



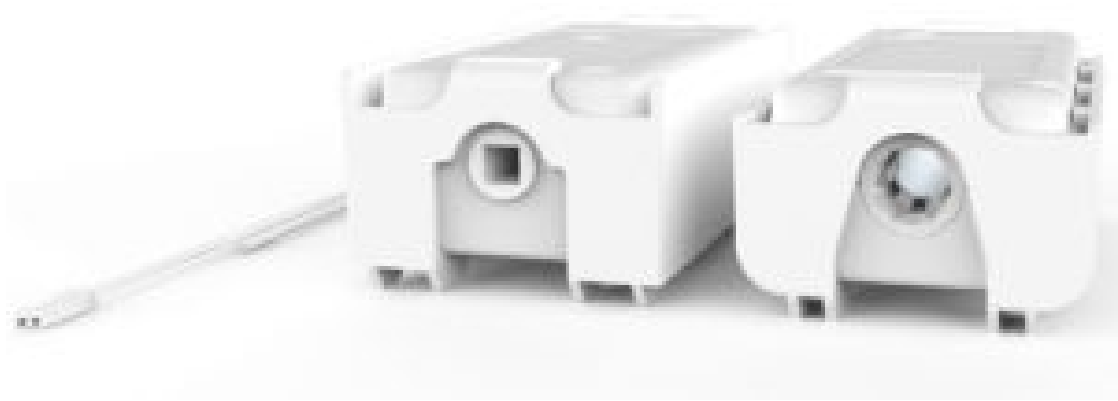
Automate Core Tilt Motor User Manual

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Automate Core Tilt Motor User Manual



AUTOMATE™ CORE TILT MOTOR INSTRUCTIONS



ELECTRONIC
LIMIT



SELECTABLE
SPEED



433 MHZ
BI-DIRECTIONAL



FAVORITE
POSITION



SOLAR OPTION



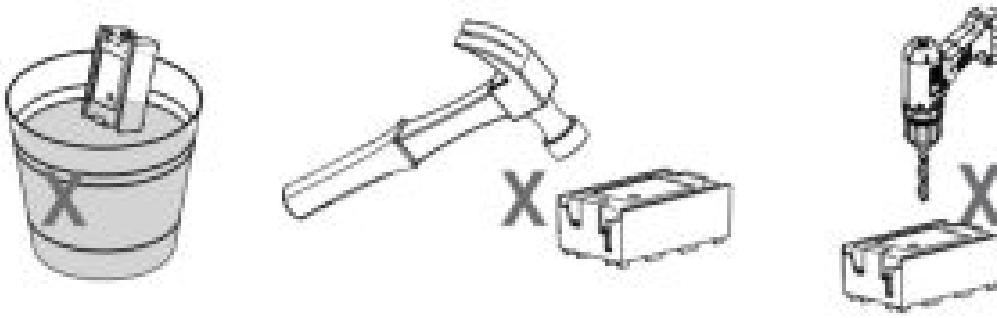
LEVEL CONTROL

USE THIS DOCUMENT WITH THE FOLLOWING MOTORS:

| PART NUMBER | DESCRIPTION |
|------------------|----------------------------|
| MT01-4001-xxx002 | Passthrough Tilt Motor Kit |
| MTDCRF-TILT-1 | Automate VT Motor |

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.



CAUTION

- Do not expose to moisture or extreme temperatures.
- Do not allow children to play with this device.
- 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 tubular blinds.
- Ensure correct crown and drive adaptors are used for the intended system.
- Keep antenna straight and clear from metal objects
- Do not cut the antenna.
- Use only 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 horizontal 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 and aerial is clear and protected from moving parts.
- If cable or power connector is damaged do not use.

Important safety instructions to be read prior to operation.

- It is important for the safety of persons to follow the enclosed instructions. Save these instructions for future reference.
- 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.
- Do not force the motor drive.
- Keep clear when in operation.



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

U.S. Radio Frequency 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.

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 to help.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

