motor series (MT01-1325-069002, MT01-1225-069002 and similar): Rated torque of 1.1Nm, rated operating time of 12 minutes and minimum tube diameter of $\varnothing 25\text{mm}$.

For 2.0Nm motor series (MT01-1328-069001, MT01-1228-069002 and similar): Rated torque of 2.0Nm, rated operating time of 12 minutes and minimum tube diameter of $\varnothing 28\text{mm}$.

- Fixed controls have to be clearly visible after installation.
- The appliance is intended to be installed at a height of at least 2.5m above the floor or any other accessible level surface.
- Before installing the appliance, remove any unnecessary cords or components and disable any equipment not needed for powered operation.

COMPLIANCE STATEMENT

This device complies with Part 15 of the FCC Rules / Industry Canada licence-exempt RSS standard(s). 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.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

To satisfy FCC / IC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.

To ensure compliance, operations at closer than this distance is not recommended.

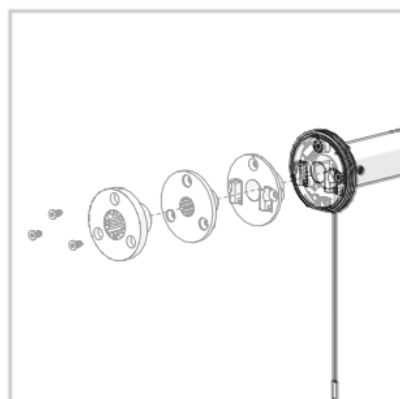
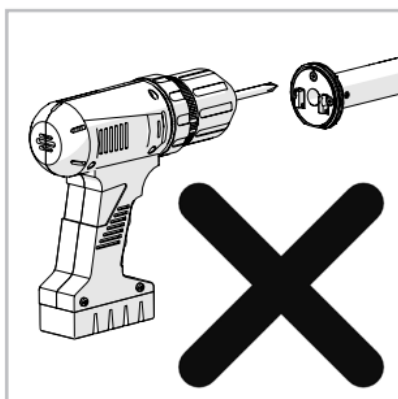
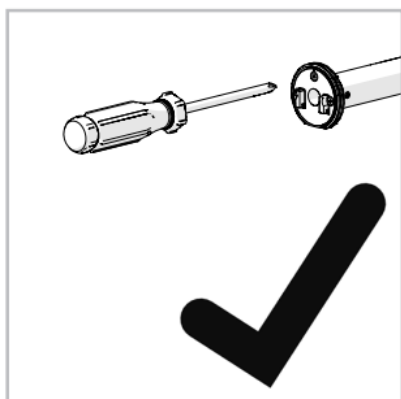


Do not dispose of in general waste. Please recycle batteries and damaged electrical products appropriately.

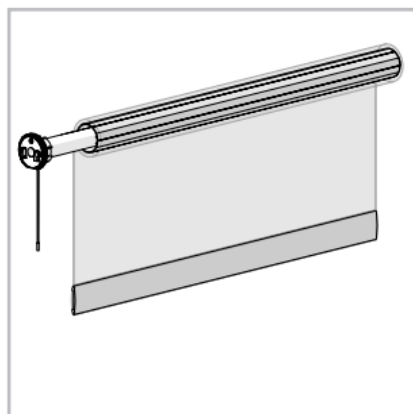
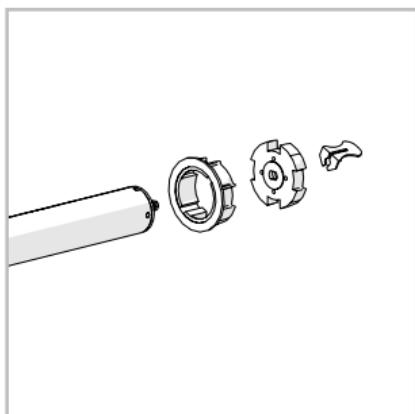


