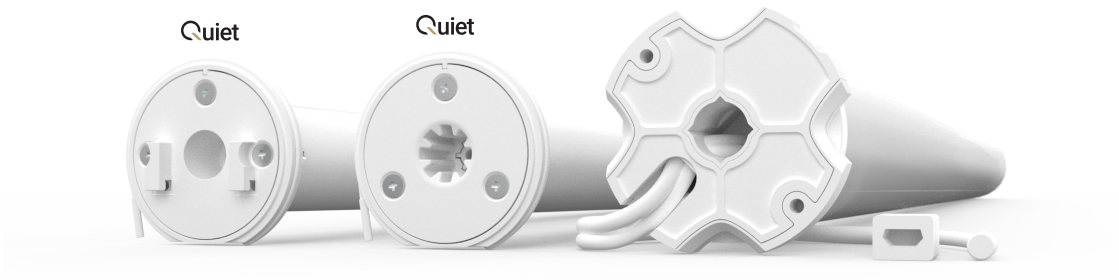
AUTOMATE®

PROGRAMMING MANUAL

Li-ion & DC Motors



SOFT STOP

ELECTRONIC LIMIT

SELECTABLE SPEED

433 MHZ BI-DIRECTIONAL

FAVORITE POSITION

BATTERY CHECK

SOLAR OPTION

LEVEL CONTROL

BATTERY POWERED

USB CHARGE (Only for Li-ion Motor)

ARC

Applicable Motor Series	Minimum Tube Diameter	Rated Torque	Maximum Operating Time
MT01-1225 Series MT01-1325 Series	Ø25 mm	0.7 Nm or 1.1 Nm	6min, 10min or 12min
MT01-1328 Series MT01-1228 Series MTDCBRFQ28 Series MTDCRFQ28 Series	Ø28 mm	2 Nm	
MTDCRF35 Series MTDCBRF35 Series MT01-1335 Series MT01-1235 Series	Ø35 mm	3 Nm or 6 Nm	
MTDCRFQ45 Series MT01-1245 Series MTDCRF45 Series MTDCBRF45 Series MT01-1345 Series	Ø45 mm	3 Nm, 6Nm, 10 Nm or 13 Nm	

Note: The series listed in the table above represent families of motors with multiple part numbers. For specific part numbers, torque ratings, motor diameter, operating time and other motor-specific values, please **refer to the label on the motor**.

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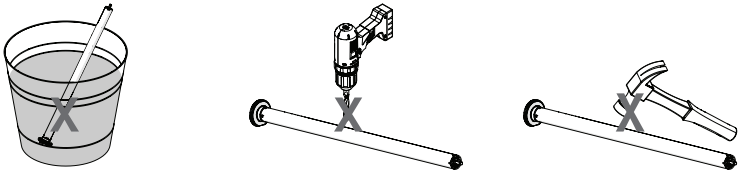
1. Safety Instructions

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.

Incorrect installation or use can lead to serious injury and will void manufacturer's liability and warranty.
It is important for the safety of persons to follow the enclosed instructions. Save these instructions for future reference.

- 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 motor can be used by children aged 8 years and above, and by persons with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, if they have been given supervision or instruction on the safe use of the motor and understand the hazards involved.
- Children should not play with the motor or remote control.
- Cleaning and user maintenance must not be performed by children without supervision.
- 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. Do not use if repair or adjustment is necessary.
- Before cleaning or performing any maintenance, ensure the charging cable is disconnected (if connected).
- The lithium-ion motors contains a non-user-serviceable lithium-ion battery. Do not attempt to open or dismantle the product.
- Maintenance or repair must only be carried out by a suitably qualified installer or technician.
- No parts inside the motor are intended to be replaced by the user.
- The A-weighted emission sound pressure level of the appliance is less than or equal to 70dB(A).
- For charging of lithium-ion motors, use only protection class II power supply approved for use with household products and SELV output 5V, max. 2A.
- When maintenance or other activities (such as window cleaning) are being carried out in the vicinity of the blinds, ensure any charging cables are disconnected and automatic controls are switched off or disabled to prevent unintentional operation.
- Charging of lithium-ion motors is supported only via the USB Type-C port using a compliant SELV power supply as specified on the marking label.
- Do not use non-compliant chargers, DC power adaptor or attempt to connect the motor to any other power source.
- Keep clear of the motor when in operation.
- The driven part must be compatible with rated torque, minimum tube diameter and maximum operating time of the motor.
  Refer to the applicable motor series on page 1.
- Fixed controls have to be clearly visible after installation.
- When the motor is installed at a height of 2.5 meters or more above the floor or accessible level, the moving parts are considered out of reach. If the motor is installed at a height below 2.5 meters, additional precautions must be taken, as per the assembly and installation steps in this manual, to ensure safe access after installation and to ensure motor drives and attachments are inaccessible and pose no risk.
- Before installing the motor, remove any unnecessary cables or components and disable any equipment not needed for powered operation.
- The lithium-ion motors contains a sealed lithium-ion battery that cannot be removed by the user.
- At the end of its life, dispose of the product in accordance with local regulations for electronic waste.
- For lithium-ion motors, the battery will be removed and recycled by an authorized service centre or recycling facility.
- For lithium-ion motors, do not attempt to remove the battery yourself.
- Do not attempt to modify the charging cable or use non-approved adapters or extensions.
- If motor is used for outdoor application, the power cable and charging cables are not intended to be permanently exposed to outdoor conditions (sunlight, rain, moisture).
- If any cables are exposed to direct sunlight, they must comply with requirements of IEC 60245-57.
- For the lithium-ion motors, disconnect and store the charger indoors after charging.