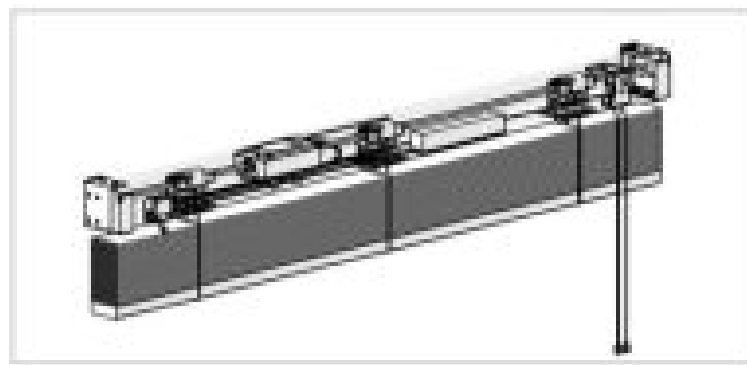
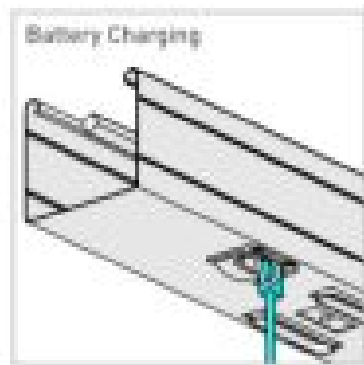
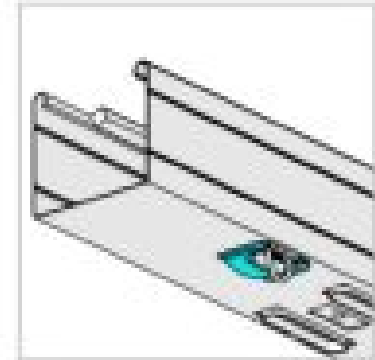
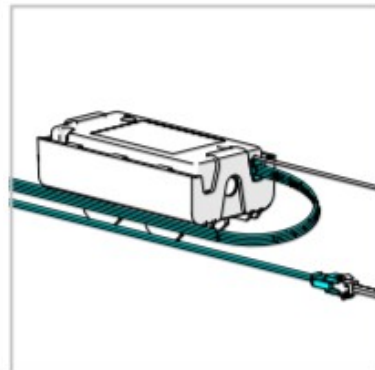
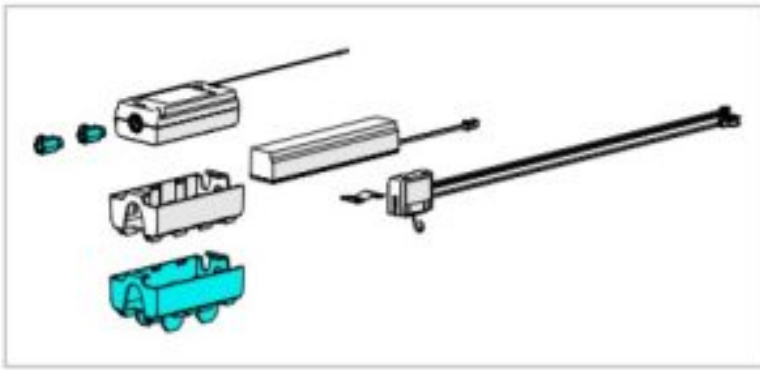
ISED RSS Warning:

This device complies with Innovation, Science and Economic Development Canada license-exempt 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.

