

Programming Manual

ARC Drapery Motor



433 MHz
Bi-Directional



Quiet
Operation



Electronic
Limit



Selectable
Speed



Favorite
Position



Automate Radio
Communication



Soft
Touch

The AUTOMATE® | ARC drapery motor is compatible with popular drapery track systems for easy incorporation of draperies into the ARC motorized platform. The Soft Touch feature enables manual operation when needed.

Leveling Control allows for precise positioning of individual or multiple drapes ensuring perfect alignment every time.

Additionally, a favorite position can be preset and recalled at any time.

Key Features

- Electronic Torque sensing "AutoSet" Limits
- 433 MHz Bi-Directional RF Communication
- Leveling Control
- Favorite Position
- Soft start / stop
- Soft touch control
- Speed Control
- Top exit option for power cord

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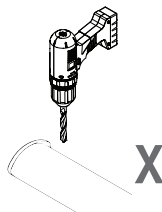
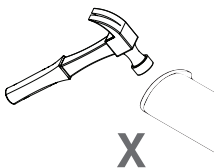
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1. Safety Instructions

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 people to follow the enclosed instructions. Save these instructions for future reference.



- 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.
- Installation and programming to be performed by a suitably qualified installer.
- For use within curtains and drapes.
- Use only with Rollease Acmeda hardware.
- Before installation, remove any unnecessary cords and disable any equipment not needed for powered operation.
- Ensure torque and operating time is compatible with end application.
- Do not expose the motor to water or install in humid or damp environments.
- Motor is to be installed in vertical application only.
- Do not drill into motor body.
- The routing of cable through walls shall be protected by isolating bushes or grommets.
- Ensure power cable is clear and protected from moving parts.
- If cable or power connector is damaged do not use.
- Ensure all mechanical connections are secure.
- Risk of Electric Shock. Use in dry indoor locations only.
- Do not crush, puncture, disassemble and damage.
- Do not expose to temperature above 60°C / 140°F.
- Follow installation instructions.
- This appliance can be used by children aged from 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 use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- Frequently inspect for improper operation, examine the installation for imbalance and signs of wear or damage to cables and springs.
- Do not use if repair or adjustment is necessary.
- This appliance is intended to be used to drive drapes and curtains, etc.
- Hazardous unprotected moving parts of the drive shall be installed higher than 2,5 m above the floor or other level that could provide access to it.
- Install the actuating member of a manual release at a height less than 1.8m.
- That the actuating member of a biased-off switch is to be located within direct sight of the driven part but away from moving parts. It is to be installed at a minimum height of 1,5 m and not accessible to the public.
- The mass and the dimension of the driven part shall be compatible with the rated torque and rated operating time.
- Avoid installation in direct sunlight or rain.
- It is important for the safety of persons to follow the enclosed instructions. Save these instructions for future reference.

1. Safety Instructions (Continued)

- 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 remote controls away from children.
- Frequently inspect for improper operation. Do not use if repair or adjustment is necessary.
- Keep motor away from acid and alkali.
- Keep clear when in operation.
- Electrical wiring must be carried out by a licensed electrician.
- At the end of its life, dispose of the product in accordance with local regulations for electronic waste.
- If any cables are exposed to direct sunlight, they must comply with IEC 60245-57.

2. Compliance Statement

This device complies with Part 15 of the FCC Rules / Industrie 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 closer than this distance are 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. Wiring, Modes & Zones

3.1 AU Motor – 240 V

Disconnect the mains power supply and connect the motor according to the information in the table below.

Motor	Power	Neutral	Live	Earth
MT01-2101-069001	220-240 V ac ~ 50 Hz	Blue	Brown	Yellow/Green



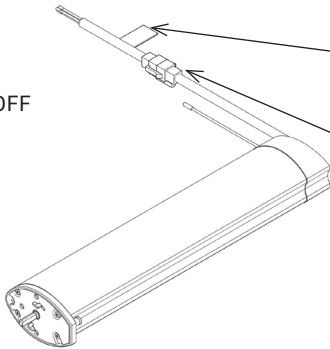
IMPORTANT

Ensure cable is kept clear of fabric.

