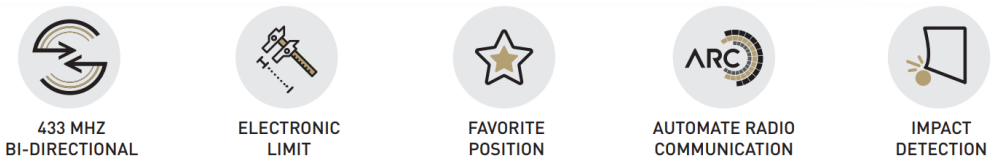
Automate AX30 EXTERNAL SHADE MOTOR User Manual

AUTOMATE™

AX30/AX50 EXTERNAL SHADE MOTOR

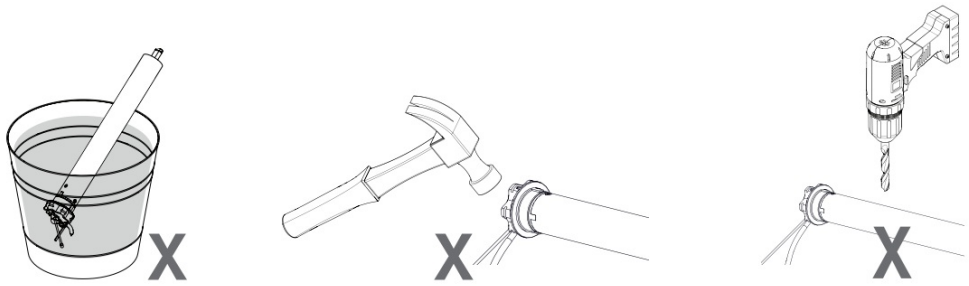


AUTOMATE | AX30/AX50 External Shade Motor combines the simple, intuitive features of ARC “Automate Radio Communication” with the higher lifting capacity of an AC motor for larger shade applications.

Contents

SAFETY INSTRUCTIONS

WARNING: Important safety instructions to be read before installation. Incorrect installation can lead to serious injury and will void the manufacturer's liability and warranty.
It is important for the safety of persons to follow the enclosed instructions. Save these instructions for future reference



- Do not expose to water, moisture, humid and damp environments or extreme temperatures
- Persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge should not be allowed to use this product.
- Keep away from children.
- Use or modification outside the scope of this instruction manual will void the warranty.
- Installation and programming to be performed by a suitably qualified installer.
- For use with motorized shading devices.
- Ensure correct crown and drive adapters are used for the intended system.
- Keep antenna straight and clear from metal objects
- Do not cut the antenna.
- Follow Rollease Acmeda installation instructions.
- Before installation, remove any unnecessary cords and disable any equipment not needed for powered operation.
- Ensure torque and operating time is compatible with the end application.
- The motor is to be installed in horizontal application only.

- The routing of cable through walls shall be protected by isolating bushes or grommets.
- Ensure power cable and aerial is clear and protected from moving parts.
- If the cable or power connector is damaged do not use it.
- Route motor cable to create a drip loop
- Frequently inspect for improper operation. Do not use if repair or adjustment is necessary.
- Keep motor away from acid and alkali.
- Do not force the motor to drive.
- Keep clear when in operation.

Rollease Acmeda declares this equipment is in compliance with the essential requirements and other relevant provisions of R&TT EC Directive 1999/5/EC

Statement Regarding 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.
Note:
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.

Statement Regarding IC Compliance

1. This device complies with Industry Canada 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.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

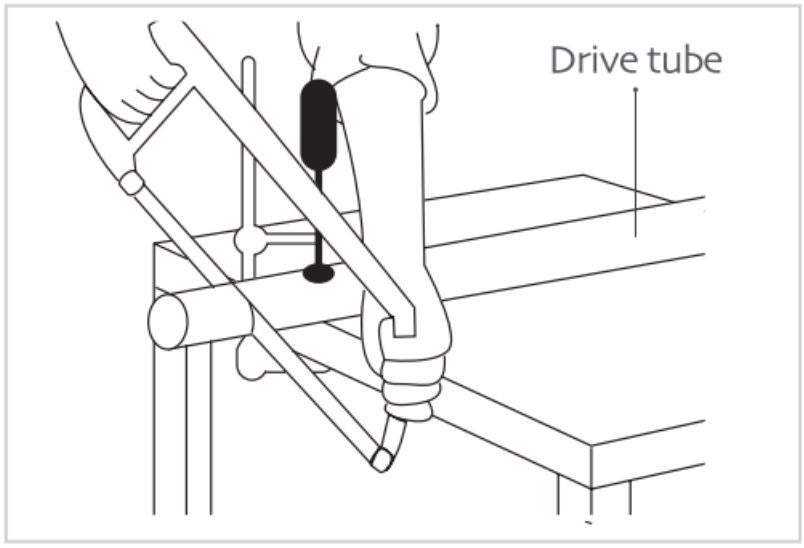
Do not dispose of in the general waste. Please recycle batteries and damaged electrical products appropriately.

ASSEMBLY

Please refer to Rollease Acmeda System Assembly Manual for full assembly instructions relevant to the hardware

system being used, including recommended crown, drive and bracket adapter kits.

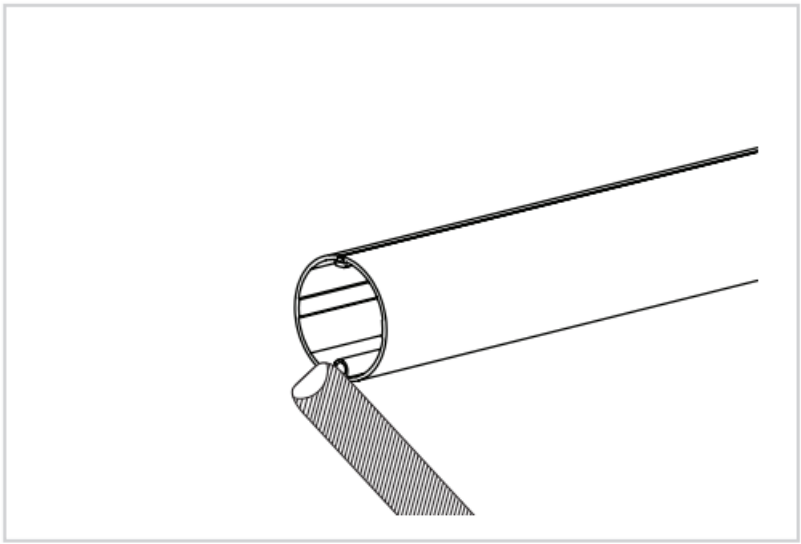
Step 1. Cut roller tube to the required length.



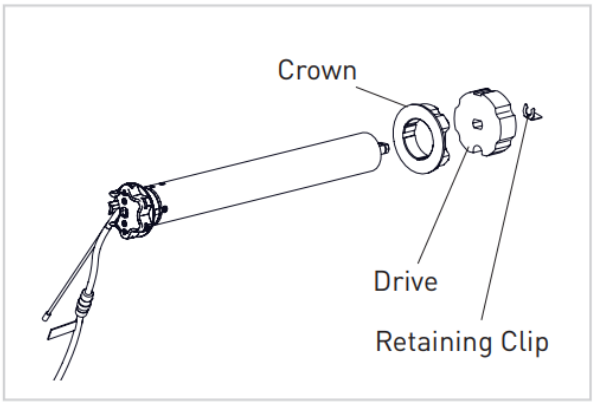
IMPORTANT

Impact detection does not require a 2 piece drive set. The use of a standard 1 part drive adapter is compatible. Zipscreen is needed to let the impact transmit to the top during downward movement. The top tube must be able to freely rotate ~ 5 degrees after installation.

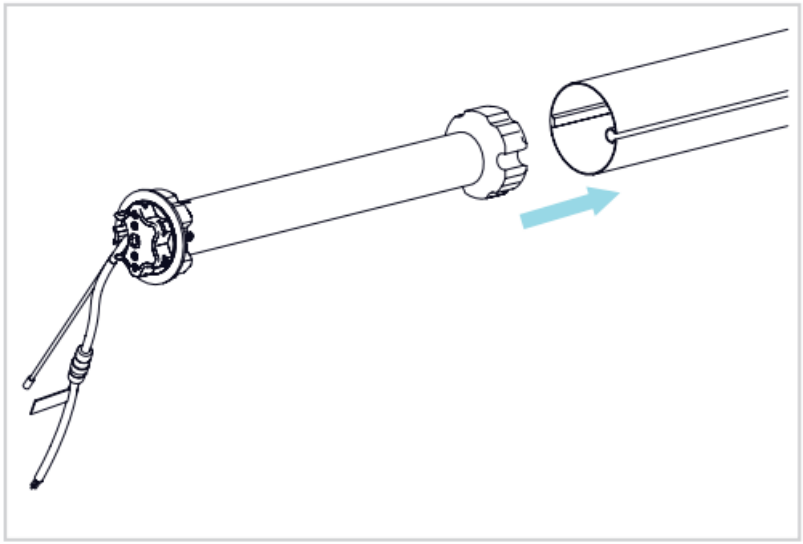
Step 2. Ensure the roller tube is clean and free from burrs.



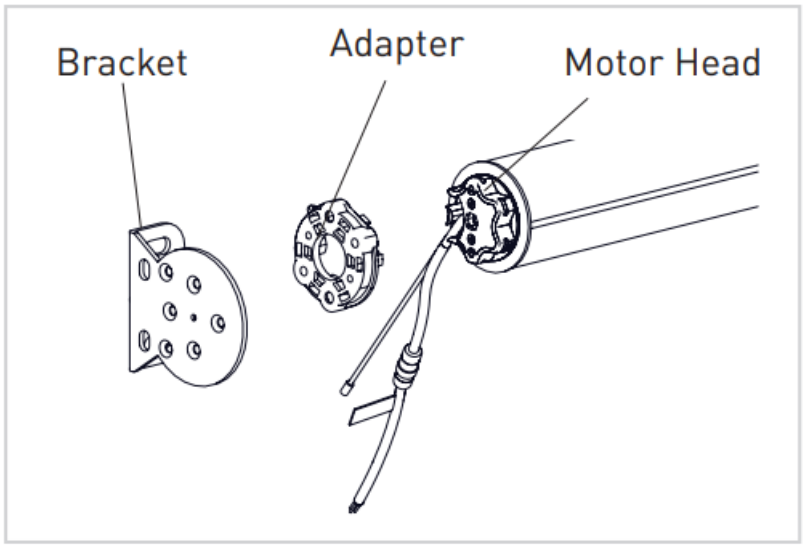
Step 3. Fit required crown, drive, and bracket adapters. The tube must be close fitting with chosen crown and drive adapters.



Step 4. Slide Motor into the tube. Insert by aligning the key-way in the crown and drive the wheel into the tube.



Step 5. Mount motorized tube onto brackets.

