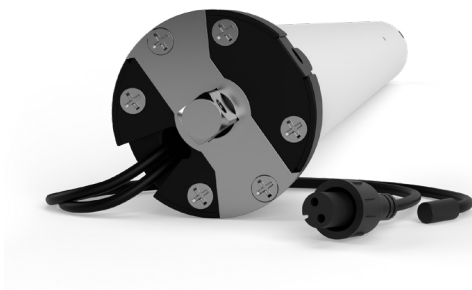


Li-ion FT Motor



433 Mhz
Bi-Directional



Electronic
Limit



Favorite
Position



Impact
Detection



Fabric
Tension



Ultra
Lock



Battery
Check



Automate Radio
Communication



Soft
Stop

AUTOMATE® | Li-ion FT tubular motors combine the simple, intuitive features of Automate Radio Communication (ARC) , Fabric Tension capability, and the convenience of a rechargeable lithium-ion battery.

Operating Modes:

- **E-Type Mode** – For standard operation
- **Manual FT Mode** – For use with conventional locking devices and fabric tensioning
- **Auto FT Mode** – For use with Rollease Acmeda's proprietary Ultra Lock system, providing automatic fabric tensioning

Key Features

- **Favorite Position** – Allows an intermediate setting to be preset for user convenience
- **Battery Check** – Automatically lowers the shade to reflect the battery's remaining charge
- **Impact Detection** – Detects obstacles and redirects the shade to protect the motor, fabric, and hardware, ensuring product longevity

CONTENTS

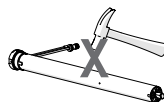
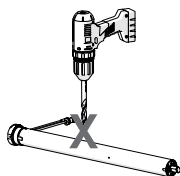
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1. SAFETY INSTRUCTIONS

WARNING: Important safety instructions to be read before installation.

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

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 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 rated torque, minimum tube diameter and maximum operating time of the motor as outlined below: For MT01-1345-069005: rated torque of 15 Nm, maximum operating time of 6 minutes, and minimum tube diameter of $\varnothing 45$ 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.

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

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



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



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

RECOGNIZED
COMPONENT



Intertek
5005833

3. ASSEMBLY

Please refer to Rollease Acmeda System Assembly Manual for full assembly instructions relevant to the hardware system being used.

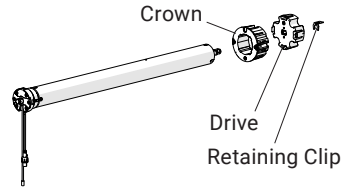
1. Fit required crown, drive and bracket adapters.

Tube must be close fitting with chosen crown and drive adapters. A Hall effect sensor embedded in the tube measures the magnetic field change and detect the impact. Refer to Rollease Acmeda System Assembly Manual for recommended crown, drive and bracket adapter kits.



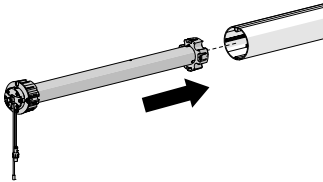
IMPORTANT

For impact detection to be functional, a 2 piece drive set must be used. Using a standard 1 piece drive will render the collision control feature inoperable even if the feature is turned on.



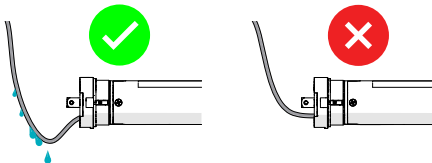
2. Slide Motor into tube.

Insert by aligning key-way in crown and drive wheel into the tube.



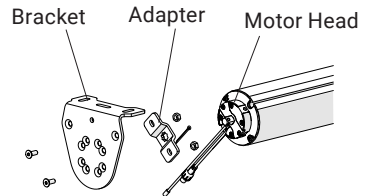
IMPORTANT

Ensure Motor is rotated so that cable is at the bottom of the motor.