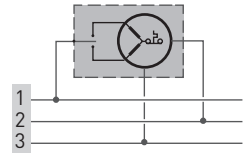
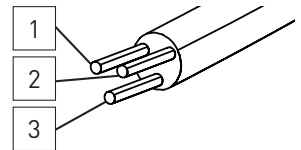
Ensure antenna is kept straight and away from metal objects.



Power OFF



Water proof connector



3.2 US Motors – 120 V

Disconnect the mains power supply and connect the motor according to the information in the table below.

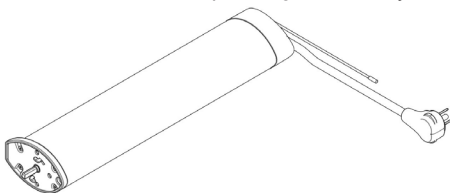
Motor	Power Cord Length	Power	Neutral	Live	Earth
MTACRFDR-50KG	10 ft. (3m)	120 V ac ~ 60 Hz	White	Black	Green
MTACRFDR-50KGLC	20 ft. (6m)				



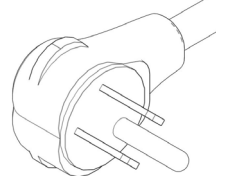
IMPORTANT

Ensure cable is kept clear of fabric.

Ensure antenna is kept straight and away from metal objects.



Power Cord




3. Wiring, Modes & Zones (Continued)

3.3 US Motors – 120 V + Field Plug

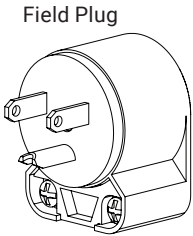
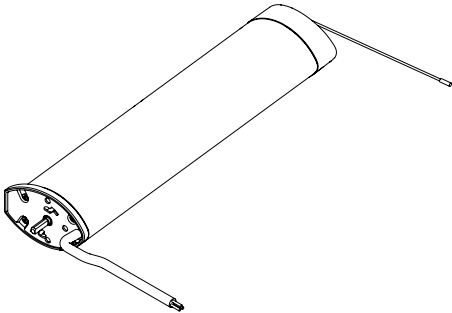
A Field Plug (sold separately) is an alternative option for installations where the power outlet is at the end of the drapery track, rather than floor level.

Field Plug	Power	Neutral	Live	Earth
MTAC- FIELDPLUG	120 V ac ~ 60 Hz	White	Black	Green

 **Note:** Power cable may optionally be routed through the top of the motor housing allowing the cable to exit the top of the track system.




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



4. Assembly

The Automate ARC Drapery motor works with most major drapery track systems. Follow the below instructions to simply retrofit with the Drive Pulley (available separately) to an existing track.

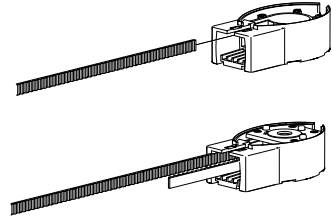
 **Note:** Disassemble existing drapery track prior to following assembly steps.

1. Install drapery drive belt into new drive housing & assemble drive housing components. It is recommended that both pulleys be replaced to allow for installation of motor on either end.



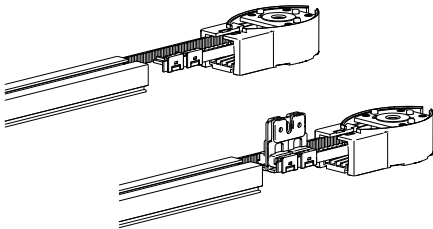
IMPORTANT

Ensure proper orientation of the master carrier when assembling the system. The master carrier should be attached to the belt exactly as described and depicted in this assembly guide to ensure correct setting and functionality of the motor limits.