2. 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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.

Les antennes installées doivent être situées de facon à ce que la population ne puisse y être exposée à une distance de moin de 20 cm. Installer les antennes de facon à ce que le personnel ne puisse approcher à 20 cm ou moins de la position centrale de l' antenne.

La FCC des éltats-unis stipule que cet appareil doit être en tout temps éloigné d'au moins 20 cm des personnes pendant son functionnement.

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

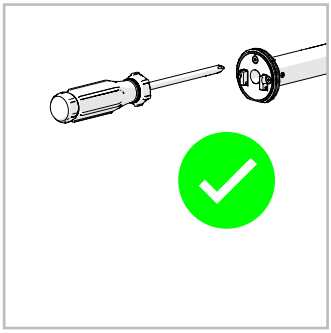
CAN ICES-3(B)/NMB-3(B)

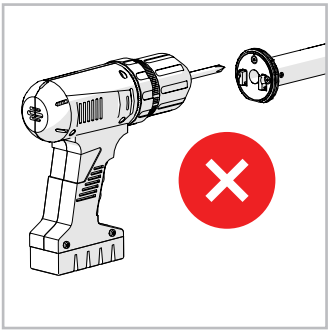
RECOGNIZED COMPONENT

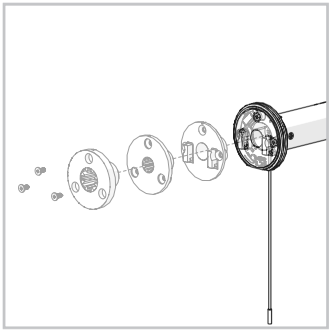
C ETL LISTED US

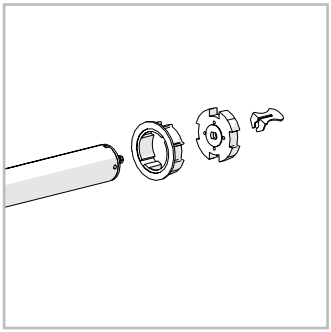
Intertek 5005833

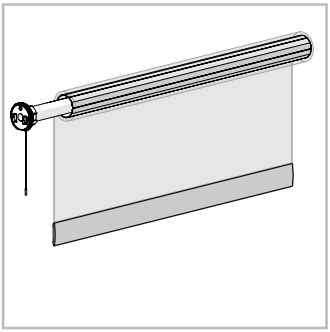
3. Assembly

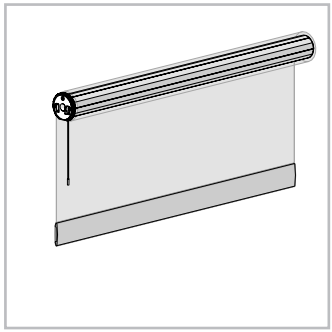