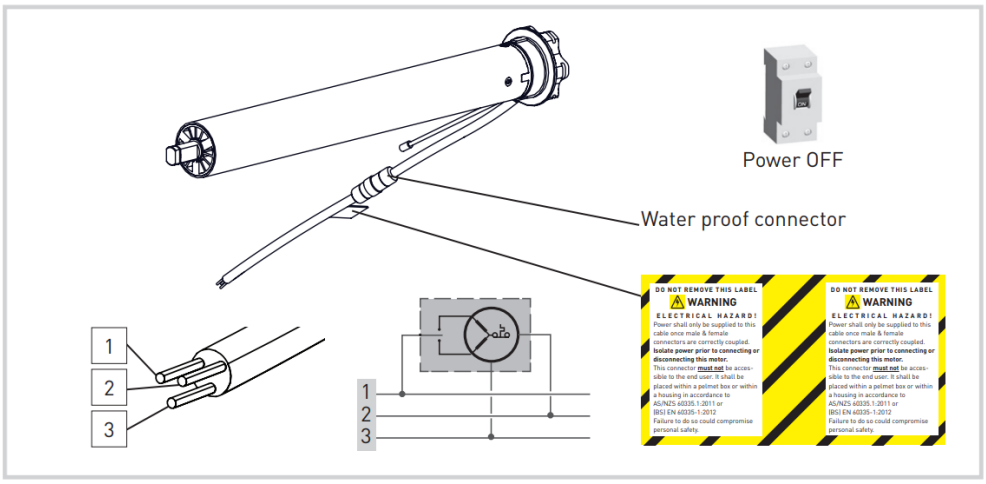


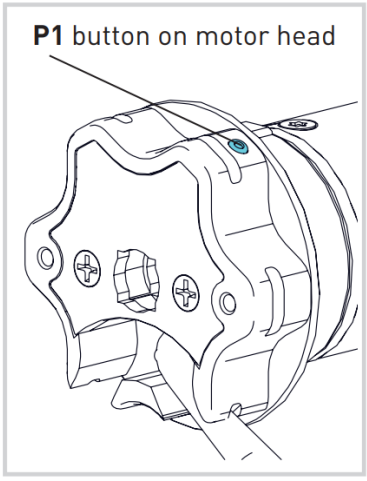
WIRING

2.1 EU/AU Motor

Disconnect the mains' power supply.
Connect the motor according to the information in the table below.

Ensure the cable is kept clear of fabric.
Ensure the antenna is kept straight and away from metal objects.

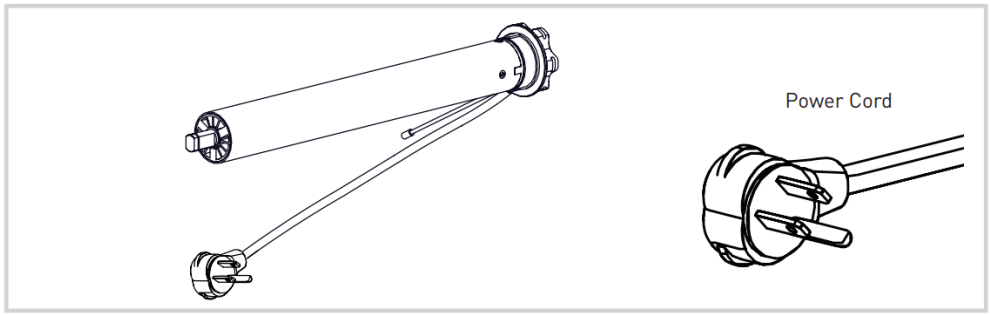


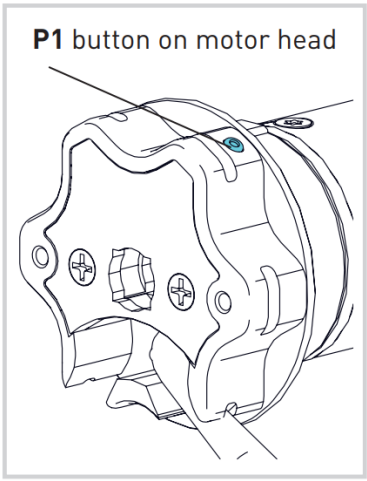


MOTOR	POWER	NEUTRAL	LIVE	EARTH	REGION
MT01-1145-069014	230V AC 50Hz	Blue	Brown	Yellow/Green	EU
MT01-1145-069016					
MT01-1145-069013	240V AC 50Hz				AU
MT01-1145-069015					

2.2 US Motor

Ensure the cable is kept clear of fabric.
Ensure the antenna is kept straight and away from metal objects.



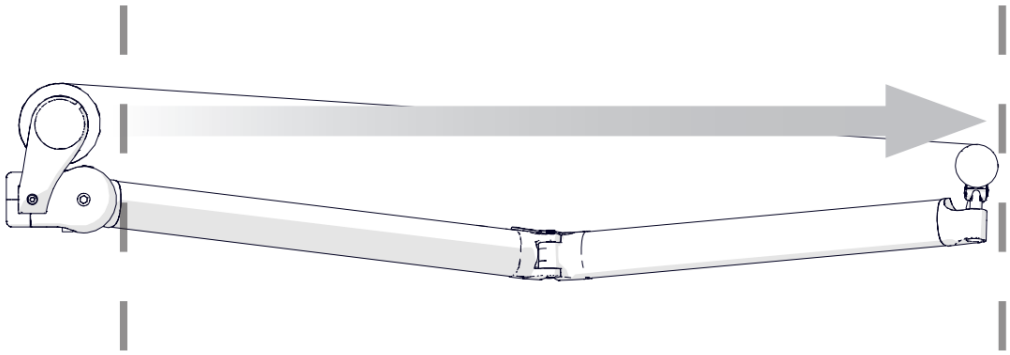


MOTOR	POWER CORD LENGTH	POWER	NEUTRAL	LIVE	EARTH
MT01-1145-069017	240in. (6096mm)	120V AC 60Hz	White	Black	Green
MT01-1145-069018					

2.3 SELECTABLE MODES

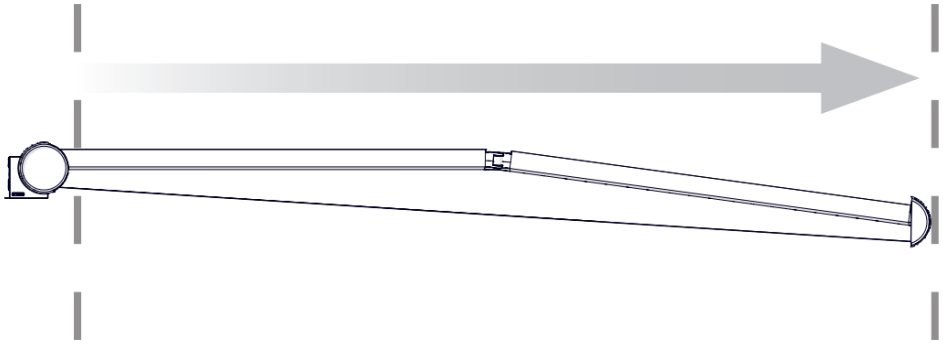
FOLDING ARM AWNING – OPEN SYSTEM

Set Top and Bottom Limits Manually



FOLDING ARM AWNING – CASSETTE SYSTEM

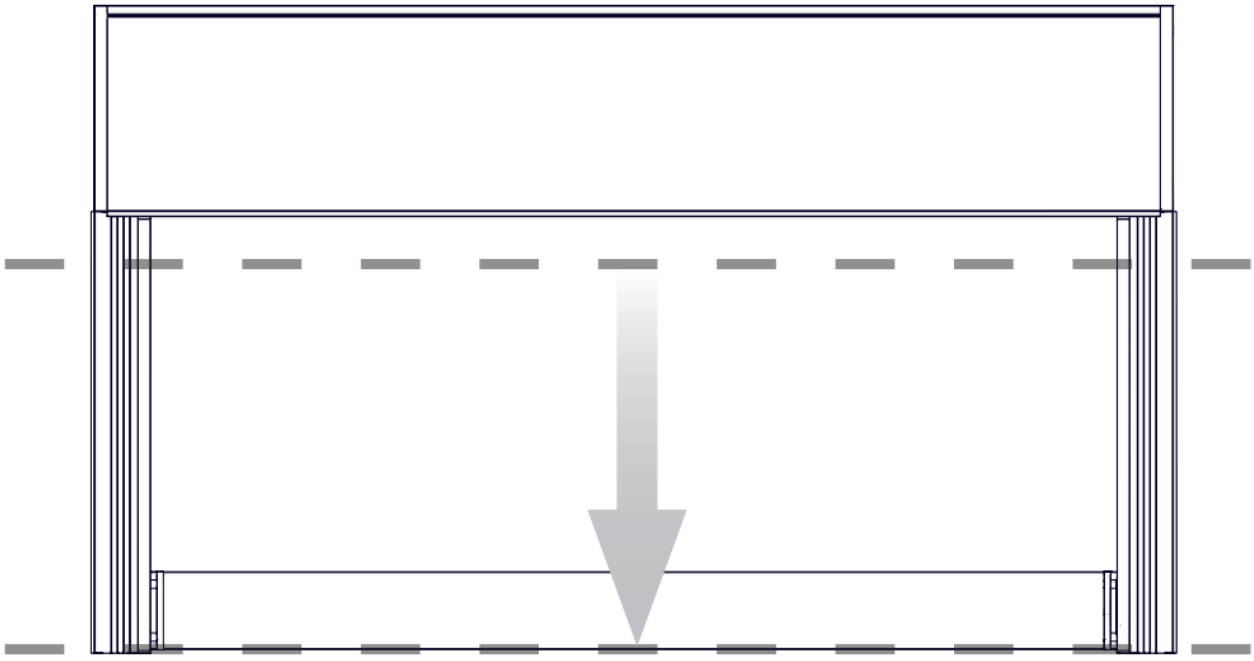
Set Bottom limit and Top limit is set automatically



VERTICAL DROP MODE

Set Top and Bottom Limits Manually

Impact Detection can be turned on – Refer to section 6.4 for impact detection.



P1 BUTTON FUNCTIONS

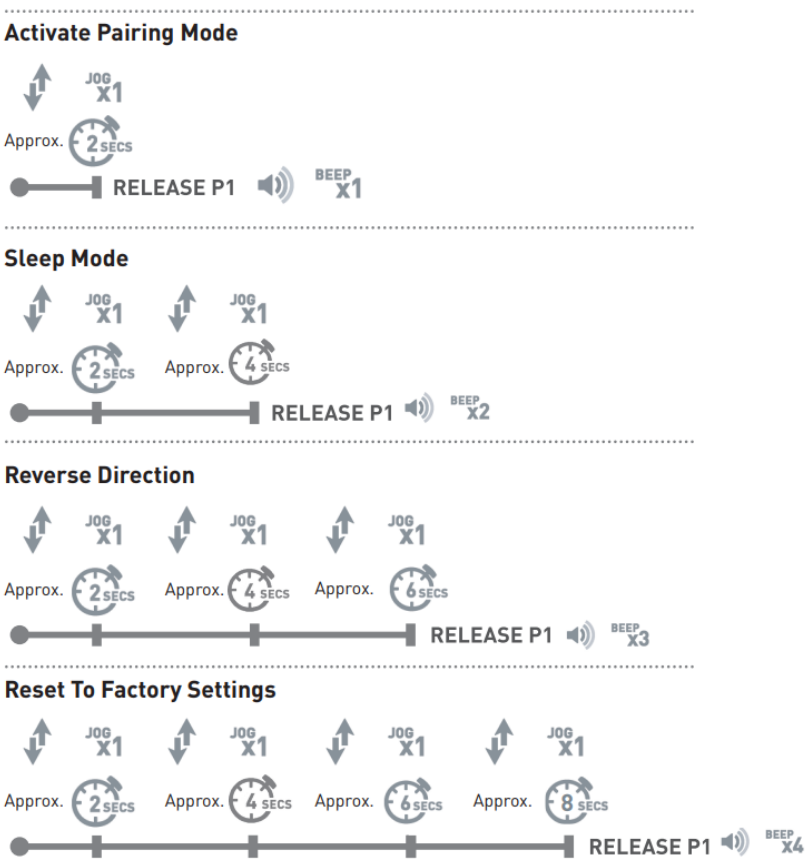
3.1 Motor state test

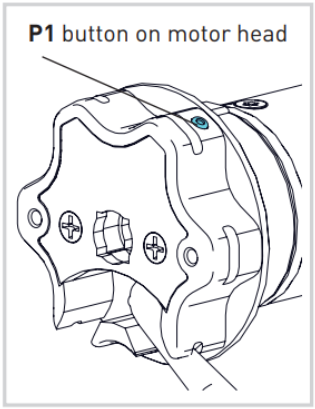
This table describes the function of a short P1 Button press/release (<2 seconds) depending on the current motor configuration.