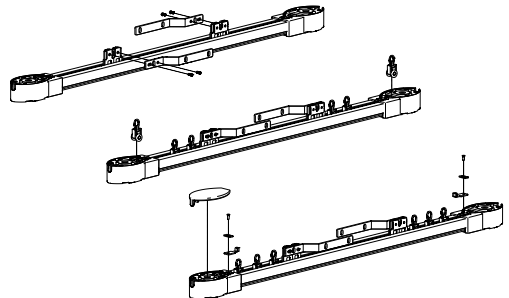


2. Assemble drive belt attachments and attach drive housing to track.

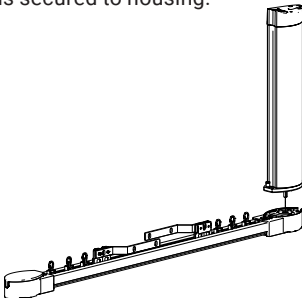
Repeat steps 1-2 for Idler Side



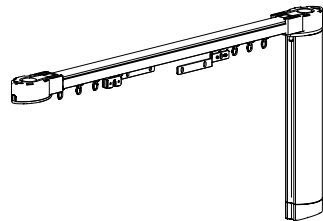
3. Assemble Brackets, Runners, Stoppers & Idler Drive Unit Cover.



4. Assemble Drapery Motor to drive housing. Ensure Fixing Pin is engaged securely and motor is secured to housing.



5. Plug motor into wall receptacle.



Note: Motor power cable may be shortened and/or routed through the motor body to exit the top of the track. This requires using a field installed plug to replace the motor grounding plug.

5. P1 Button Functions

5.1 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

5.2 Motor Configuration Options

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

Hold **P1** button on motor head.

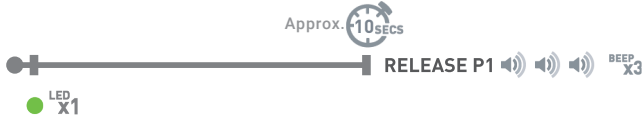
Activate Pairing Mode



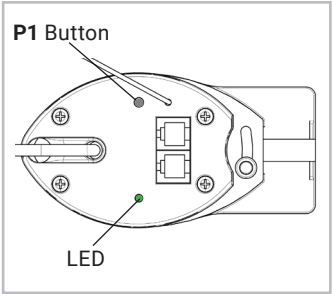
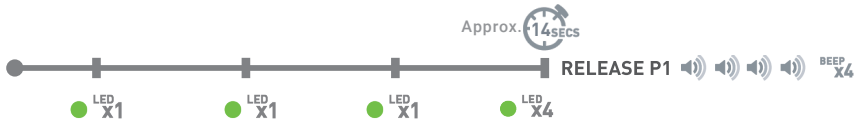
Sleep Mode



Reverse Direction



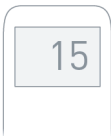
Reset To Factory Settings



6. Initial Set Up

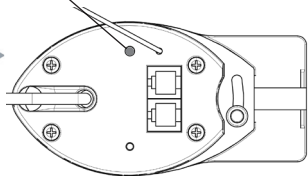
6.1 Pair Motor with Controller

Select channel on controller.



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

P1 Button



Hold **STOP** on controller.



Motor Response

Motor Response



IMPORTANT

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

LED X1

RELEASE P1

EXT. BEEP X1

Approx. 2secs

BEEP X3

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

6.2 Check Motor Direction

For correct operation **UP** should open Drapery and **DOWN** should close.

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.



Motor Response

Quick Press = Step

Long Press = Continuous Travel

Approx. 2secs

BEEP X3

LED X5



IMPORTANT

Reversing motor direction using this method is only possible during initial set-up, prior to first time limit setting, or after a re-set of motor.

6.3 Set Limits

The AUTOMATE® drapery motor features automatic limit detection. Once the motor is attached to a fabricated, installed track, limits can be set with a few simple actions.

Press the **UP** or **DOWN** buttons on controller. Carrier will run to the end of the track.



When carrier has reached the end of the track, it will automatically set limit there. Repeat for opposite end.



Initial set-up is now complete



IMPORTANT

To verify limits were successfully set, press up or down to run to limit. Motor should now function with slow start/slow stop feature.

After the limits are set, the motor will only move in the set limit range.