ASSEMBLY

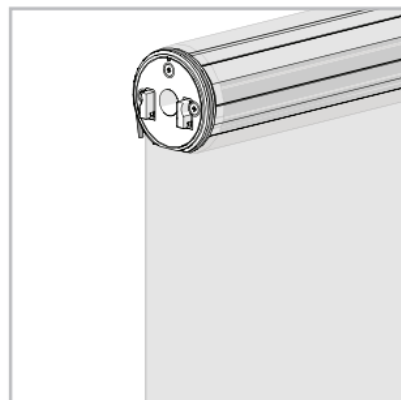
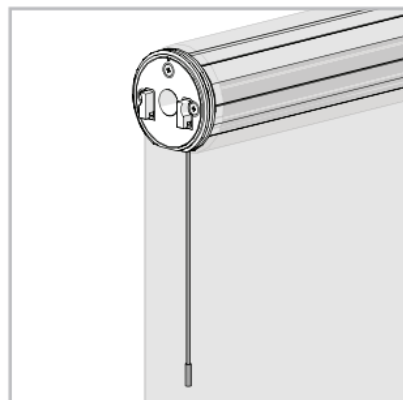
ZERO HEAD ADAPTER



GENERIC CROWN, DRIVE & TUBE ASSEMBLY

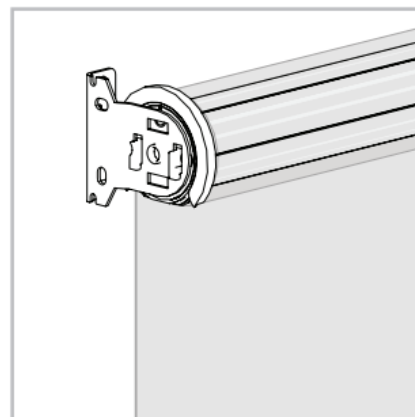
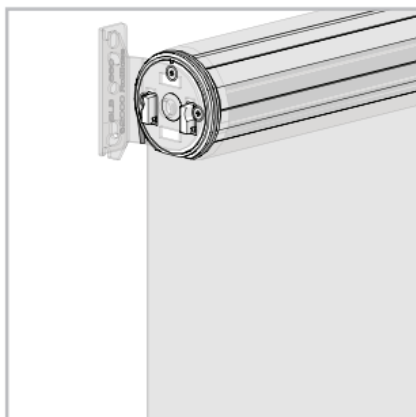
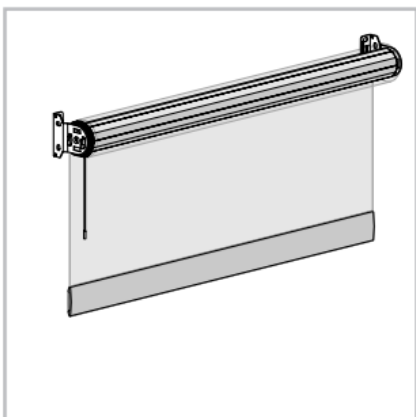
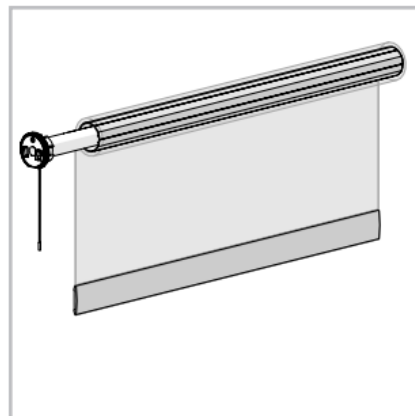
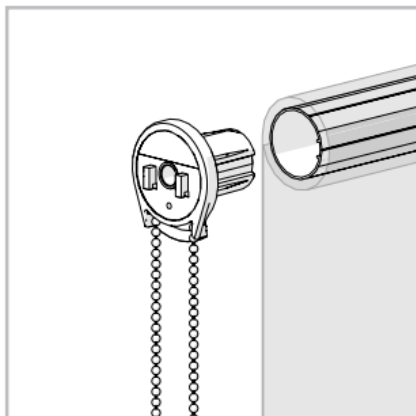
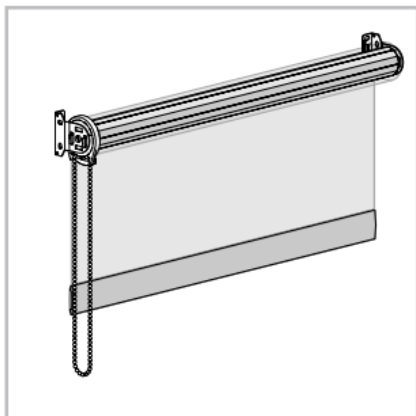