P1 Press	Condition	Function Achieved	Visual Feedback	Audible Feedback	Function Described
Short Press	If the 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 the motor after pairing and limit setting is completed the first time
	If the motor is in "Sleep Mode" & limits are set	Wake and control	Motor wakes and runs in a direction	None	The motor is restored from Sleep Mode and RF control is active

3.2 Motor configuration options

The P1 Button is utilized to administer motor configurations as described below.
Hold the P1 button on the motor head.



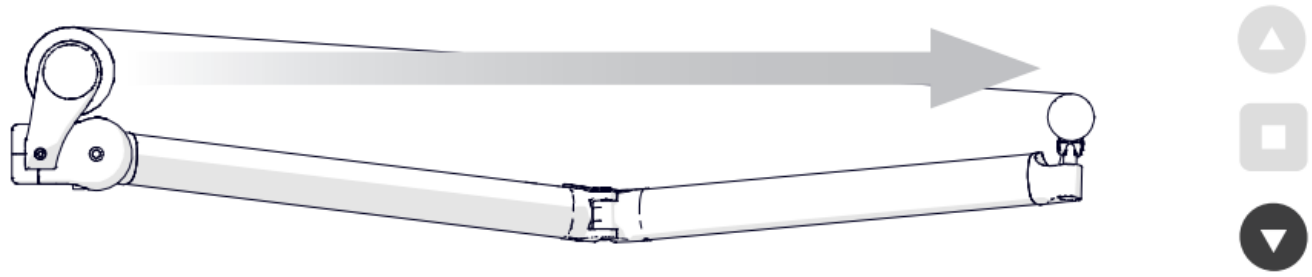


FOLDING ARM AWNING – OPEN SYSTEM

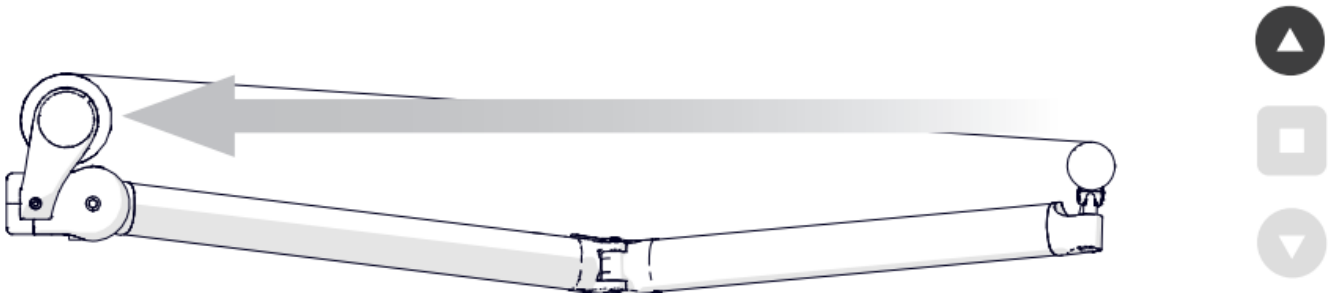
Note: For Cassette Mode refer to section 5 and for Vertical Drop Mode refer to section 6.

4.1 AWNING DIRECTION

Note: Ensure Motor is in factory default setting.
Confirm that the awning direction is set up as below so any paired sensors will activate correctly.
DOWN on the remote OPENS the Awning (awning moves in an outward direction).
E.g.

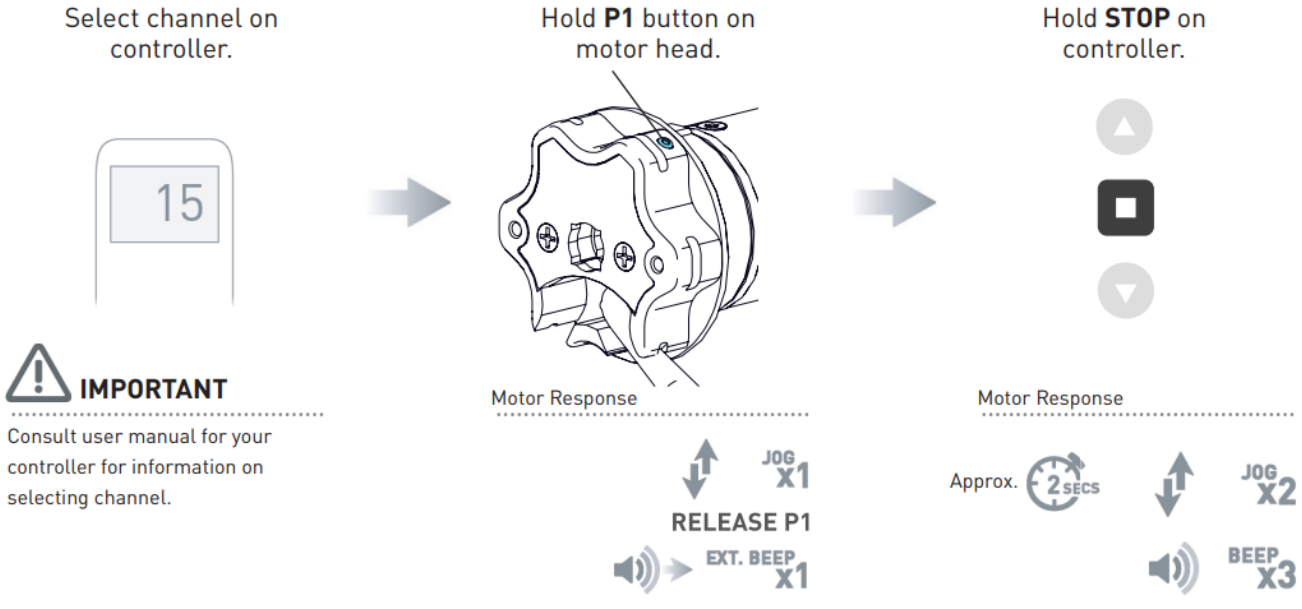


And UP on the remote CLOSES the Awning (awning moves in an inward direction).
E.g.