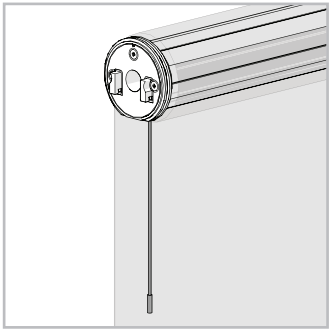


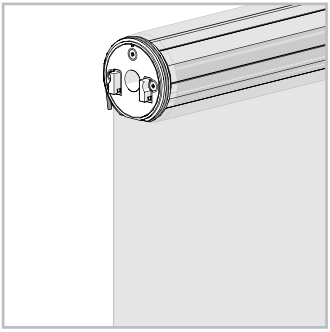




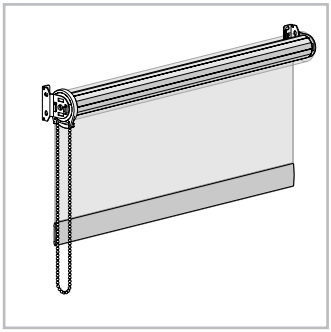
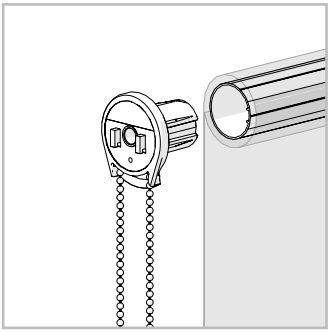
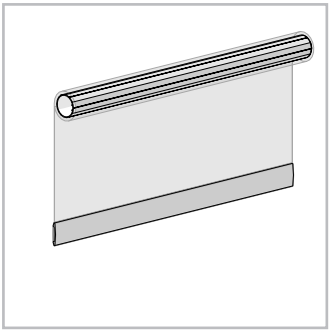
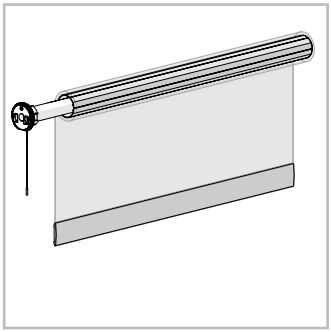
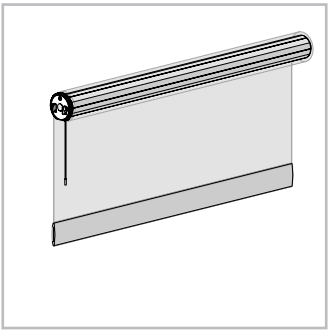
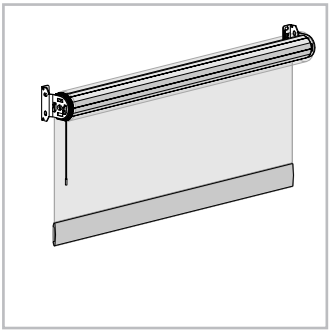
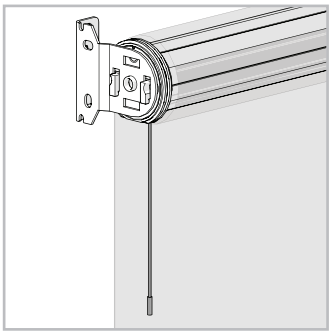


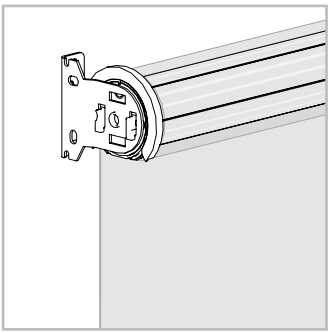




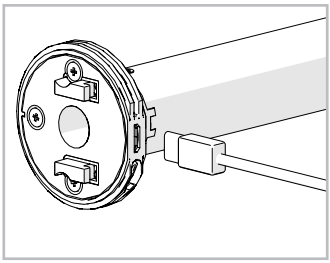
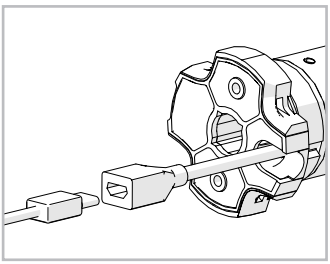
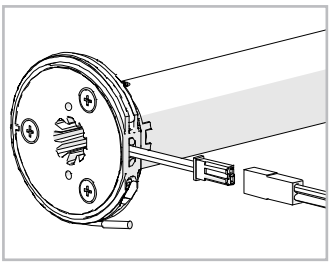


4. Retrofit Installation



5. Charging

6. P1 Button Functions

6.1 Motor State Test

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

P1 Press	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

6.2 Motor Configuration Options

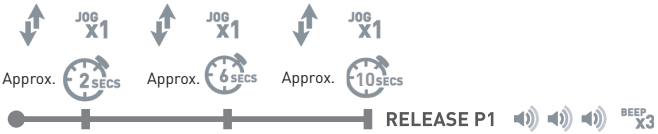
The **P1** Button is utilized to administer motor configurations as described below.