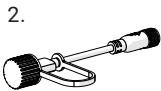
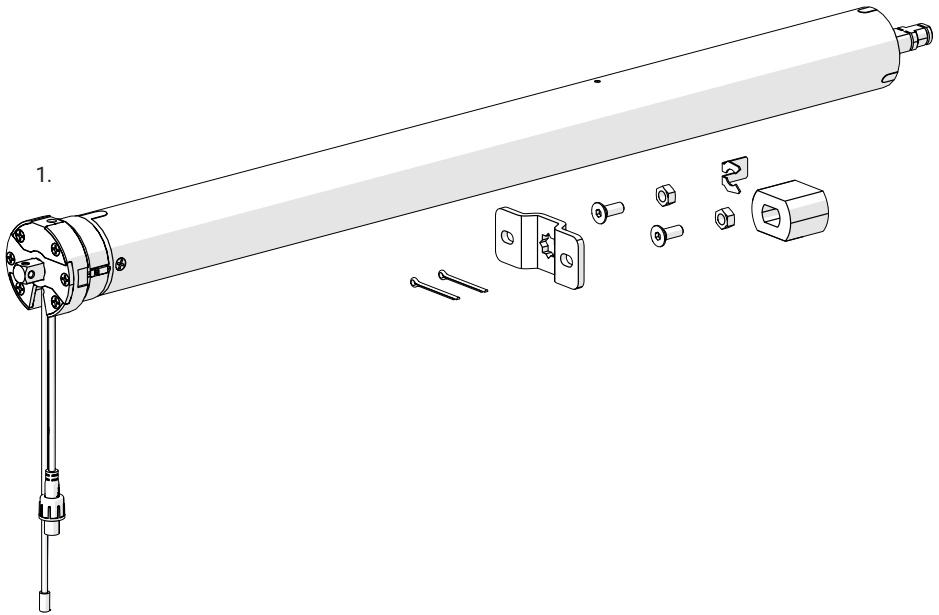
3. Mount motorized tube onto brackets.

Refer to Rollease Acmeda System Assembly Manual for recommended crown, drive and bracket adapter kits.



4. WHAT'S IN THE BOX

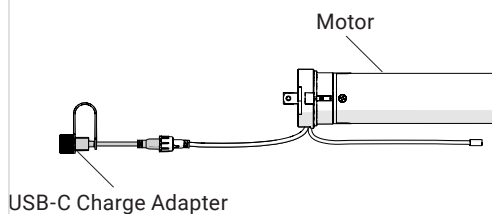
1. Li-ion FT 15 Nm Motor
2. USB-C Charge Adapter



5. SYSTEM CONFIGURATION OPTIONS

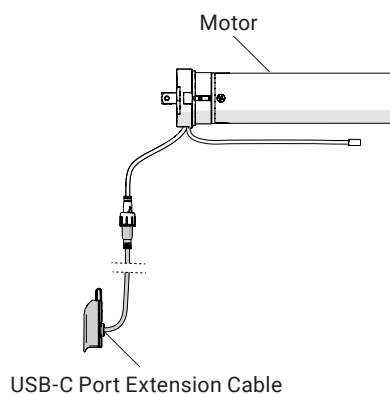
Option 1:

Motor with USB-C Charge Adapter



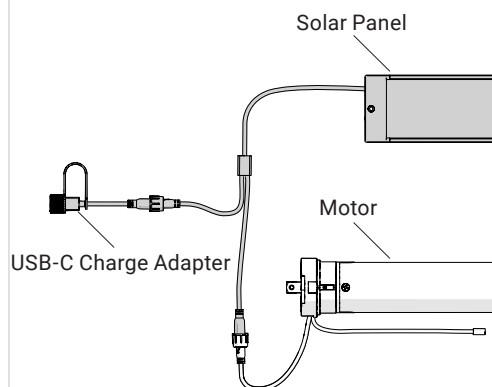
Option 2:

Motor with USB-C Port Extension Cable



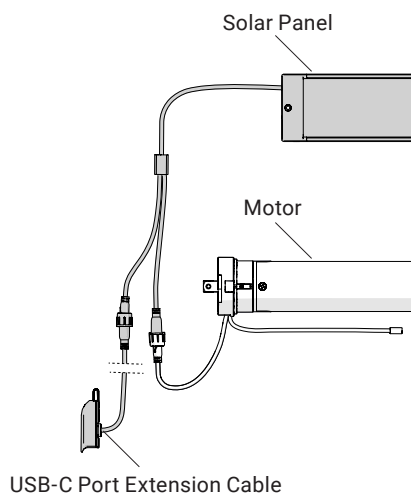
Option 3:

Motor and Solar Panel with USB-C Charge Adapter



Option 4:

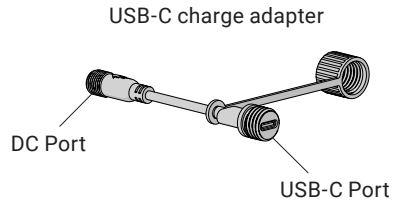
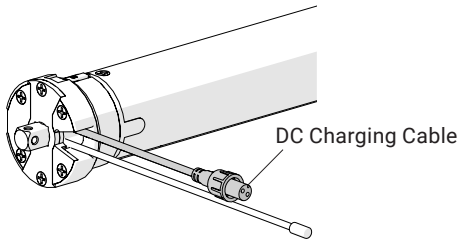
Motor and Solar Panel with USB-C Port Extension Cable



6. CHARGING THE LI-ION FT MOTOR

The Li-ion FT motor includes a built-in DC charging cable located at the motor head.

To enable charging using a standard USB-C cable, a USB-C charge adapter (DC to USB-C female) is supplied. This adapter converts the motor's DC port into a USB-C charging interface.

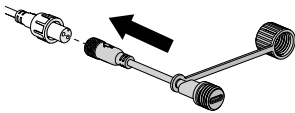


IMPORTANT

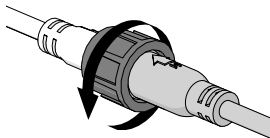
Fully charge the Motor before first use.

To use the USB-C charge adapter:

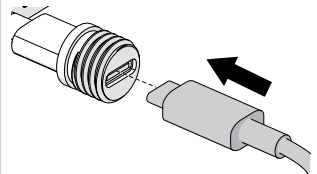
1. Plug the DC end of the adapter into the motor cable.



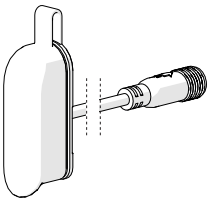
2. Screw the cap over the DC connection to secure it and maintain water resistance.



3. Connect your USB-C charger cable to the USB-C end of the adapter.



Note: If using a USB-C port extension cable (sold separately), the USB-C charge adapter is not required.

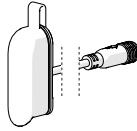


7. USB-C PORT EXTENSION CABLE (OPTIONAL ACCESSORY)

USB-C port extension cable is available as an optional accessory. It can be installed directly on the side channel extrusion to provide a more convenient and water resistant user-accessible charging point.

Available lengths:

1. 1.5 m – MT03-0304-050025
2. 2.5 m – MT03-0304-050023



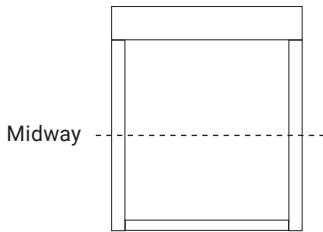
Installation :



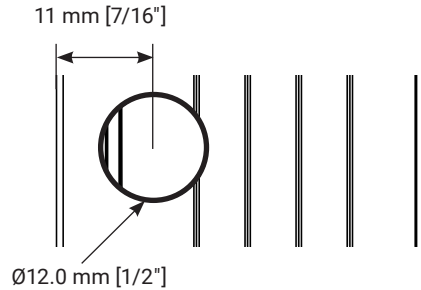
IMPORTANT

Complete all steps shown below before installing the inner rail.

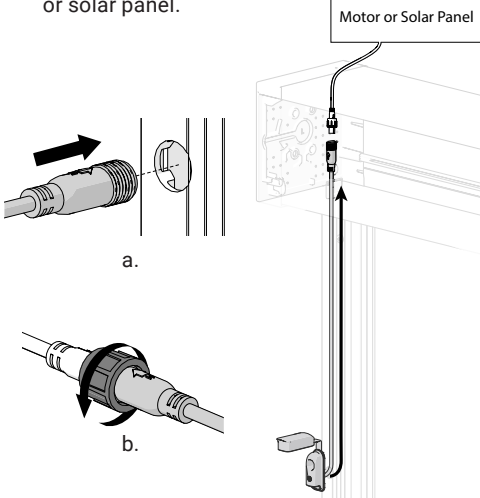
1. Mark the hole midway up the extrusion for maximum adjustability.



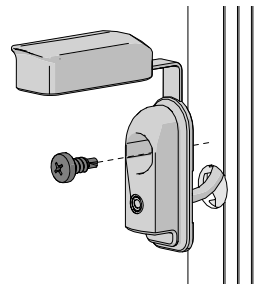
2. Drill a Ø12.0 mm hole, 11 mm from the edge at the marked point.