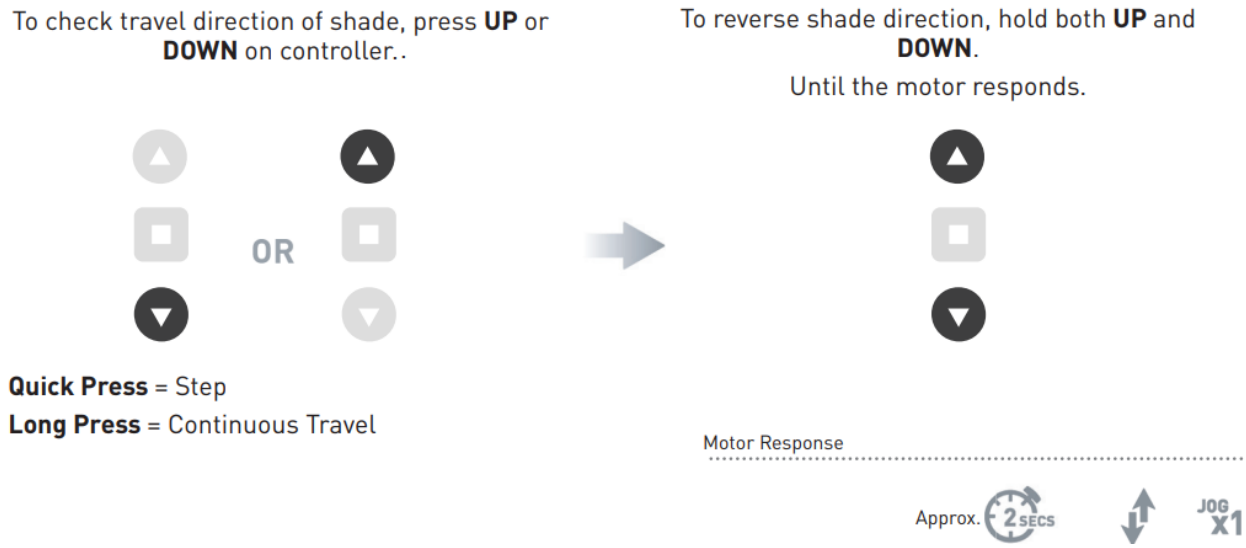
4.2 Initial Setup

4.2.1 Pair motor with controller



The motor is now in step mode and ready for setting limits

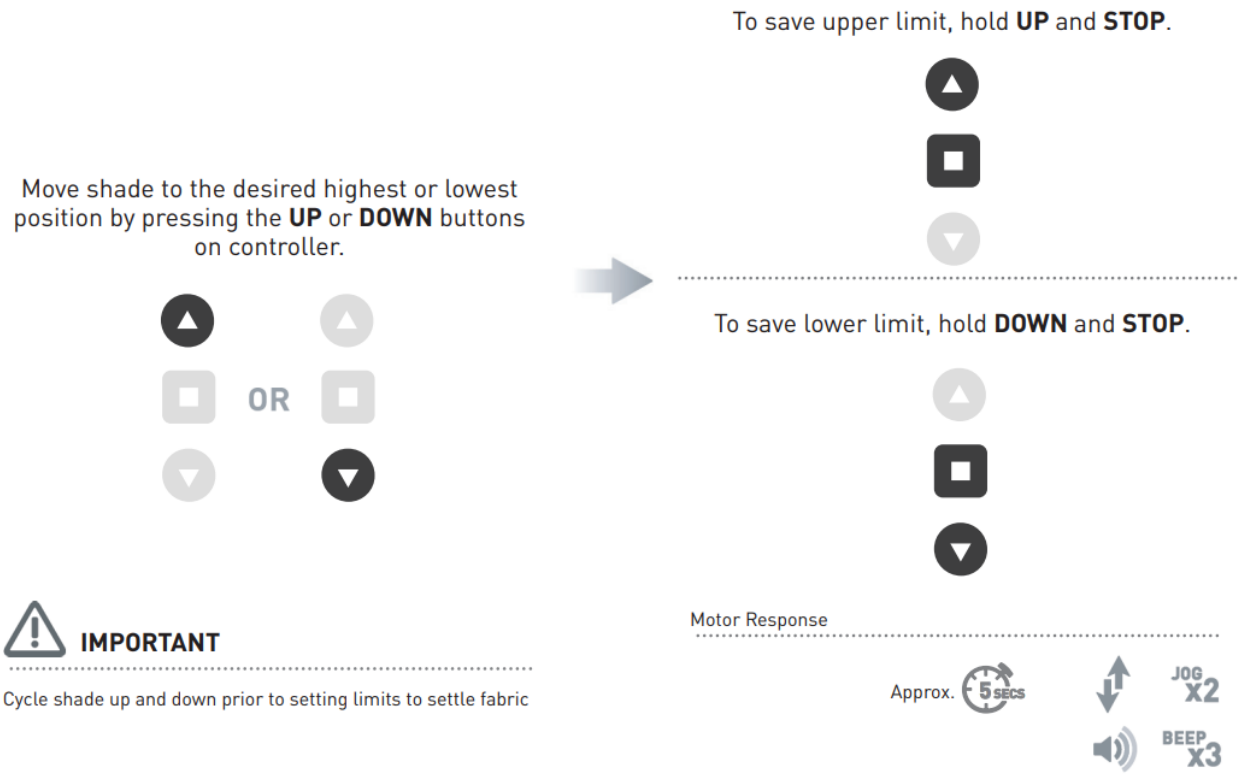
4.2.2 Check motor direction



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

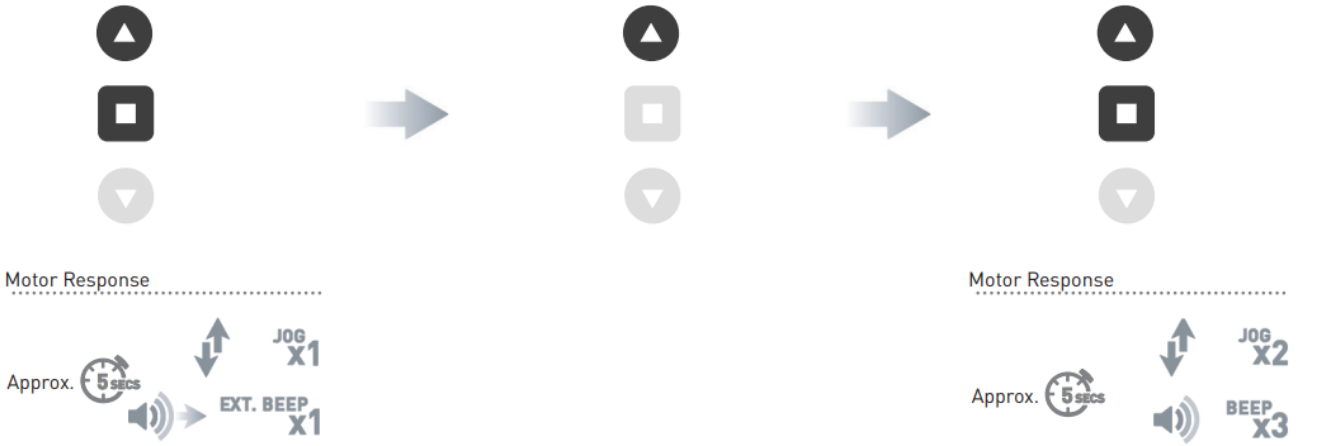
IMPORTANT
Reversing motor direction using this method is only possible during initial set-up

4.3 Set Limits

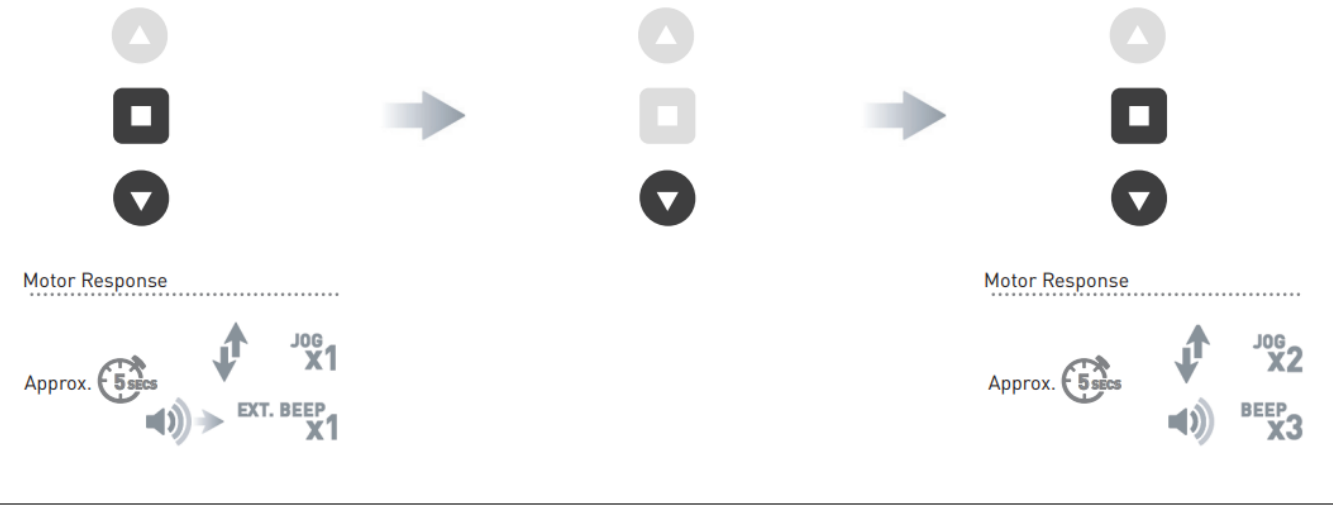


IMPORTANT
After setting limits, the motor will automatically exit from the initial set-up mode.

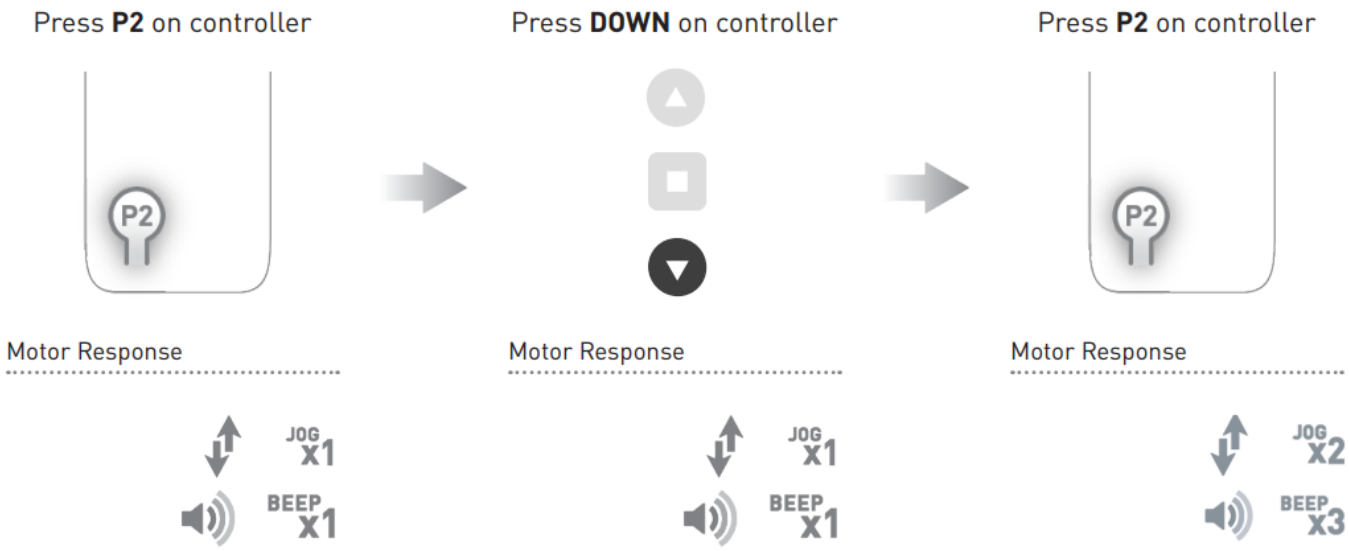
4.4 Adjust Upper Limit

Hold UP and STOP on the controller.	Move shade to the desired highest position by pressing the UP button.	To save the upper limit, hold UP and STOP.
		

4.5 Adjust lower limit

Hold DOWN and STOP on the controller.	Move shade to the desired lowest position by pressing the DOWN button.	To save lower limit, hold DOWN and STOP.
		

4.6 Delete Upper/Lower Limits

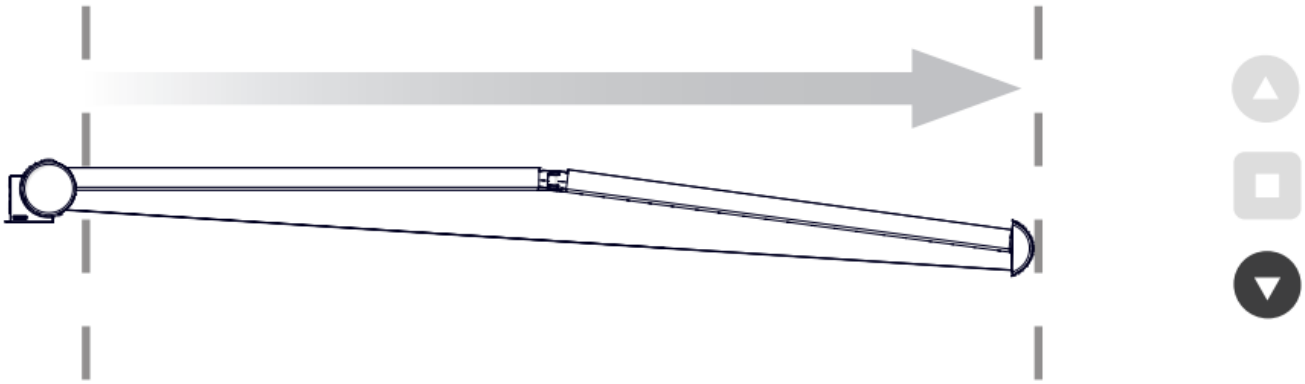


FOLDING ARM AWNING – CASSETTE SYSTEM

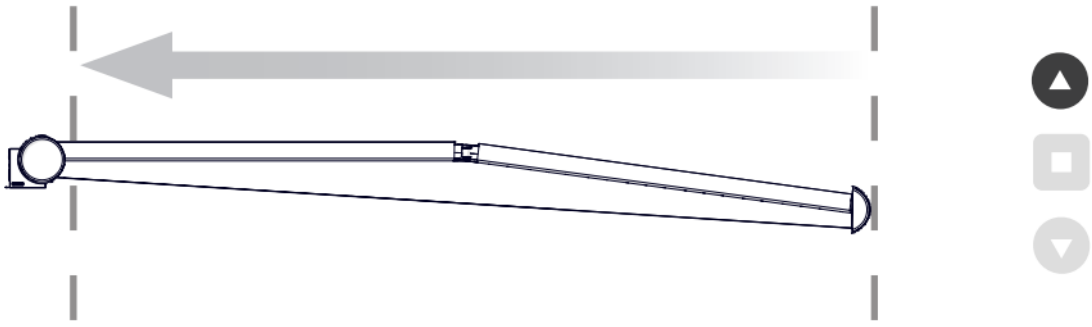
Note: For Non-Cassette Open Mode refer to section 4 and for Vertical Drop Mode refer to section 6.

5.1 AWNING DIRECTION

Note: Ensure Motor is in factory default setting.
Confirm that the awning direction is set up as below so any paired sensors will activate correctly.
DOWN on the remote OPENS the Awning (awning moves in an outward direction).
E.g.