Hold **P1** button on motor head.

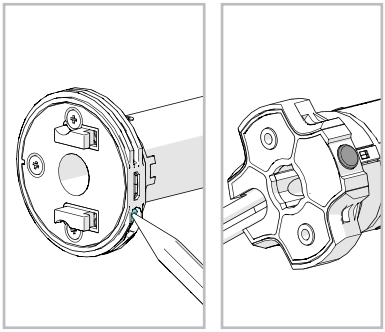
Activate Pairing Mode

Sleep Mode

Reverse Direction



Reset To Factory Settings



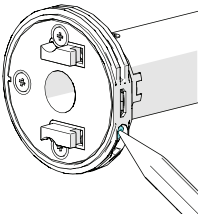
P1 button on motor head.

7. Initial Setup

7.1 Pair Motor with Controller

Select channel on controller.

Hold **P1** button on motor head.



Hold **STOP** on controller.

IMPORTANT

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

Motor Response

JOG X1

RELEASE P1

EXT. BEEP X1

Motor Response

Approx. 2 SECS

JOG X2

BEEP X3

Motor is now in step mode and ready for setting limits

7.2 Check Motor Direction

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

Quick Press = Step

Long Press = Continuous Travel

To reverse shade direction, hold both **UP** and **DOWN**.

Until the motor responds.

Motor Response

Approx. 2 SECS

JOG X1

BEEP X1

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

7.3 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**.

Motor Response

Approx. 5 SECS

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

To save lower limit, hold **DOWN** and **STOP**.

Motor Response

Approx. 5 SECS

IMPORTANT

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

8. Adjusting Limits

8.1 Adjust Upper Limit

Hold **UP** and **STOP** on controller.

Move shade to the desired highest position by pressing the **UP** or **DOWN** button.

To save upper limit, hold **UP** and **STOP**.

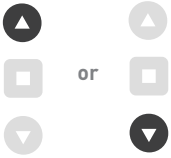
Motor Response

Motor Response

8.2 Adjust Lower Limit

Hold **DOWN** and **STOP** on controller.

Move shade to the desired lowest position by pressing the **UP** or **DOWN** button.



To save lower limit, hold **DOWN** and **STOP**.

Motor Response

Motor Response

9. Controllers and Channels

9.1 Using P2 Button on Existing Controller to Add a New Controller or Channel

A (Controller) = Existing controller, remote or channel that is paired to the motor.

B (Controller) = Controller or channel to add.

Press **P2** on controller **A**.

Motor Response

Press **P2** again on controller **A**.

Motor Response

Hold **STOP** on controller **B** to add it.

Motor Response

IMPORTANT Consult user manual for your controller or sensor

9.2 Using a Pre-existing Controller to Add or Delete a Controller or Channel

A (Controller) = Existing controller, remote or channel that is paired to the motor.

B (Controller) = Controller or channel to add or remove.

Press **P2** on controller **A**.

Motor Response

Press **P2** again on controller **A**.

Motor Response

Press **P2** on controller **B** to pair it.

Motor Response

NOTE Repeating this section with an existing Remote (A) and a paired Remote (B) will unpair the Remote (B) from the motor.

10. Favorite positioning

10.1 Set Favorite Position

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

Press **P2** on controller.

Motor Response

Press **STOP** on controller.

Motor Response

Press **STOP** on controller.

Motor Response

10.2 Send Shade to Favorite Position

10.3 Delete Favorite Position

Press **P2** on controller.

Motor Response

Press **STOP** on controller.

Motor Response

Press **STOP** on controller.

Motor Response

11. Tilt & Roller Mode

11.1 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.

Motor Response

Approx. 5 SECS JOG X1

Press **STOP** on controller.

Motor Response

JOG X1

EXT. BEEP X1

11.2 Toggle Motor to Roller Mode

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

Hold **UP** & **DOWN** on controller.

Motor Response

Approx. 5 SECS JOG X1

Press **STOP** on controller.