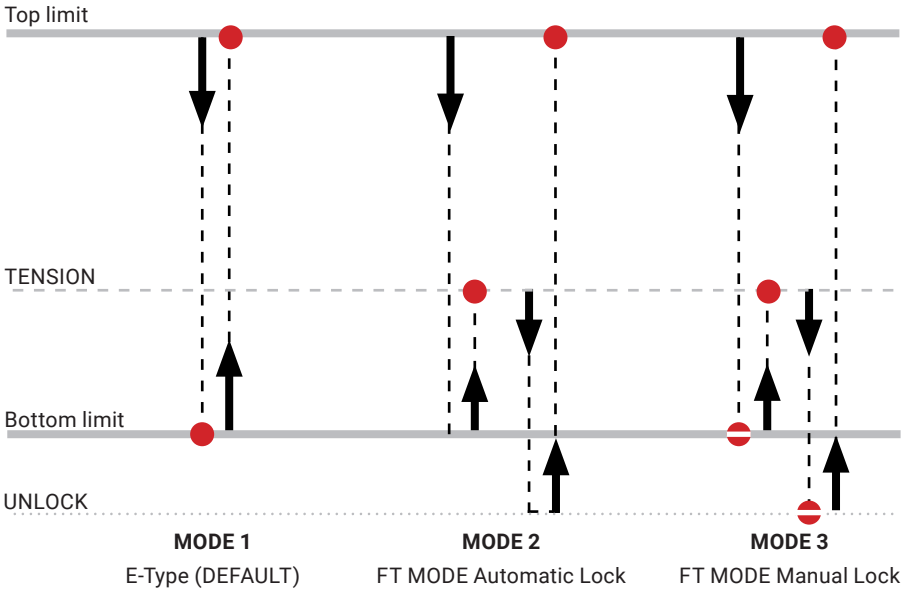
3. a. Feed the cable through the hole.
b. Connect the DC plug to either the motor or solar panel.



4. Attach the charging port to the side channel using a suitable self-tapping screw (not supplied).



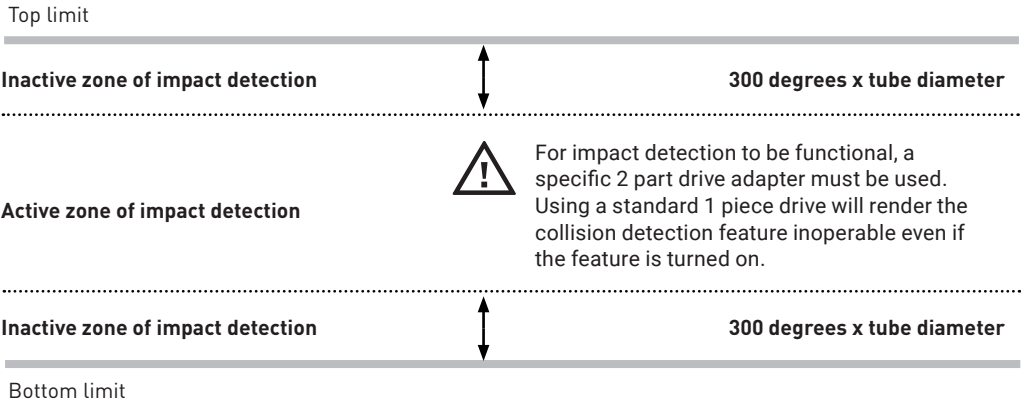
8. SELECTABLE MODE



LEGEND	
END OF CYCLE ●	CYCLE PAUSE ⊖

8.1 Impact Detection

Impact detection is deactivated by default. It may be activated in all three modes. If an obstacle is detected twice in the shade path during downward movement, the motor lifts the shade approximately 7.87 in. (20 cm).



9 P1 BUTTON FUNCTIONS

9.1 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

9.2 Motor configuration options

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

Hold **P1** button on motor head.

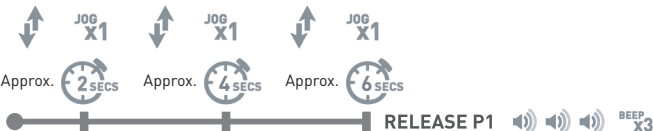
Activate Pairing Mode



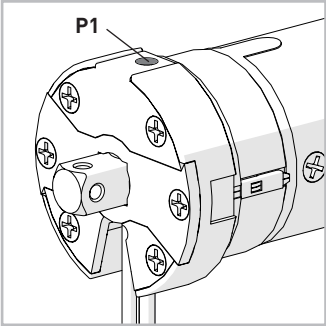
Sleep Mode



Reverse Direction



Reset To Factory Settings

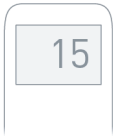


P1 button on motor head.