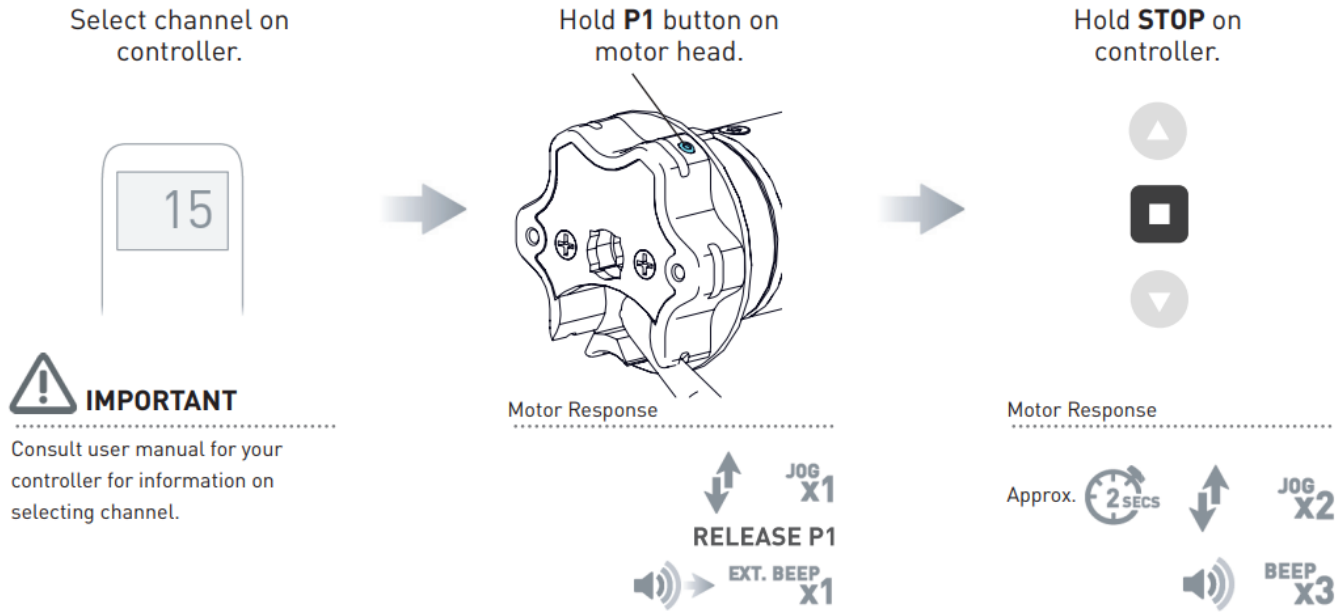


And UP on the remote CLOSES the Awning (awning moves in an inward direction).
E.g.



5.2 Initial Setup

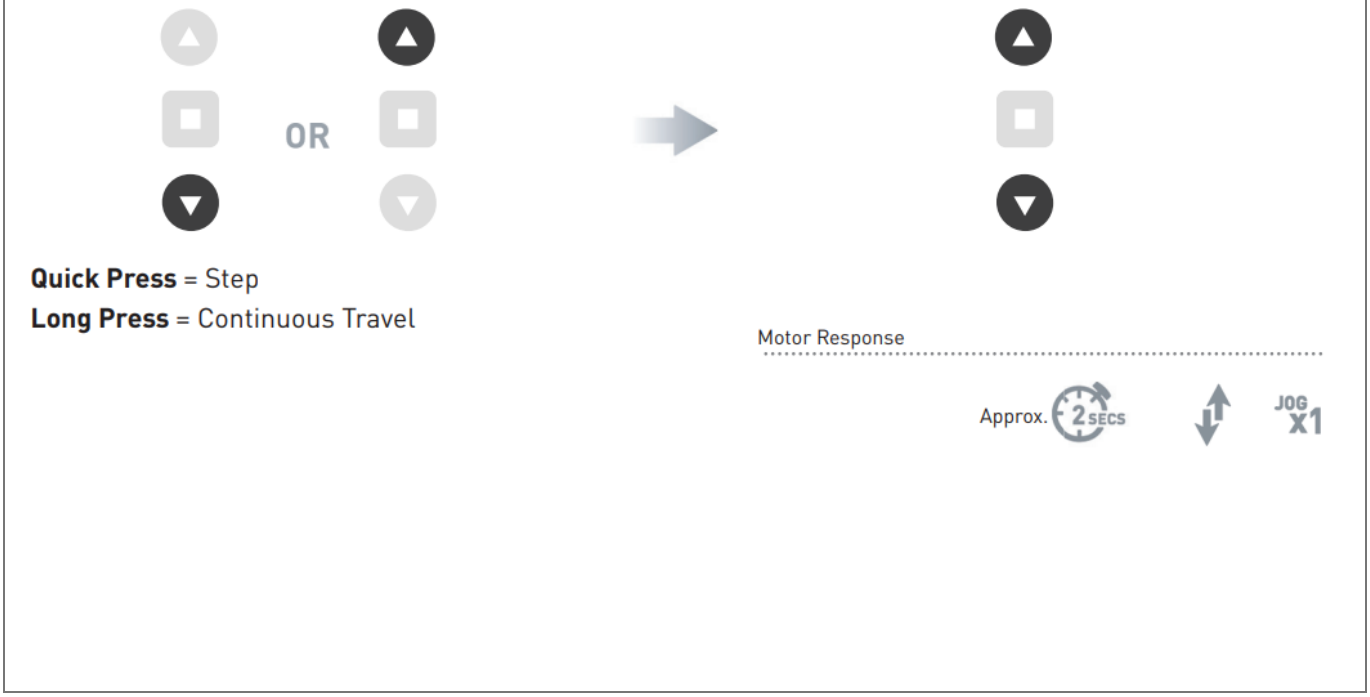
5.2.1 Pair motor with controller



Motor is now in step mode and ready for setting limits

5.2.2 Check motor direction

To check the travel direction of the shade, press UP or DOWN on the controller.	To reverse shade direction, hold both UP and DOWN. Until the motor responds.



IMPORTANT

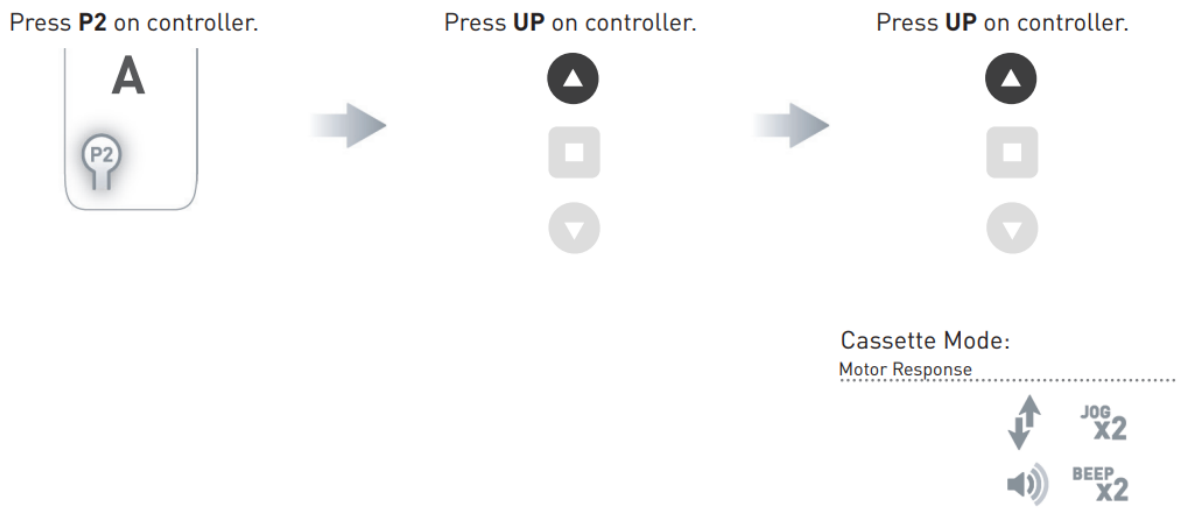
Damage to shade may occur when operating motor prior to setting limits. Attention should be given.

IMPORTANT

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

5.3 Select Motor Mode

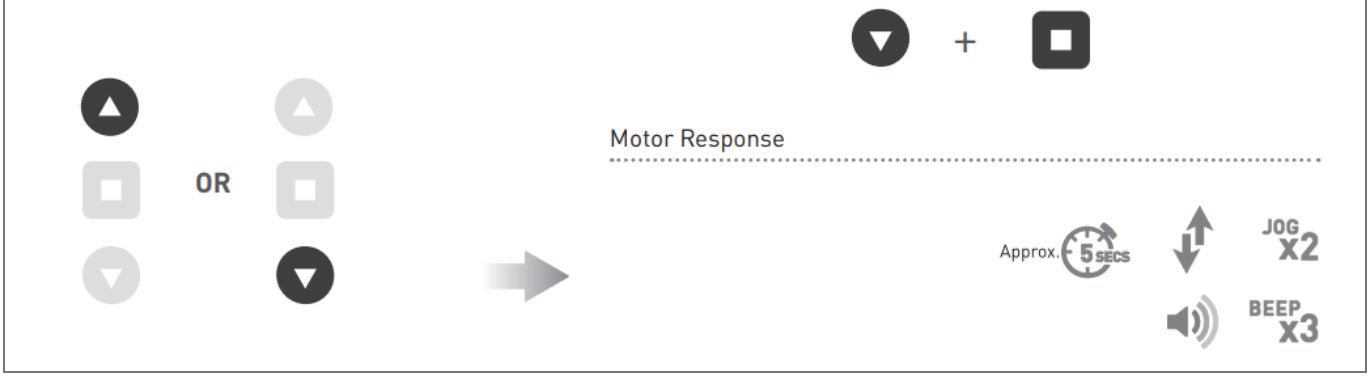
Now set the motor to cassette mode.



5.4 Set Limits

SET LOWER LIMIT IN CASSETTE MODE

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



SET UPPER LIMIT IN CASSETTE MODE

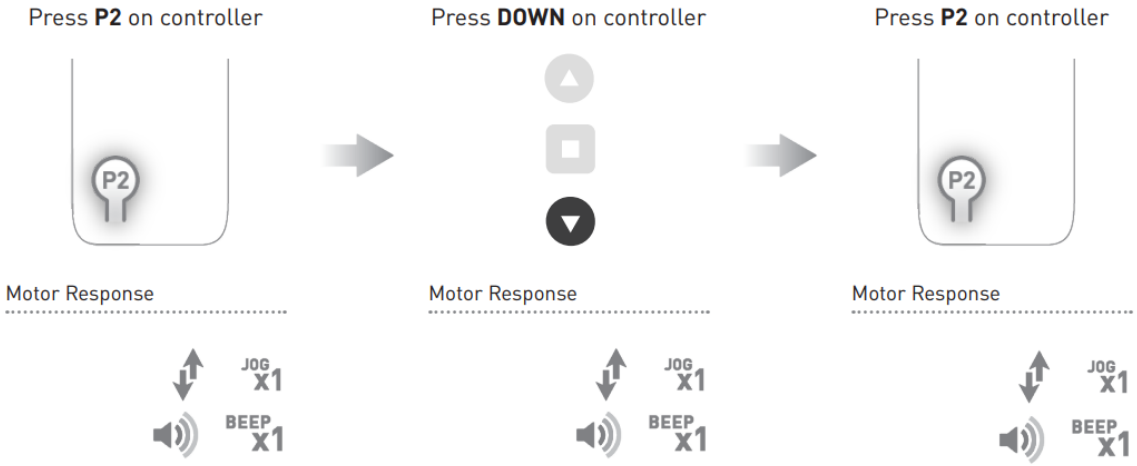
Move shade to the highest position by pressing the UP button on the controller. The upper limit will be automatically set when the motor stops.*

Note:

*On condition that a lower limit has been set prior.