ZERO HEAD ANTENNA WRAP



RETROFIT INSTALLATION

(1.1Nm & 2.0Nm MOTOR ONLY)

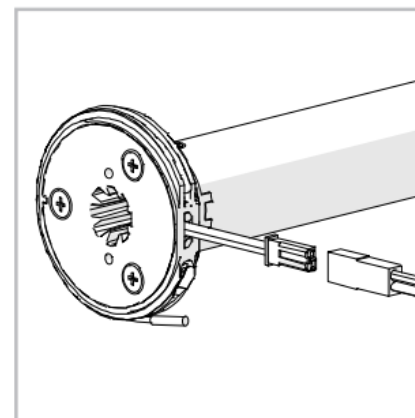
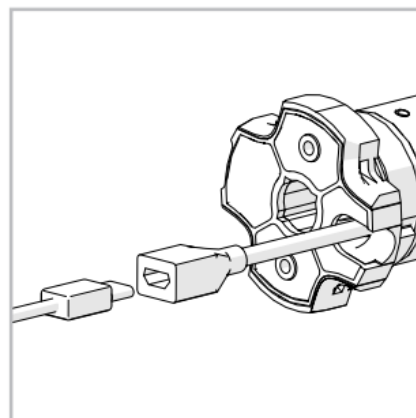
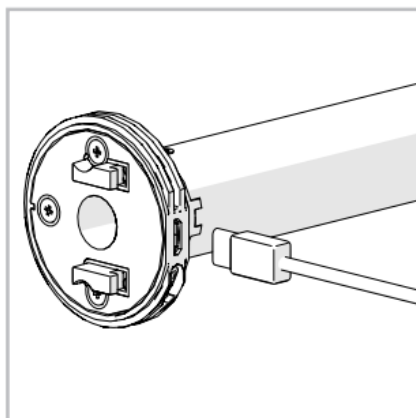


CHARGING/POWER SUPPLY

(LI-ION 1.1Nm & 2.0Nm ONLY)

(LI-ION 3.0Nm & 10.0Nm ONLY)

(DC 1.1Nm & 2.0Nm ONLY)



P1 BUTTON FUNCTIONS

4.1 Motor state test

This table describes the function of a short P1 Button press/release (<2 seconds) depending on current motor configuration.

P1 Presses	Condition	Function Achieved	Visual Feedback	Audible Feedback	Function Described
Short Press	If limit is NOT set	None	No Action	None	No Action
	If limits are set	Operational control of motor, run to limit. Stop if running	Motor Runs	None	Operational control of motor after pairing and limit setting is completed first time
	If motor is in "Sleep Mode" & limits are set	Wake and control.	Motor wakes and runs in a direction	None	Motor is restored from Sleep Mode and RF control is active

4.2 Motor configuration options

The P1 Button is utilized to administer motor configurations as described below.

Hold P1 button on motor head.