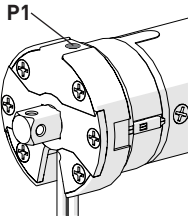
10 INITIAL SET UP

10.1 Pair motor with controller

Select channel on controller.



Press the **P1** button until the motor responds then release.



Hold **STOP** on controller.



Motor Response



Motor Response



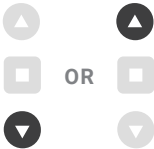
Motor is now in step mode and ready for setting limits.

IMPORTANT

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

10.2 Check motor direction

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



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

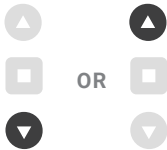
10.3 Set Limits



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.



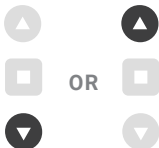
To save upper limit, hold **UP** and **STOP**.



Motor Response



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



IMPORTANT

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

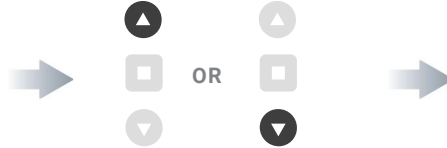
11 ADJUSTING LIMITS

11.1 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

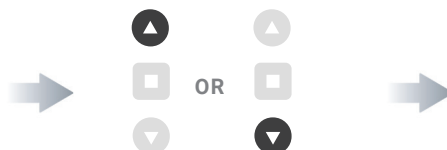


11.2 Adjust lower limit

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



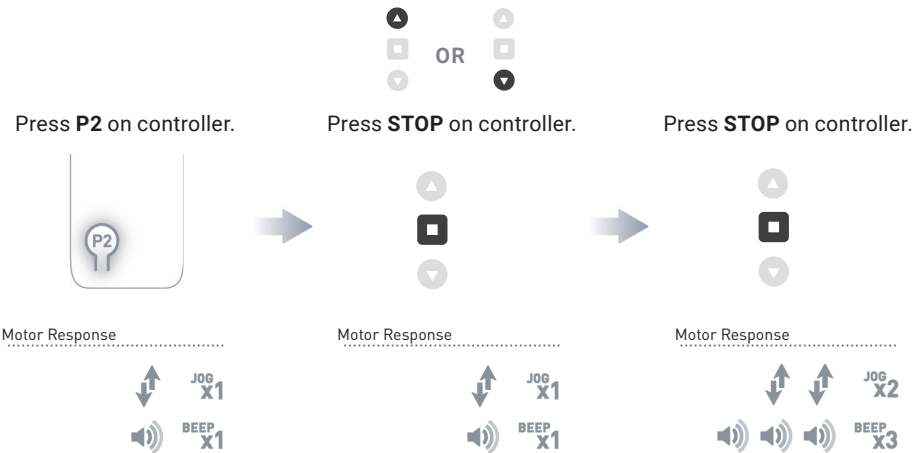
IMPORTANT (ULTRA-LOCK V2 ONLY)

When using the Ultra-lock V2, the bottom limit must be set within the 'locking zone'. Jog the weight bar down until you hear both locking pins click into each housing.

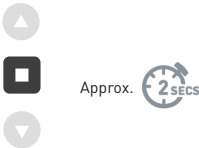
12 FAVORITE POSITIONING

12.1 Set a favorite position

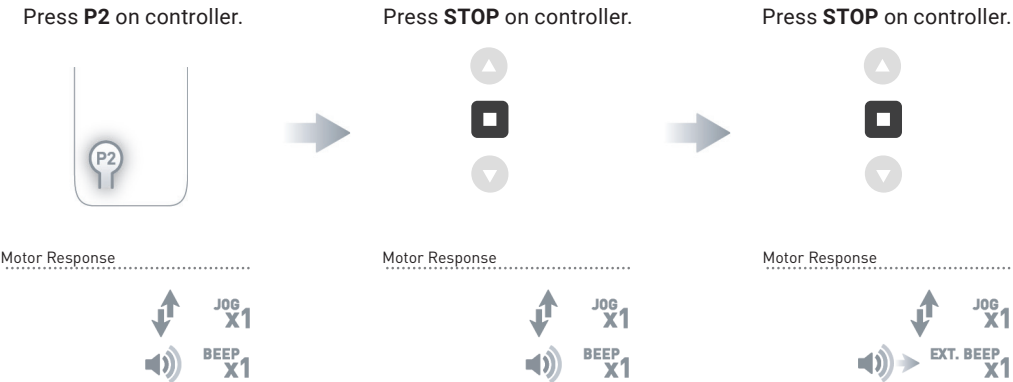
Move shade to the desired position by pressing the **UP** or **DOWN** button on the controller.