If the motor encounters a new obstacle a maximum of **THREE TIMES** at the same position, the limit will automatically reset.

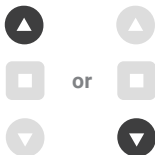
7. Adjusting Limits

7.1 Adjust Upper/Open Limit

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



Move shade to the desired upper position by pressing the **UP/OPEN** or **DOWN** button.



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



Motor Response



Motor Response



7.2 Adjust Lower/Close Limit

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



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



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



Motor Response



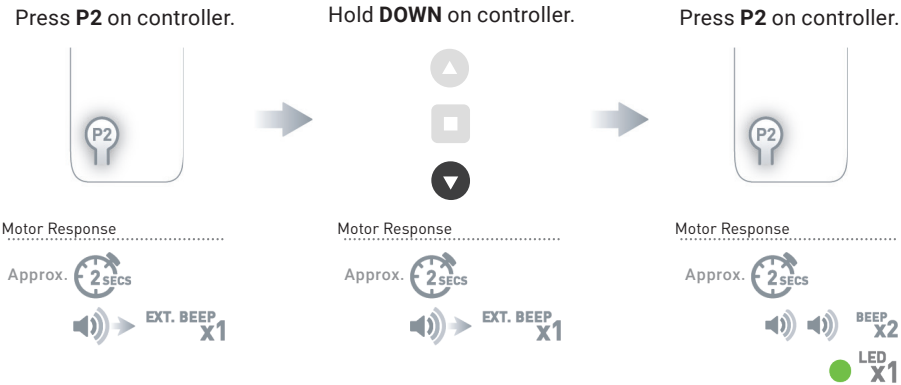
Motor Response



7. Adjusting Limits (Continued)

7.3 Delete limits

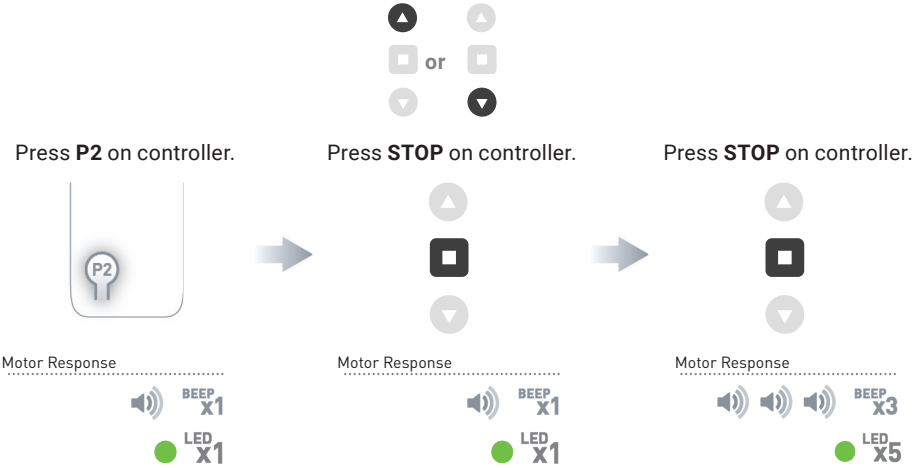
The AUTOMATE® drapery motor enables limits to be deleted and reset.