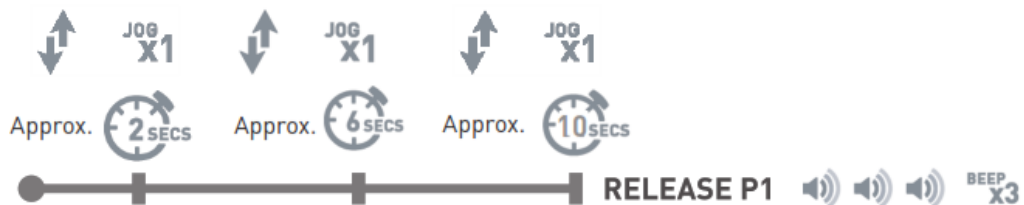
Activate Pairing Mode



Sleep Mode

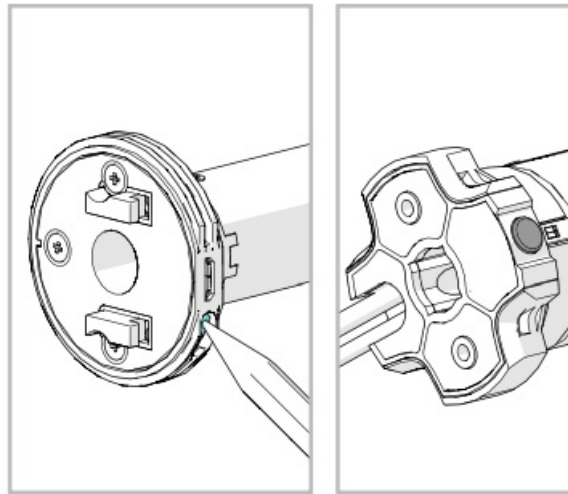


Reverse Direction



Reset To Factory Settings





P1 button on motor head.

INITIAL SET UP

5.1 Pair motor with controller

Select channel on controller.	Hold P1 button on motor head.	Hold STOP c

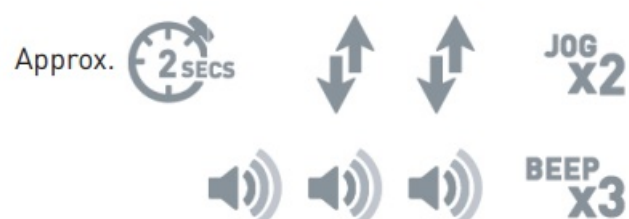
IMPORTANT


Consult user manual for your controller for information on selecting channel.

Motor Response



Motor Response



 Motor is now in step mode and ready for setting limits

5.2 Check motor direction

To check travel direction of shade, press UP or DOWN on controller.

To reverse shade direction, hold bo
DOWN. Until the motor responds.



Quick Press = Step

Long Press = Continuous Travel

Motor Response



⚠ IMPORTANT

Damage to shade may occur when operating motor prior to setting limits. Attention should be given.

⚠ IMPORTANT

Reversing motor direction using this method is only possible during initial set-up

5.3 Set Limits

⚠ IMPORTANT


Cycle shade up and down prior to setting limits to settle fabric

Move shade to the desired highest or lowest position by pressing the UP or DOWN buttons on controller.



To save upper limit, hold UP and STOP.



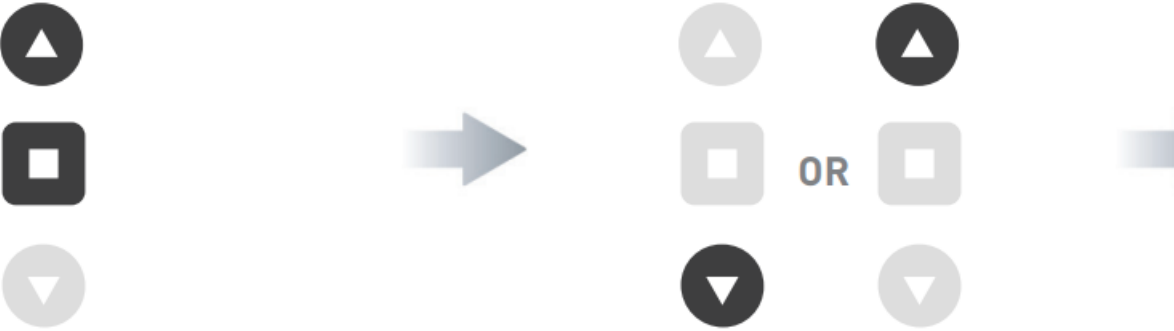
Move shade to the desired highest or lowest position by pressing the UP or DOWN buttons on controller.	To save lower limit, hold DOWN
	

Motor Response



⚠ IMPORTANT
After setting limits, motor will automatically exit from initial set-up mode.