12.2 Send shade to favorite position



12.3 Delete favorite position



13 FABRIC TENSION SETTING

13.1 Activate/Deactivate FT Mode

 **Note:** When activating FT Mode for the first time, **AUTOMATIC** Lock Mode is selected.
FT Mode is deactivated by default.

Press **P2** on controller.



Press **UP** on controller.



Press **UP** on controller.



FT MODE:
Motor Response



NO FT MODE:
Motor Response



13.2 Switching Auto & Manual Lock Modes

 **Note:** Motor must be in FT mode before switching between lock modes.

Press **P2** on controller.



Press **STOP** on controller.



Press **DOWN** on controller.



AUTO MODE:
Motor Response



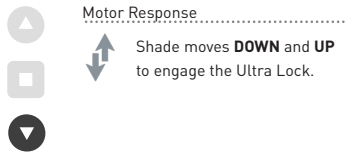
MANUAL MODE:
Motor Response



13.3 Auto Mode Operation

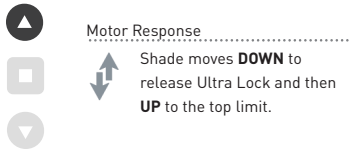
LOCK

Press **DOWN** on controller.



UNLOCK

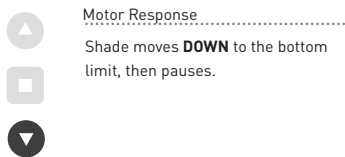
Press **UP** on controller.



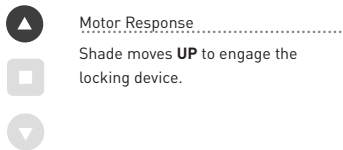
13.4 Manual Mode Operation

LOCK

Press **DOWN** on controller.

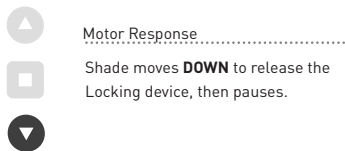


Press **UP** on controller.

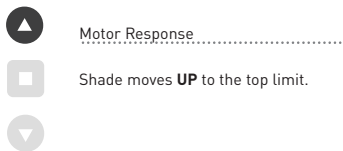


UNLOCK

Press **DOWN** on controller.