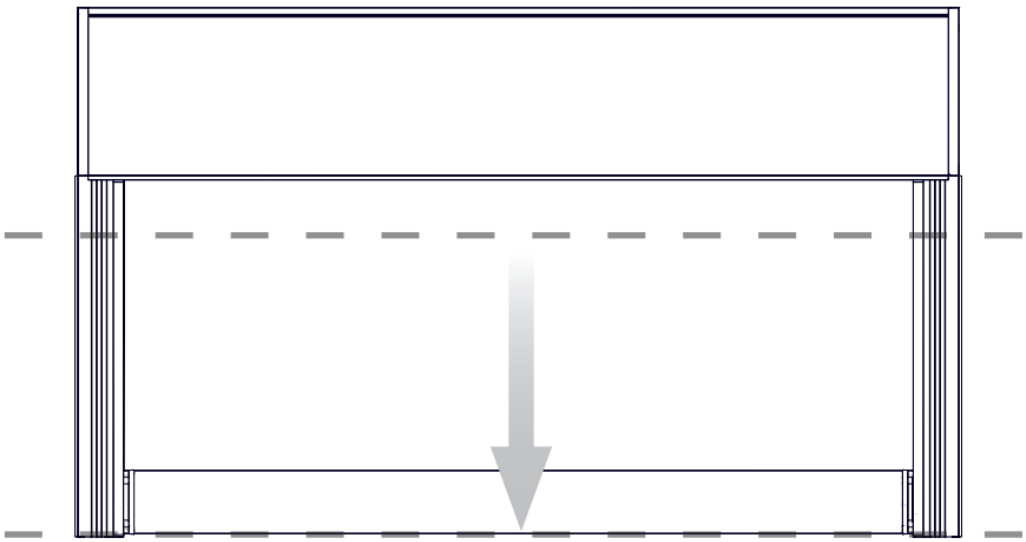
5.5 Delete Upper/Lower Limits

Move shade to Upper/Lower Limits



VERTICAL DROP MODE

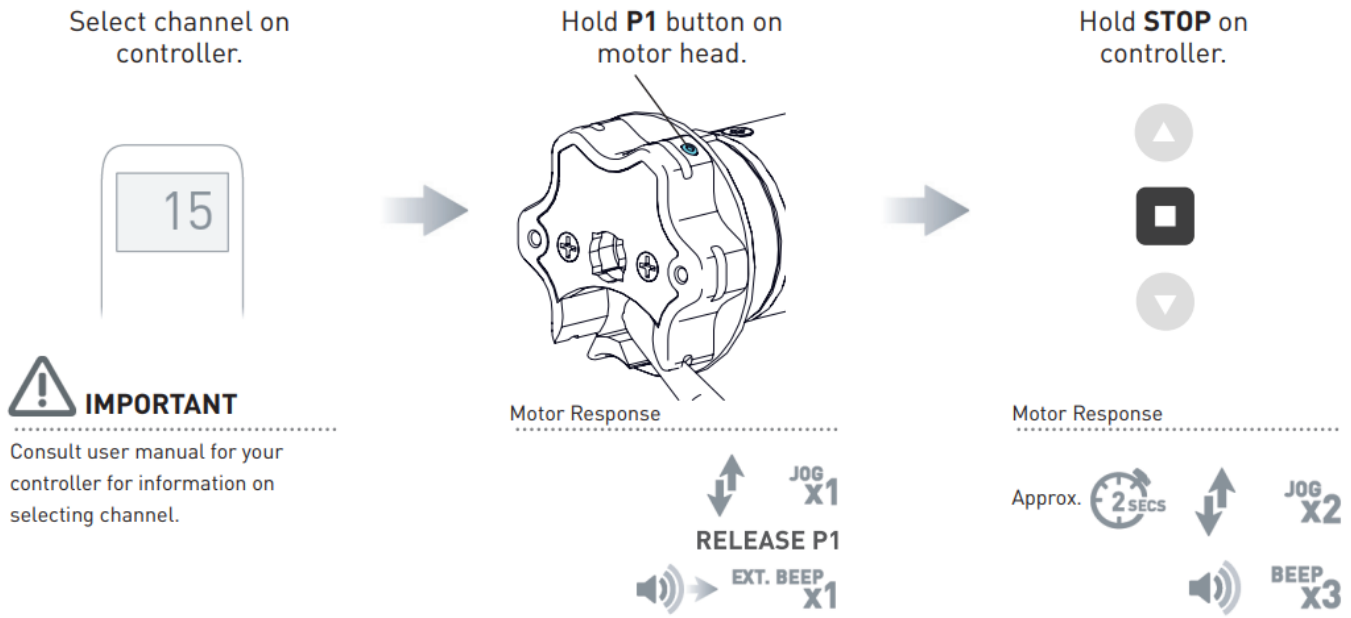
Note: For Non-Cassette Open Mode refer to Section 4 and for Cassette Mode refer to section 5.
Set Top and Bottom Limits Manually
Impact Detection can be turned on – Refer to section 6.4 for impact detection.



6.1 Initial Setup

6.1.1 Pair motor with controller

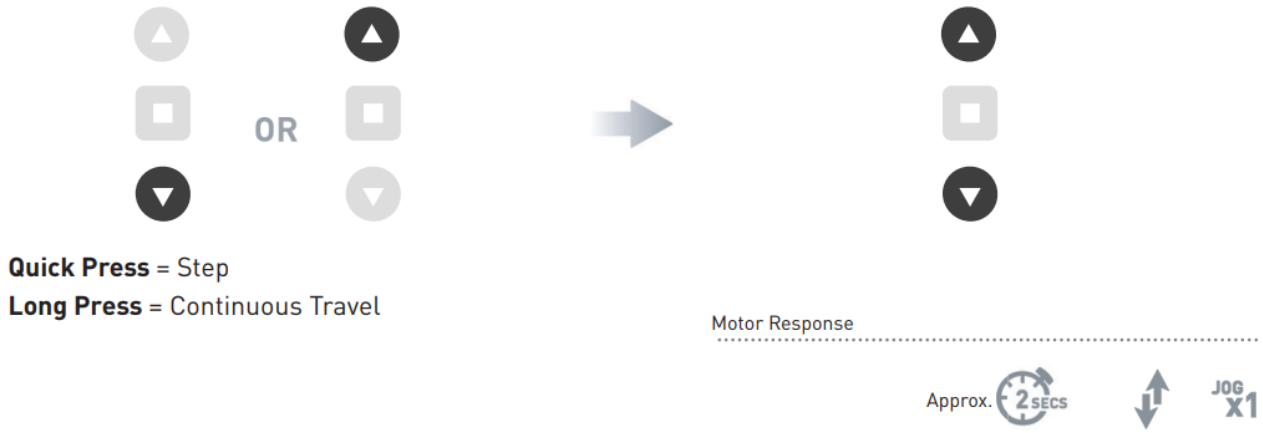
Note: Ensure Motor is in factory default setting.



Motor is now in step mode and ready for setting limits

6.1.2 Check motor direction

To check the travel direction of the shade, press UP or DOWN on the controller.	To reverse shade direction, hold both UP and DOWN. Until the motor responds.



IMPORTANT

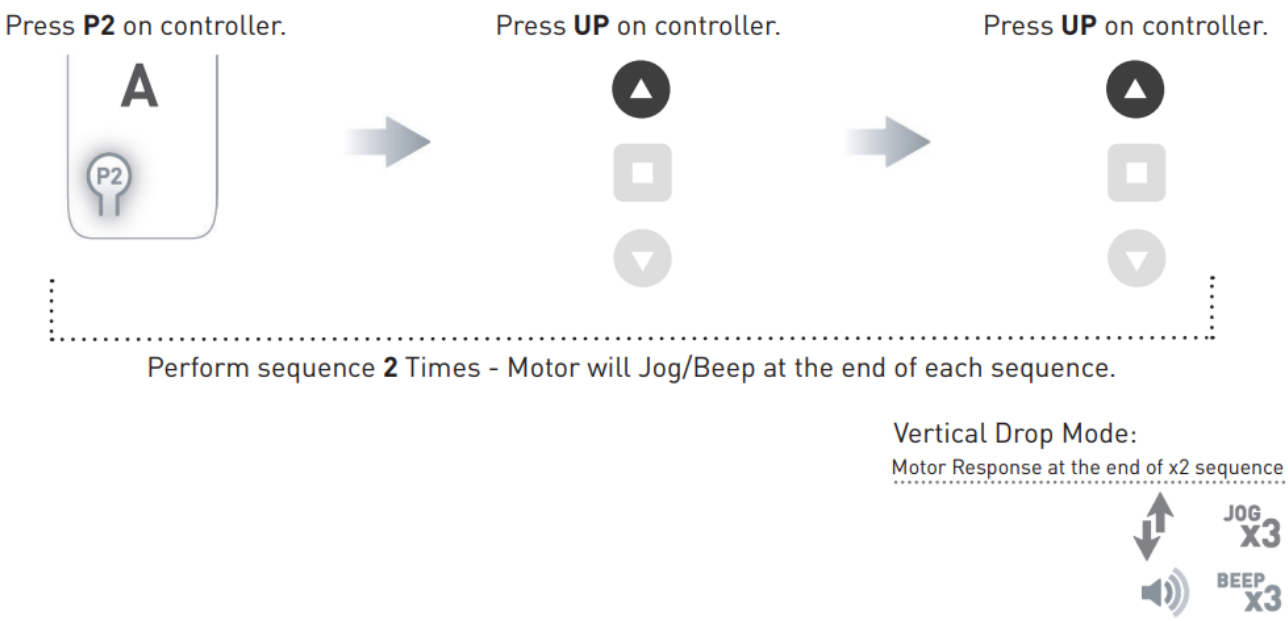
Damage to shade may occur when operating the motor prior to setting limits. Attention should be given.

IMPORTANT

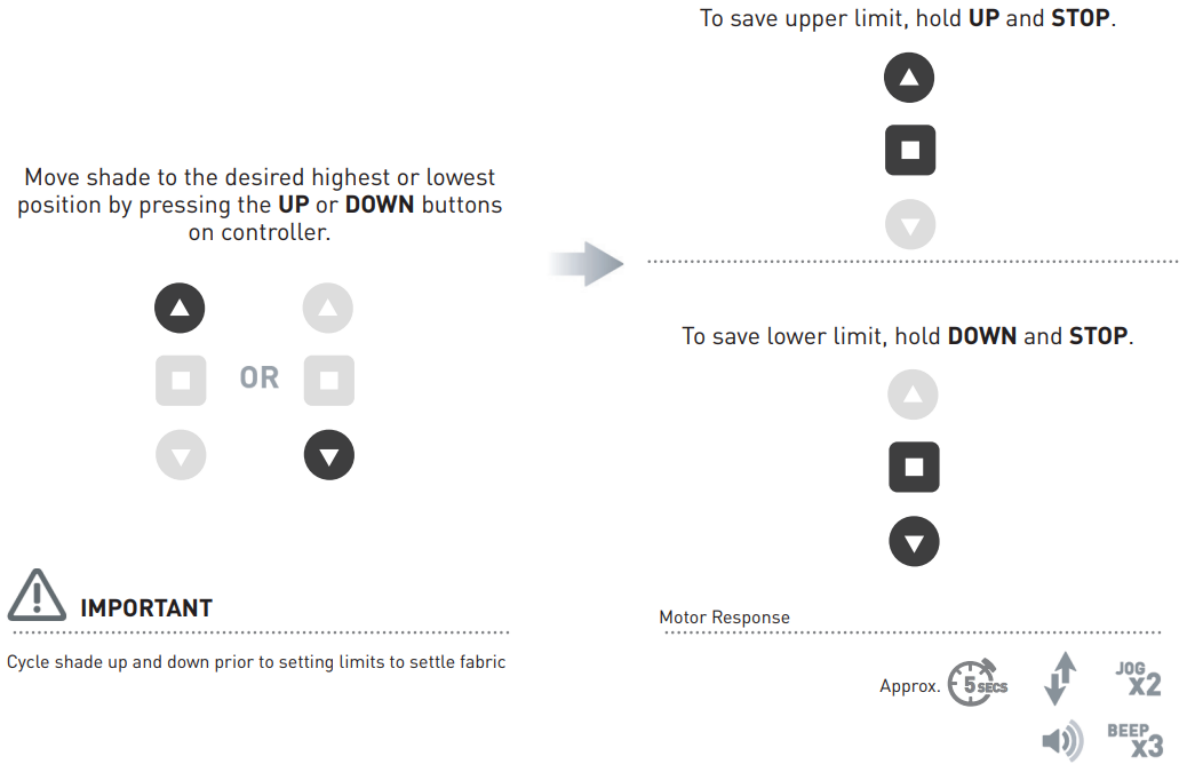
Reversing motor direction using this method is only possible during initial set-up

6.2 Select Motor Mode

Now set vertical drop mode.