ADJUSTING LIMITS
6.1 Adjust upper limit

Hold UP and STOP on controller.	Move shade to the desired highest position by pressing the UP or DOWN button.	T
		

Motor Response



Motor Response



6.2 Adjust lower limit

Hold DOWN and STOP on controller.	Move shade to the desired lowest position by pressing the UP or DOWN button.

Motor Response



Motor Response



IMPORTANT

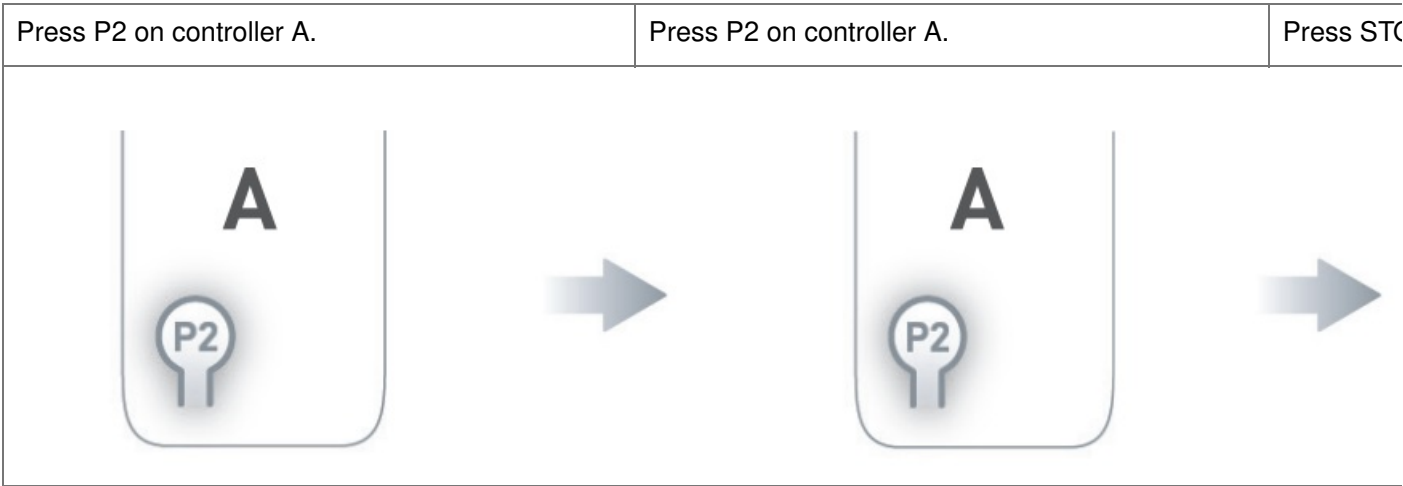
The bottom limit should be set ~ 1.38 in. (35mm) below the Ultra-Lock to disengage the auto lock mechanism when the shade is raised.

CONTROLLERS AND CHANNELS

7.1 Using P2 Button on existing controller to add a new controller or channel

A = Existing controller or channel (to keep)