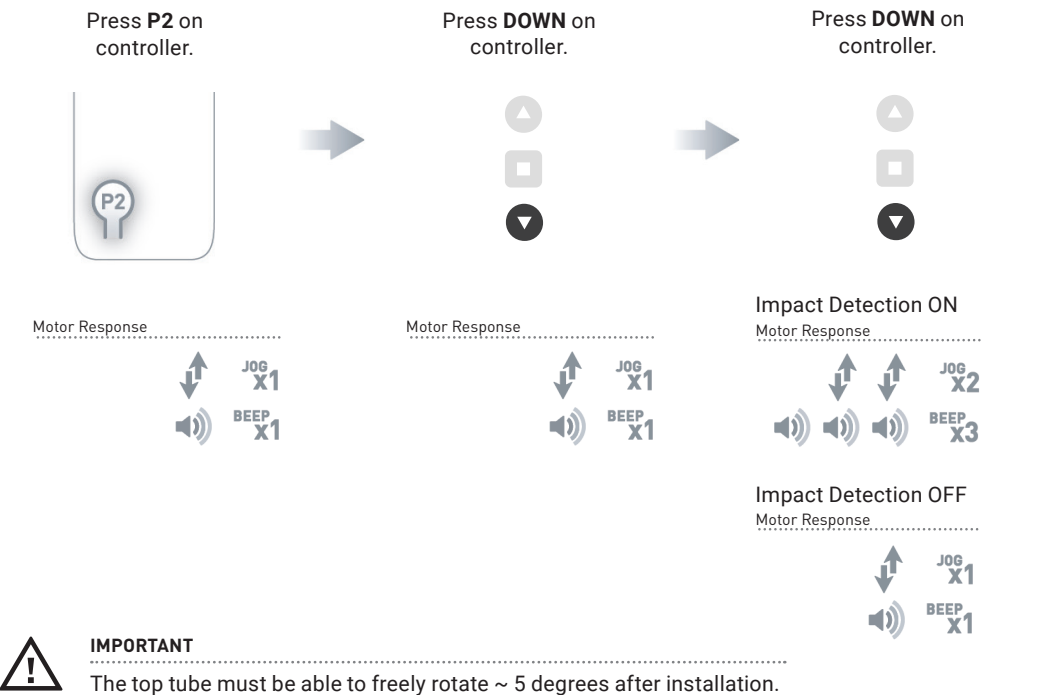


Press **UP** on controller.



13.5 Activate/Deactivate Impact Detection Mode

The Impact Detection feature only works in the active zone during downward movement.
All three modes have this impact detection feature deactivated by default.
Repeat sequence to turn on or off as required.



14 SOFT STOP CONFIGURATION

14.1 Activate Soft Stop

Soft Stop is deactivated by default.

Hold **UP & DOWN** on controller for 5 seconds.



Press **P2** on controller.



Press **UP** on controller.



14.2 Deactivate Soft Stop

Hold **UP & DOWN** on controller for 5 seconds.



Press **P2** on controller.



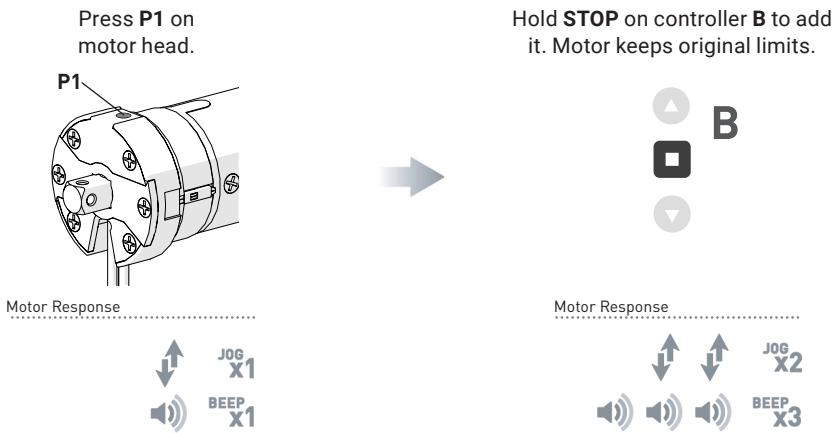
Press **UP** on controller.



15 CONTROLLERS AND CHANNELS

15.1 Using motor P1 Button to add a new controller or channel

B (Controller) = Controller or channel to add.



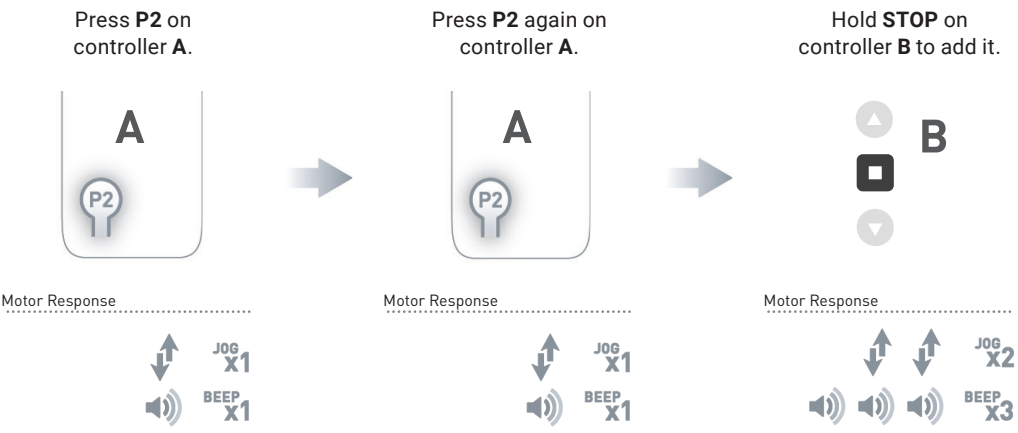


IMPORTANT

Consult user manual for your controller or sensor.