Motor Response

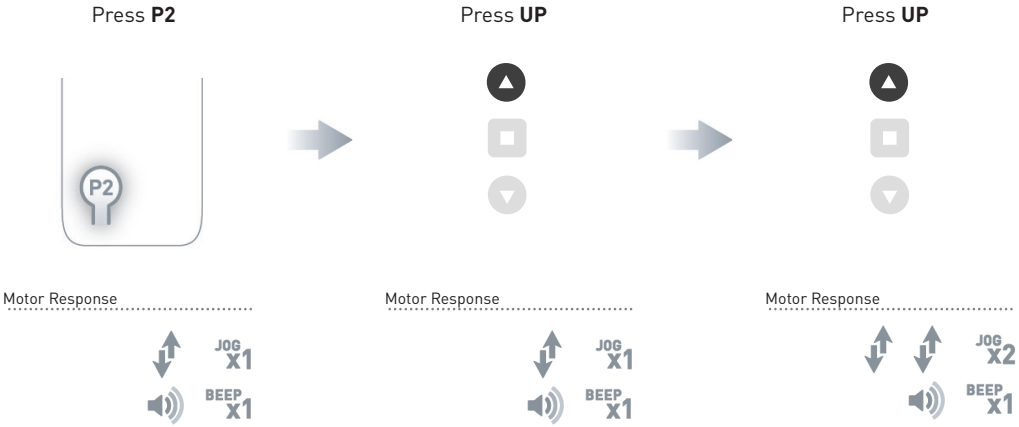
JOG X2

BEEP X3

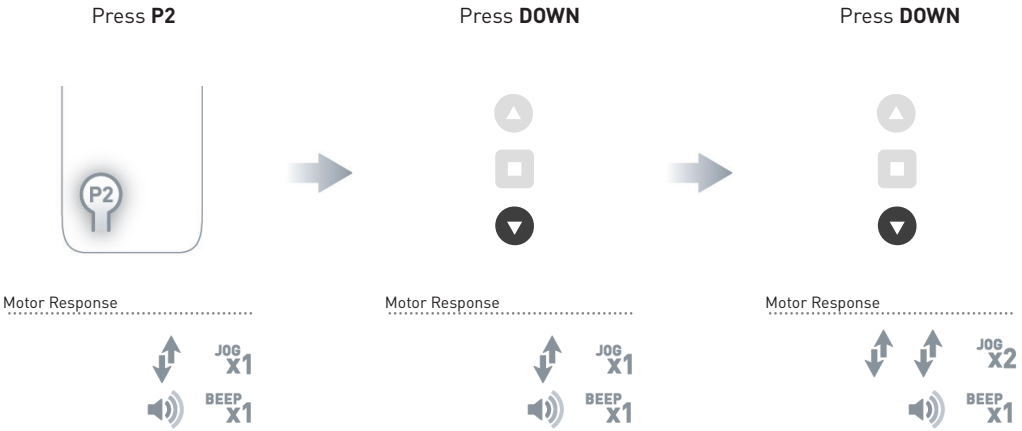
12. Adjusting Speed

12.1 Increase Motor Speed

Default motor mode is the slowest speed.