6.3 Set Limits



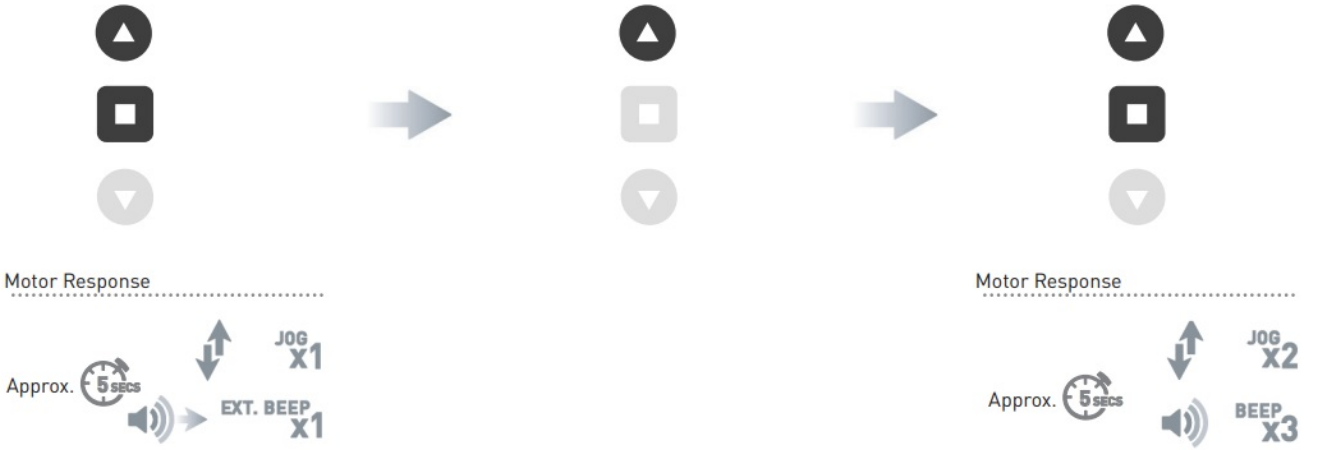
⚠ The initial set-up is not complete

⚠ **IMPORTANT**

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

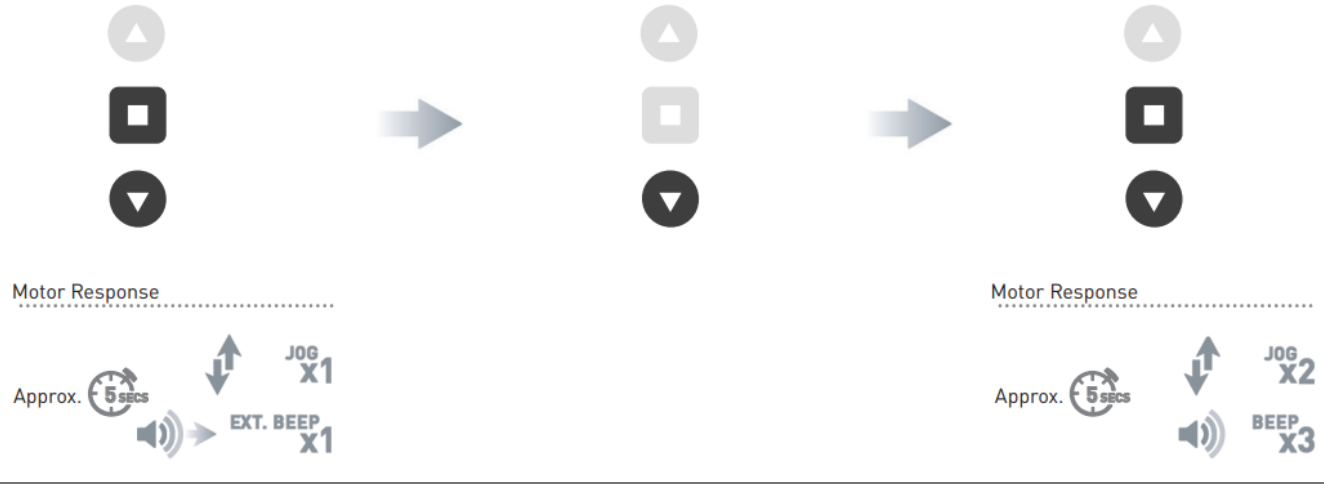
6.3.1 Adjust upper limit

Hold UP and STOP on the controlle r.	Move shade to the desired highest position by pressing the UP button.	To save the upper limit, hold UP and STOP.



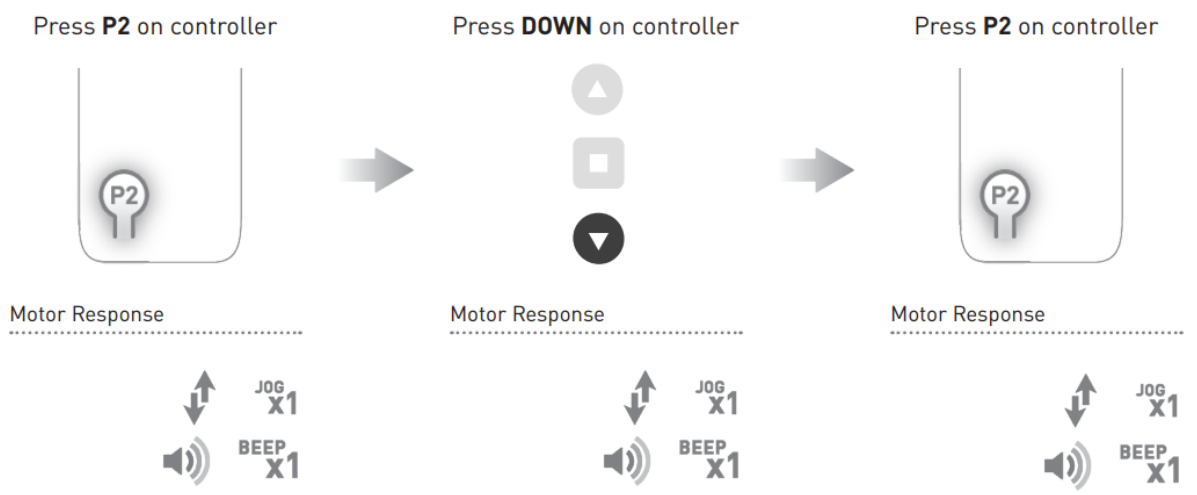
6.3.2 Adjust lower limit

Hold DOWN and STOP on the cont roller.	Move shade to the desired lowest p osition by pressing the DOWN butt on.	To save lower the limit, hold DOWN , and STOP.



6.3.3 Delete Upper/Lower Limits

Move shade to Upper/Lower Limits.



6.4 Impact Detection (Only with Zipscreen)

Impact detection may be activated only in Vertical Drop mode. If an obstacle is detected twice in the shaded path during downwards movement, the motor lifts the shade up ~ 7.87in. (20cm).

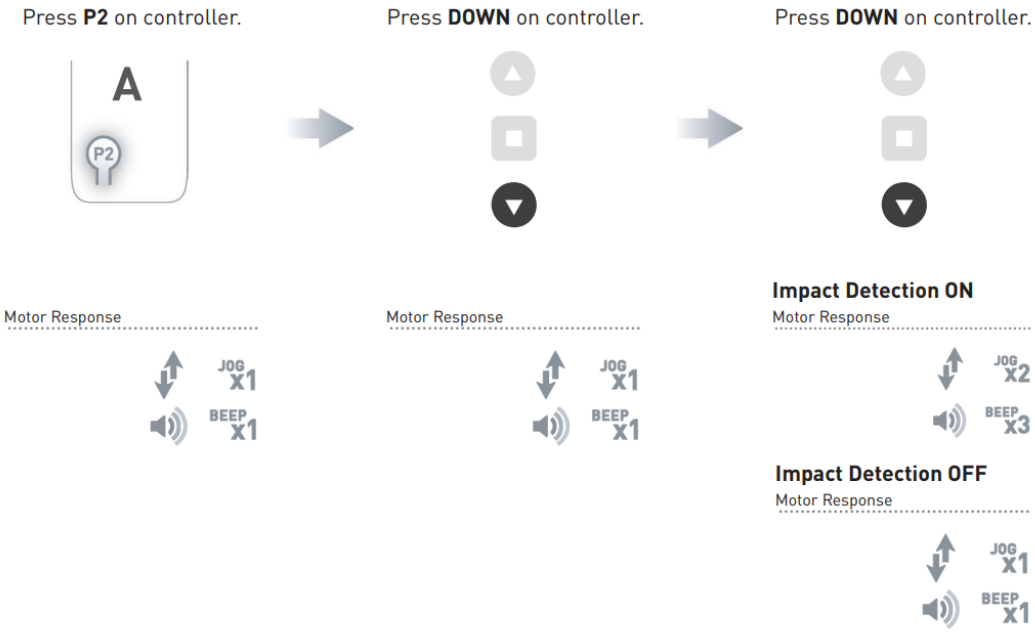
Top limit

Inactive zone of impact detection	300 degrees x TUBE DIAMETER
The active zone of impact detection ⚠	Impact detection does not require a 2 piece drive set. Th e use of a standard 1 part drive adapter is compatible.
Inactive zone of impact detection	300 degrees x TUBE DIAMETER

Bottom limit

6.4.1 Active/Deactivate Impact Detection Mode

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



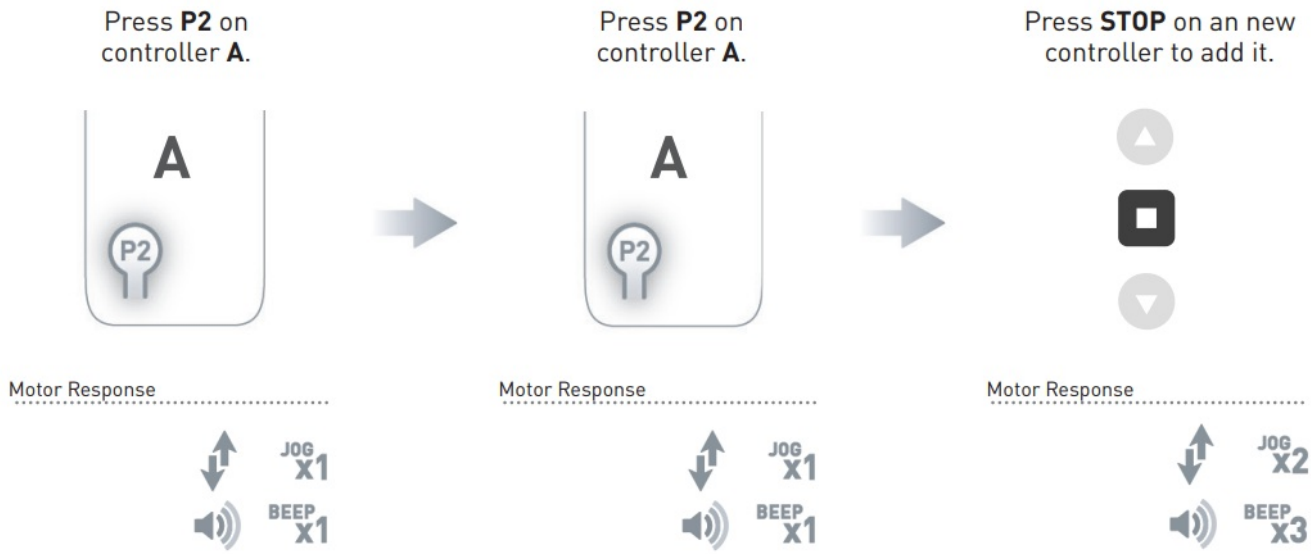
⚠ **IMPORTANT**

Impact detection does not require a 2 piece drive set. The use of a standard 1 part drive adapter is compatible. The top tube must be able to freely rotate ~ 5 degrees after installation. Zipscreen is needed to let the impact transmit to the top during downward movement.