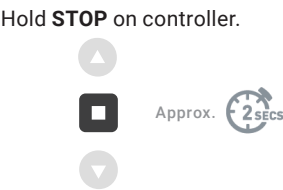
8. Favorite Positioning

8.1 Set a Favorite Position

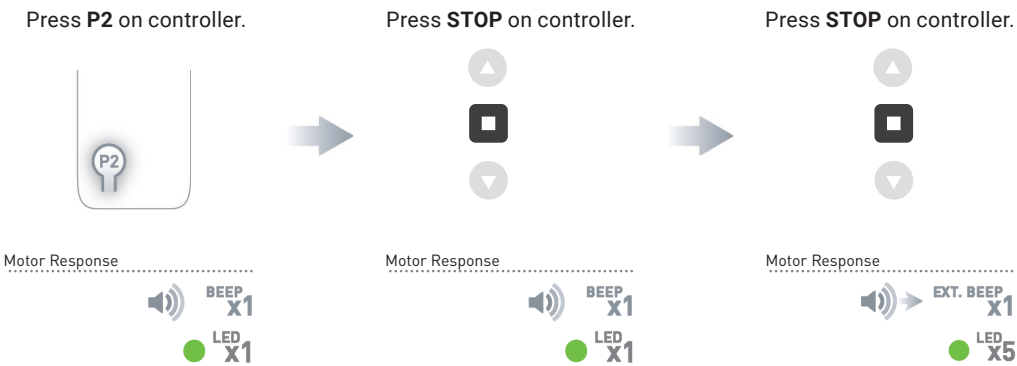
Move shade to the desired position by pressing the **UP** or **DOWN** button on the controller.



8.2 Send Shade to Favorite Position



8.3 Delete Favorite Position

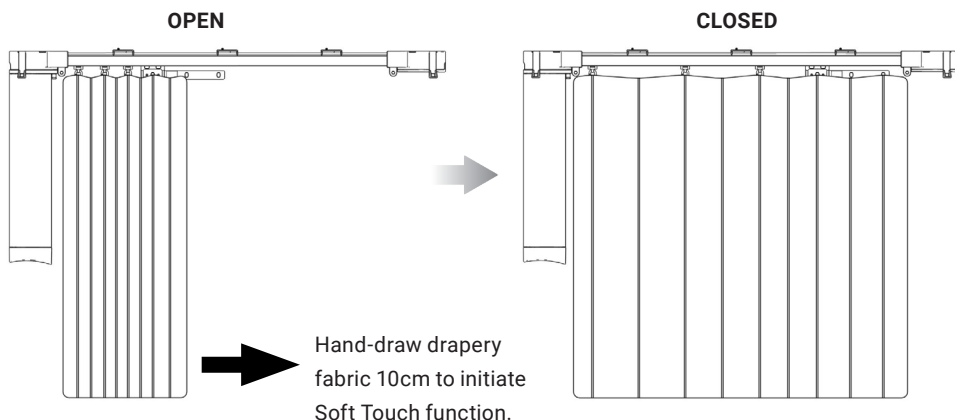


9. Soft Touch Function

The AUTOMATE® drapery motor exhibits a built-in function which enables the motor to be initiated by hand-draw. When the fabric is displaced more than 10cm by hand-draw, the motor continues to move towards the draw direction, until the limit is reached.

The Soft Touch Function can be toggled on and off by pressing the **P1** button for 10 seconds, followed by the **STOP** button.

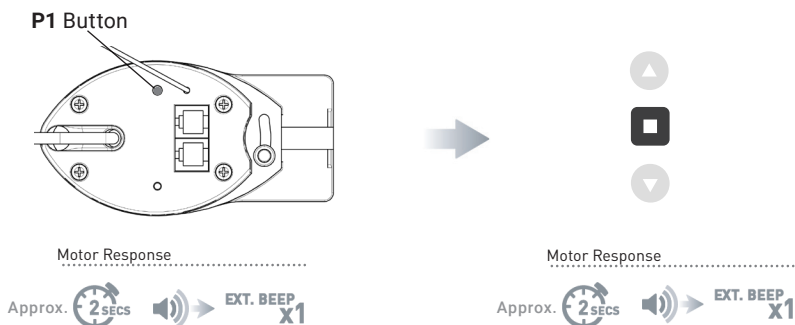
9.1 Activate Soft Touch Function



9.2 Deactivate Soft Touch Function

Hold **P1** button on motor head for 2 seconds.