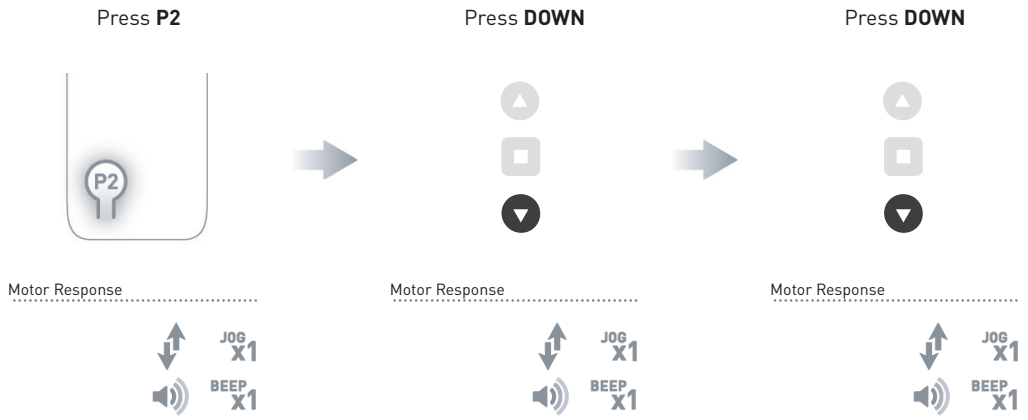
12.2 Decrease Motor Speed



13. Soft Stop Configuration

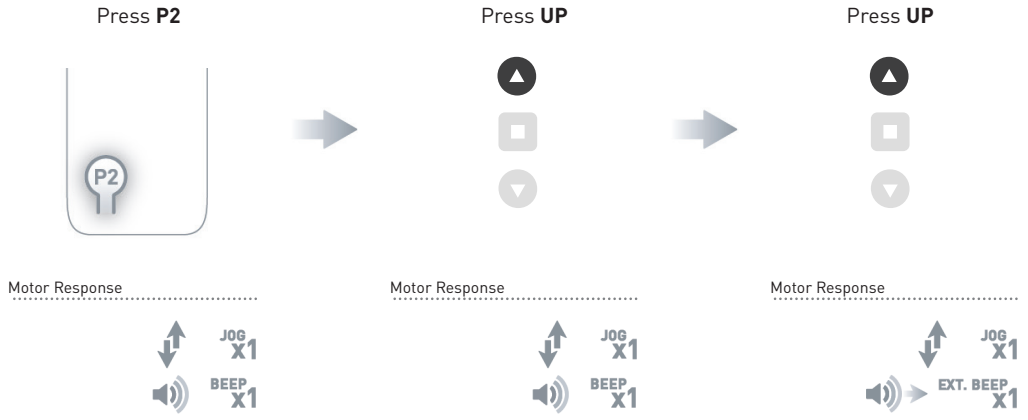
13.1 Turn Soft Stop OFF

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



13.2 Turn Soft Stop ON

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



14. Battery Check Function

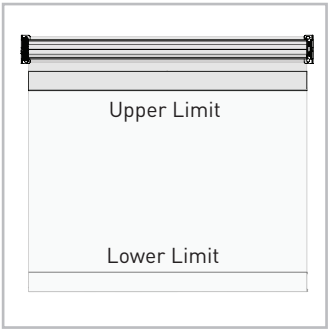
14.1 Send Shade to Battery Charge Level

Shade must be at Upper Limit.

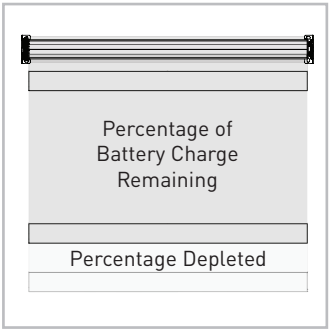
Hold **UP**

Motor Response

Approx. 5 SECS



Shade must be at Upper Limit
Hold **UP** for Approx. 5s



Shade moves to percentage of battery charge remaining

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

15. Charging LED

15.1 Turn Charging LED ON/OFF

Motor must be at Lower Limit.

Hold **DOWN** to toggle off

Motor Response

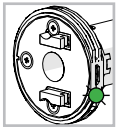
Approx. 5 SECS Red LED flashes x3

Hold **DOWN** to toggle on

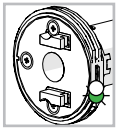
Motor Response

Approx. 5 SECS Red LED flashes x3

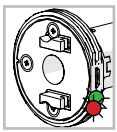
CHARGING LED STATUS



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%.

16. 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

Approx. 6 SECS JOG X2

RELEASE P1

BEEP X2

Exit Sleep Mode: Method 1

Exit sleep mode once the shade is ready.

Press and release **P1** button on the motor head

Motor Response

JOG X1

BEEP X1

Exit Sleep Mode: Method 2

Remove power and then re-power the motor.

17. Troubleshooting

Problem	Cause	Remedy
Motor is not responding	Battery in motor is depleted	Recharge with a compatible charger
	Insufficient charging from solar PV panel	Check connection and orientation of PV panel
	Transmitter battery is discharged	Replace battery
	Battery is inserted incorrectly into transmitter	Check battery polarity
	Radio interference/shielding	Ensure transmitter is positioned away from metal objects and the aerial on motor or receiver is kept 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 is connected and active
Motor beeps x10 when in use	Battery voltage is low	Recharge with a compatible charger
Cannot program a single motor (multiple motors respond)	Multiple motors are paired to the same channel	Always reserve an individual channel for programming functions. Use Sleep Mode to program individual motors.

Notes

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