ADD CONTROLLER AND CHANNEL

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

A = Existing controller or channel (to keep)
B = Controller or channel to add or remove

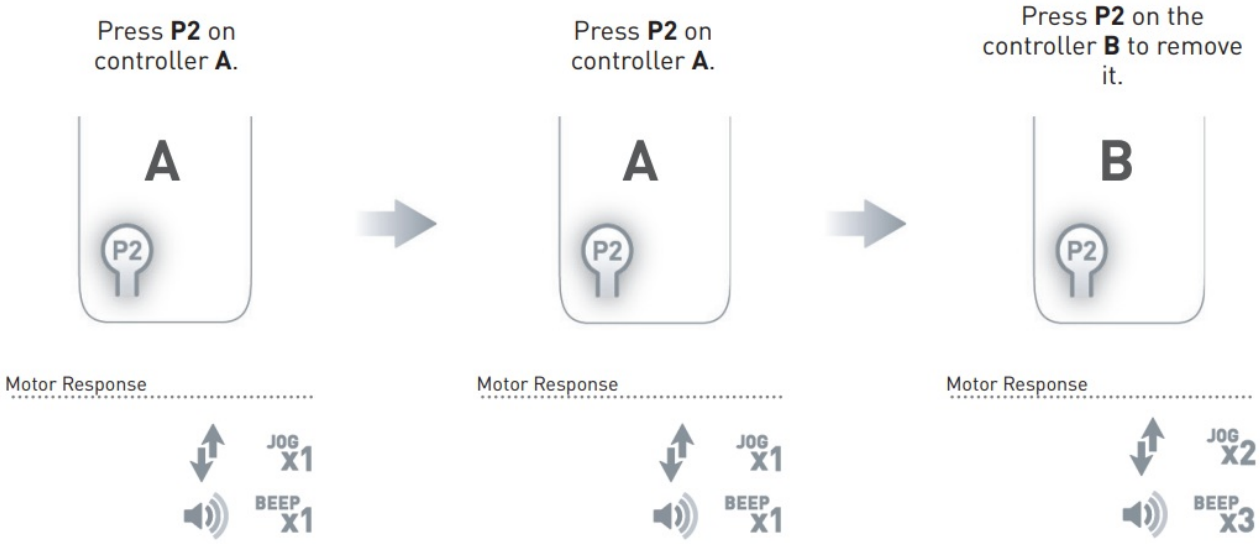


IMPORTANT Consult user manual for your controller or sensor

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



IMPORTANT Consult user manual for your controller or sensor

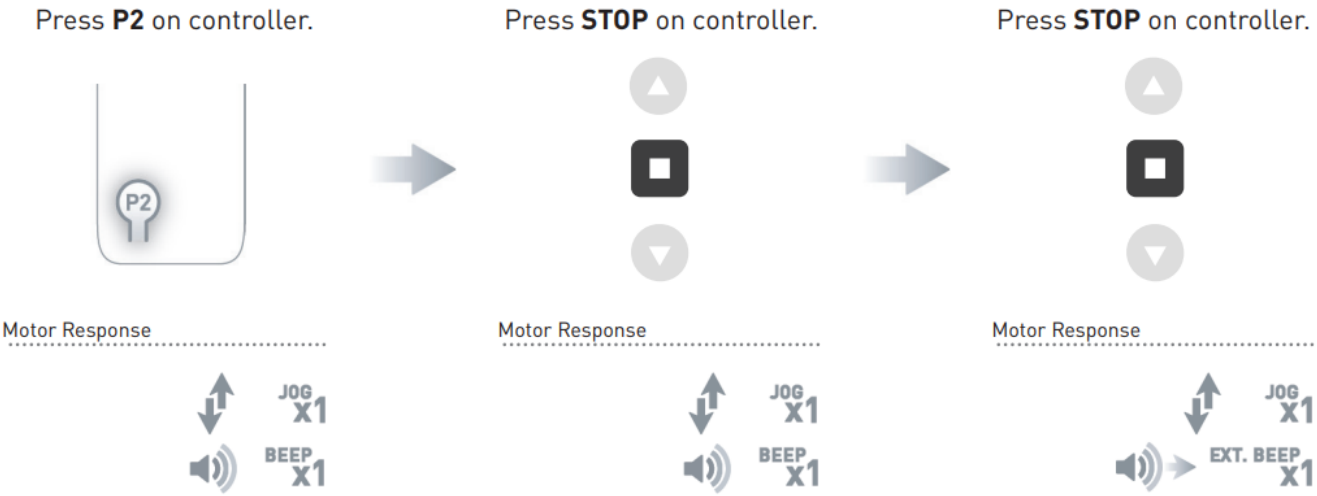
FAVORITE POSITIONING

8.1 Set a favorite position

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

8.2 Send shade to favorite position

8.3 Delete favorite position

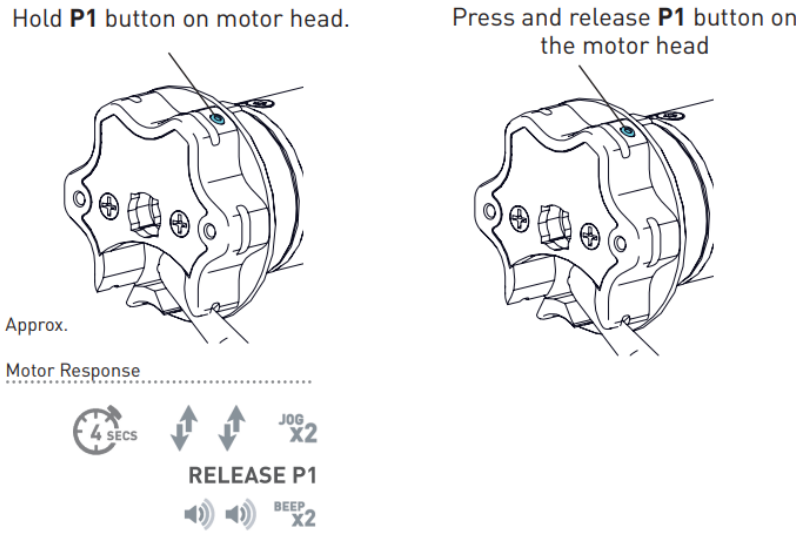


SLEEP MODE

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 another motor setup.
Exit Sleep Mode: Method 1
Exit sleep mode once the shade is ready.
Exit Sleep Mode: Method 2
Remove power and then re-power the motor.

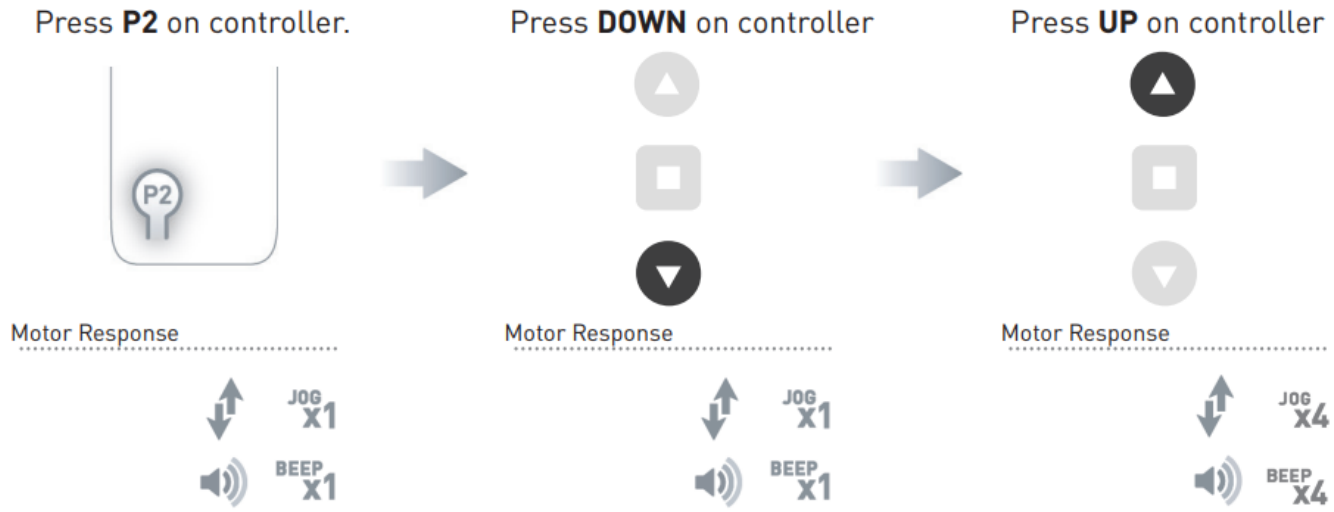


WIND SENSOR FUNCTION

10.1 Wind Sensor Prioritize Function

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 function 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 the 8 minutes.

RESET TO FACTORY SETTINGS VIA REMOTE



TROUBLESHOOTING

Problem	Cause	Remedy
The motor is not responding	A/C power supply not plugged in.	Check the motor to the power cable connect ion and AC plug
	The transmitter battery is discharged	Replace battery
	Radio interference/shielding	Ensure the transmitter is positioned away fr om metal objects and the aerial on motor or receiver is kept straight a nd away from metal
	The receiver distance is to far from the transmitter	Move transmitter to a closer position
	Power failure	Check the power supply to the motor is con nected and active
	Incorrect wiring	Check that wiring is connected correctly (ref er to motor installation instructions)
Cannot program a single Motor (multiple motors respond)	Multiple motors are paired to t he same channel	Always reserve an individual channel for pr ogramming functions
		SYSTEM BEST PRACTICE – Provide an ext ra 15-channel controller in your multi-motor projects, that provide indivi dual control for each motor for programming purposes
		Place all other motors into sleep mode (refer to P1 button function overview – Section 3)

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Documents / Resources

	Automate AX30 EXTERNAL SHADE MOTOR [pdf] User Manual AX30 EXTERNAL SHADE MOTOR, AX30, EXTERNAL SHADE MOTOR, SHADE MOTOR, AX 50