B = Controller or channel to add or remove



Motor Response



Motor Response



Motor Response

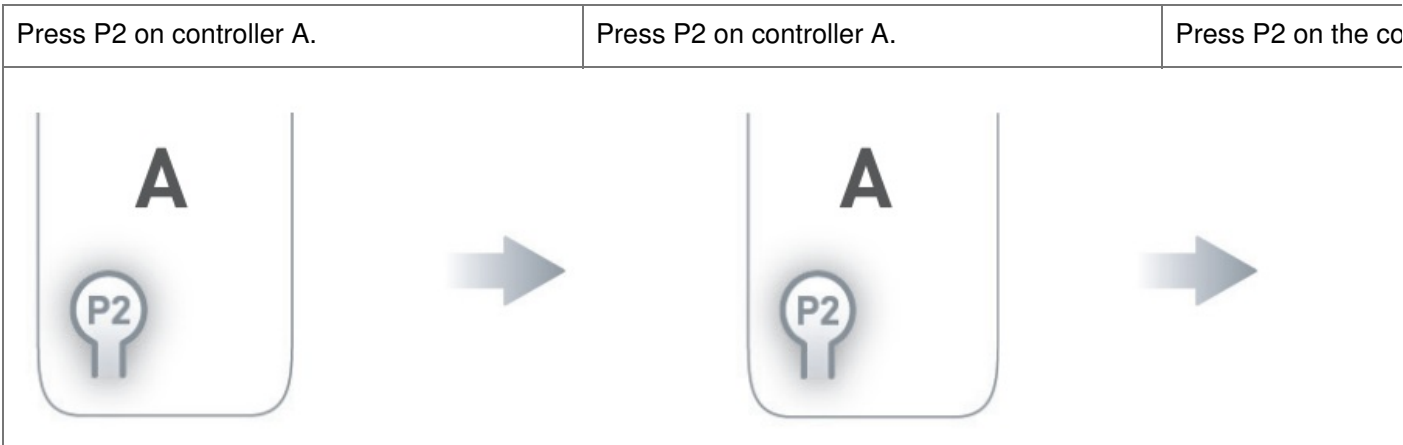





⚠️ IMPORTANT Consult user manual for your controller or sensor


7.2 Using a pre-existing controller to add or delete a controller or channel

A = Existing controller or channel (to keep)

B = Controller or channel to add or remove



Motor Response	Motor Response	Motor Response
		



 **IMPORTANT** Consult user manual for your controller or sensor



FAVORITE POSITIONING

8.1 Set a favorite position

Move shade to the desired position by pressing the UP or DOWN button on the controller.



Press P2 on controller.	Press STOP on controller.	Press S
		

Motor Response	Motor Response	Motor F
		

8.2 Send shade to favorite position



8.3 Delete favorite position

Press P2 on controller.	Press STOP on controller.	Press STOP on con




Motor Response	Motor Response	Motor Response

TILT & ROLLER MODE

9.1 Toggle motor to Tilt Mode






Default motor mode is Roller after initial Limits have been set, use following steps to change to Roller Mode.

Hold UP & DOWN on controller.	Press STOP on controller.

Motor Response	Motor Response
<div> <div>Approx. </div> <div>   </div> <div> JOG X1 BEEP X1 </div> </div>	

9.2 Toggle Motor to Roller Mode

If motor is in Tilt Mode, use following steps to change to Roller Mode.

Hold UP & DOWN on controller.	Press STOP on controller.
<div> <div>    </div>  <div>    </div> </div>	

Motor Response	Motor Response
<div> <div>Approx. </div> <div>   </div> <div> JOG X1 BEEP X1 </div> </div> <div>    </div>	

ADJUSTING SPEED

10.1 Increase Motor Speed

Default motor mode is the slowest speed.

Press **P2**





Press **UP**





Press **UP**



Motor Response	Motor Response	Motor Response
		

10.2 Decrease Motor Speed





Motor Response	Motor Response	Motor Response
		

SOFT STOP CONFIGURATION

11.1 Turn Soft Stop OFF

Motor must be in slowest speed to turn Soft Stop OFF.


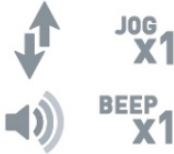


Motor Response	Motor Response	Motor
 		

11.2 Turn Soft Stop ON

Motor must be in fastest speed to turn Soft Stop ON.