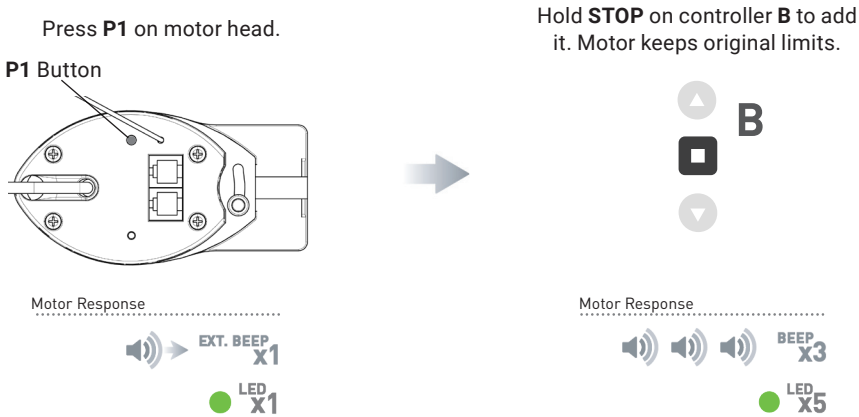
Press **STOP** on controller.




10. Controllers and Channels

10.1 Using Motor P1 Button to Add a New Controller or Channel

B (Controller) = Controller or channel to add.

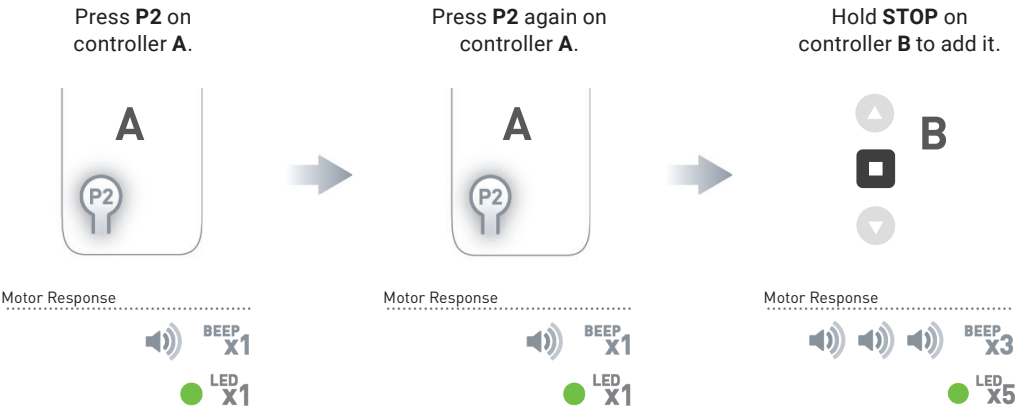


 **IMPORTANT**
Consult user manual for your controller or sensor.

10.2 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.

10.3 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.

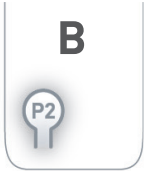
Press **P2** on
controller **A**.



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



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



Motor Response



Motor Response



Motor Response



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

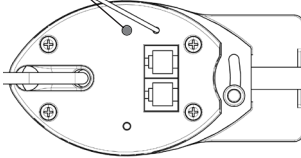
11. Sleep Mode

Sleep mode is used to disable the Radio in the motor, thus it will not react to radio commands when this mode is activated. This feature is useful for administering motor programming functions when the motor is paired to the same channel as other motors.

11.1 Enter Sleep Mode

Hold **P1** button on motor head.

P1 Button



11.2 Exit Sleep Mode

Exit sleep mode once installation is complete.

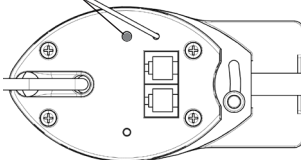
Option 1:

Tug on drape master carrier to activate the motor.

Option 2:

Press & release **P1** button on motor head.

P1 Button



Problem	Cause	Remedy
Motor is not responding	A / C power supply not plugged in.	Check motor to power cable connection and AC plug.
	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
	Power failure	Check power supply to motor is connected and active
	Incorrect wiring	Check that wiring is connected correctly (refer to motor installation instructions)
Cannot program a single Motor (multiple motors respond)	Multiple motors are paired to the same channel.	Always reserve an individual channel for programming functions
		SYSTEM BEST PRACTICE - Provide an extra 15 channel remote in your multi motor projects, that provides individual control for each motor for programming purposes
		Place all other motors into sleep mode (ref to P1 function overview - section 2.2 and section 8)

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