15.2 Using P2 Button to add a new controller or channel

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





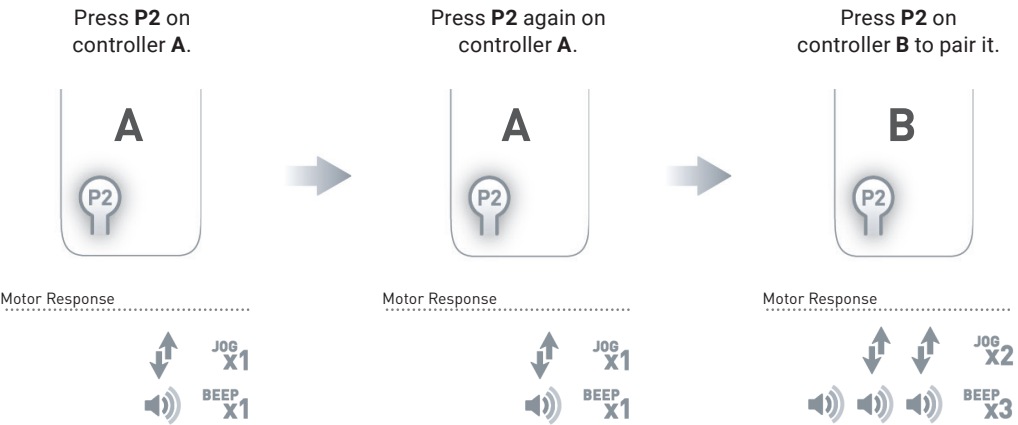
IMPORTANT

Consult user manual for your controller or sensor.

15.3 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.



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

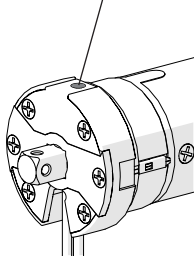
16 SLEEP MODE

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”.

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



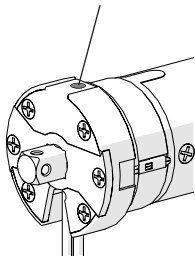
Motor Response



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

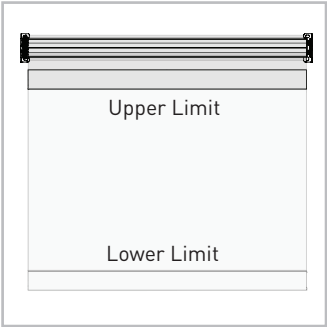
Remove power and then re-power the motor.

16 BATTERY CHECK FUNCTION

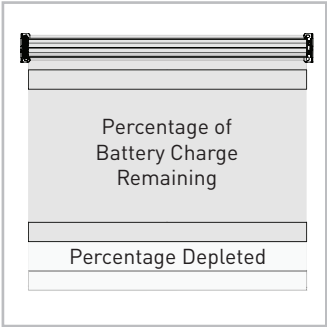
16.1 Send Shade to battery charge level

Shade must be at Upper Limit.

Hold **UP**



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



Shade moves to percentage
of battery charge remaining

Motor Response



17 SUN AND WIND SENSOR

Ensure the Sun and Wind sensor functionality on the motor is activated prior to pairing the sensor.

17.1 Activate/Deactivate sensor functionality

 **Note:** Functionality activated by default.

Press **P2** on controller



Motor Response



Press **UP** on controller



Motor Response



Press **STOP** on controller



Motor Response (Activated)



Motor Response (Deactivated)



17.2 Pairing Wind and Sun sensor to Motor

On Remote

Press **P2** on controller



Motor Response



Press **P2** on controller



Motor Response



On Sensor

Press **P2** to wake the sensor



Press **P2** on an existing controller to add or



Motor Response



 **IMPORTANT**

Once the motor receives a command from the wind sensor, the motor will respond accordingly. At this point the motor will ignore any other remote or sensor commands for 8 minutes. This is needed to avoid contradicting multiple triggers. Keep this in mind when testing the motor with the remote after the wind sensor has been triggered. The wind sensor function is ON by default.

 **Note:** Motor will jog to alert user if operated within 8 minutes.

Problem	Cause	Remedy
Motor is not responding.	Battery is depleted.	Recharge with a compatible charger.
	Insufficient charging from Solar Panel.	Check connection and orientation of Solar Panel.
	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.
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.

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