Motor Response	Motor Response	M
 		

BATTERY CHECK FUNCTION


12.1 Send Shade to battery charge level

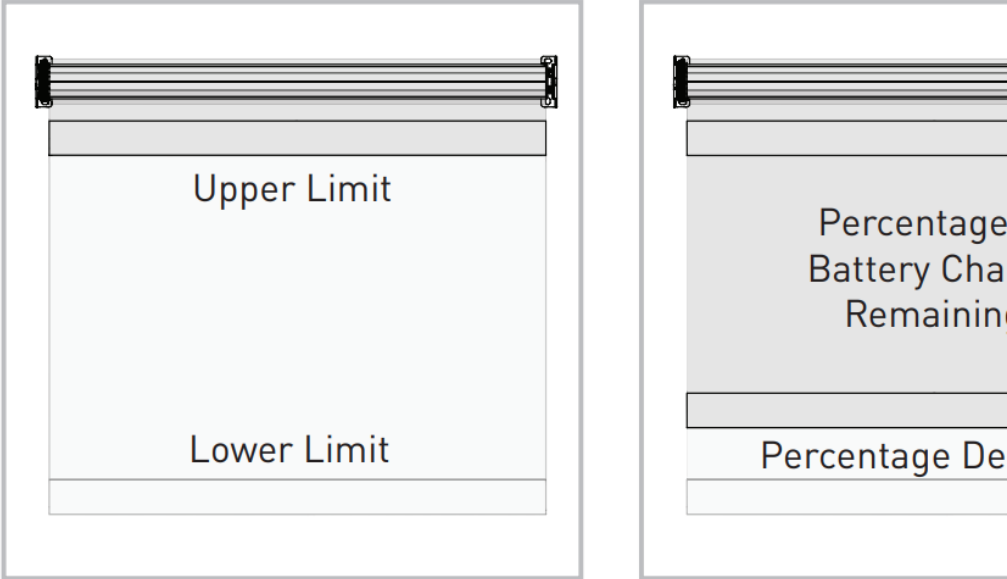
Shade must be at Upper Limit.

Hold UP



Motor Response

Approx. 

	
Shade must be at Upper Limit Hold UP for Approx. 5s	Shade moves to percentage of battery charge

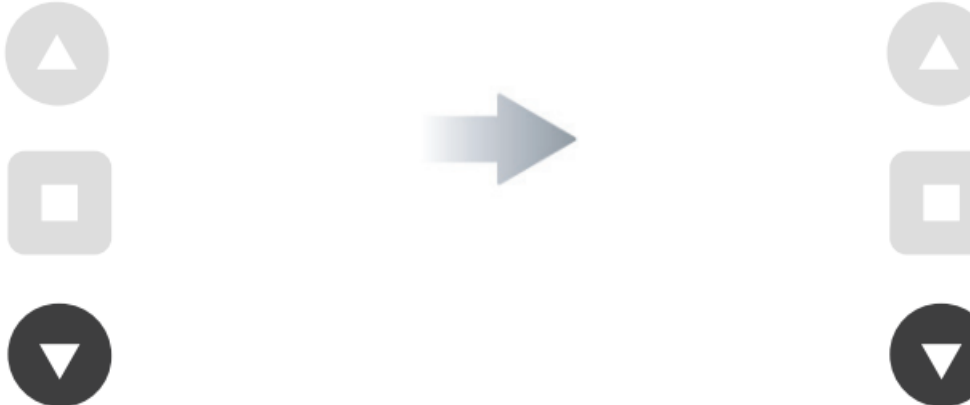
NOTE: This feature is can only be used with a DC motor when it is using a Barrery Pack as its power source.

CHARGING LED


(ONLY FOR LI-ION MOTORS)

13.1 Turn Charging LED ON/OFF

Motor must be at Lower Limit.

Hold DOWN to toggle off	Hold DOWN to toggle on
	

Motor Response

Approx. 

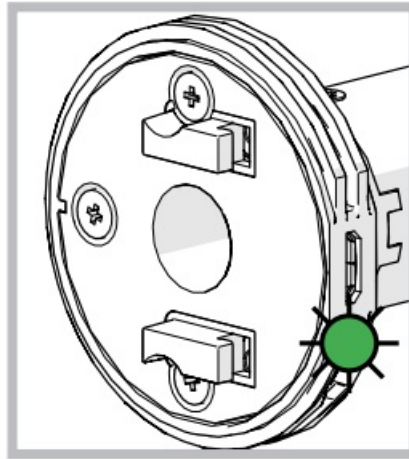
Red LED flashes x3

Motor Response

Approx. 

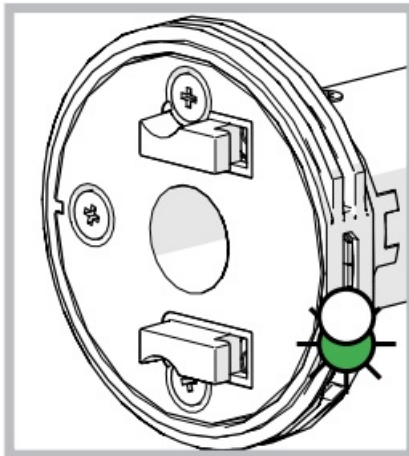
Red LED flashes x3

CHARGING LED STATUS



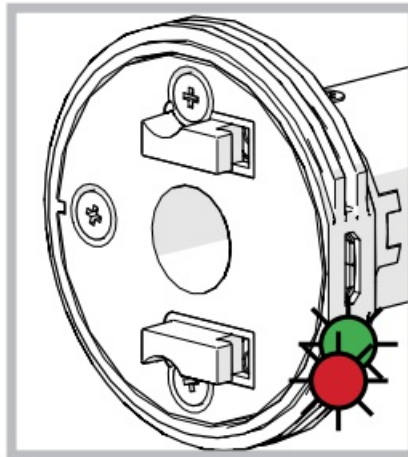
SOLID GREEN

Motor is fully charged



BLINKING GREEN

Motor is charging. Battery is greater than 50%.



BLINKING GREEN & RED

Motor is charging. Battery is lower than 50%.

SLEEP MODE

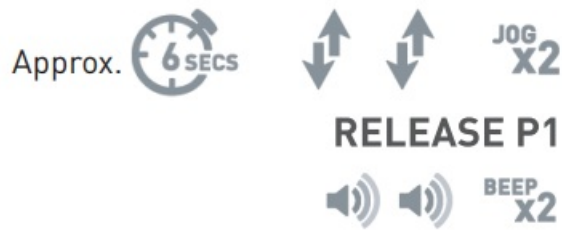
If multiple motors are grouped on a single channel, Sleep Mode may be used to put all but 1 motor to sleep, allowing programming of just the one motor that remains “Awake”. See page 6 for detailed P1 functions.

Enter Sleep Mode

Sleep mode is utilized to prevent a motor from incorrect configuration during other motor setup.

Hold P1 button on the motor head

Motor Response

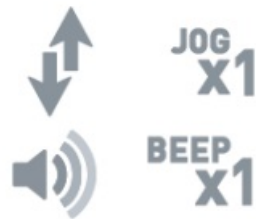


Exit Sleep Mode: Method 1

Exit sleep mode once the shade is ready.

Press and release P1 button on the motor head

Motor Response



Exit Sleep Mode: Method 2

Remove power and then re-power the motor.

15 TROUBLE SHOOTING

Problem	Cause	Remedy
Motor is not responding	Battery in motor is depleted or Power Supply is not working	Recharge with a compatible charger
	Insufficient charging from solar PV panel	Check connection and orientation
	Transmitter battery is discharged	Replace battery
	Battery is inserted incorrectly into transmitter	Check battery polarity
	Radio interference/shielding	Ensure transmitter is positioned straight and away from metal
	Receiver distance is too far from transmitter	Move transmitter to a closer position
	Charging failure	Check power supply to motor and transmitter
Motor beeps x10 when in use	Battery voltage is low	Recharge with a compatible charger
Cannot program a single motor or (multiple motors respond)	Multiple motors are paired to the same channel	Always reserve an individual channel to program individual motors.

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NOTES

AUTOMATE™

Automate™ Programming Instructions
Li-ion & DC Motors
ROLLEASE ACMEDA

Documents / Resources

	<p>AUTOMATE Automate Li-ion 3.0 35mm Motor [pdf] Instruction Manual Automate Li-ion 3.0 35mm Motor, Li-ion 3.0 35mm Motor, Automate 35mm Motor, 35mm Motor, Motor</p>
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References

-  [Automate Shades](#)