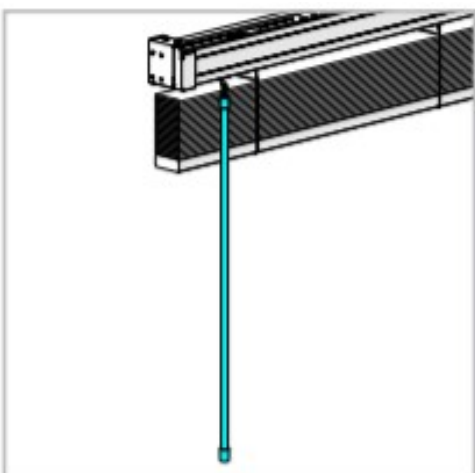
1 CORE TILT MOTOR ASSEMBLY

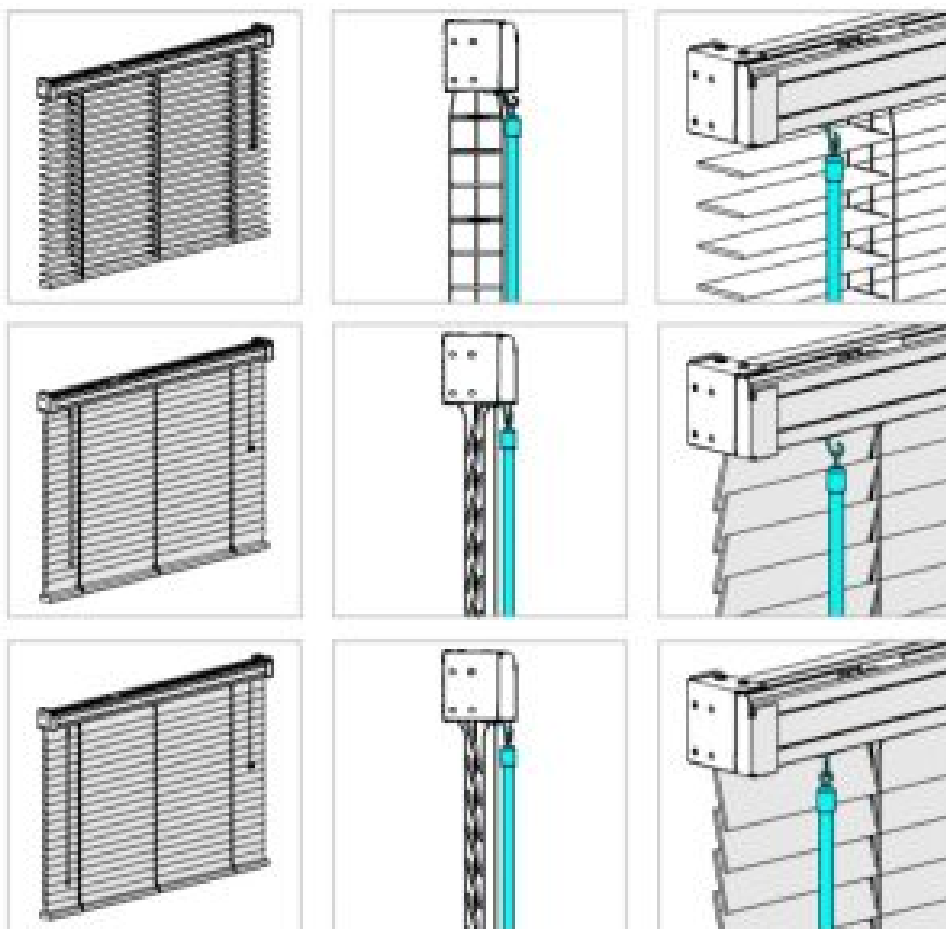
- Assemble correct configuration as required
- Disassemble existing venetian manual control assembly
- Insert motor assembly into existing venetian head rail assembly
- Re-insert tilt rod through the motor assembly & spools
- Attach switch control cover



2 CORE TILT MOTOR WAND OPERATION

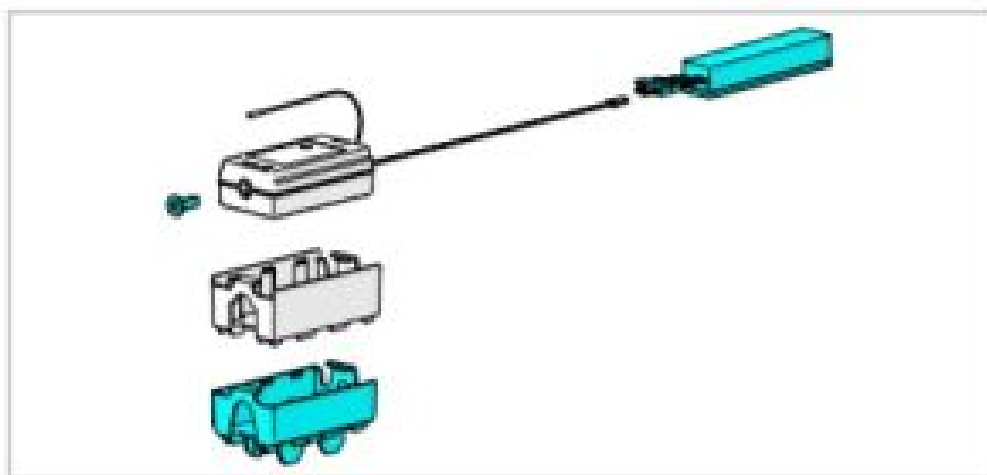
- Optional Control Wand

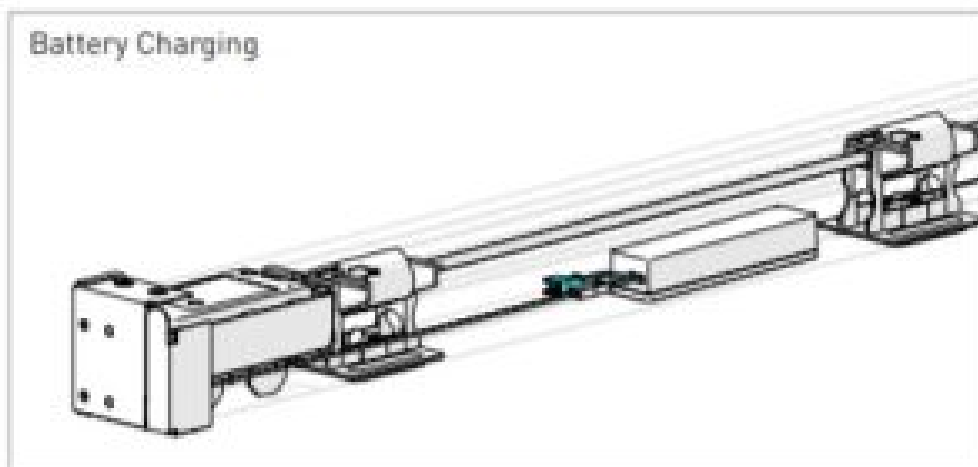
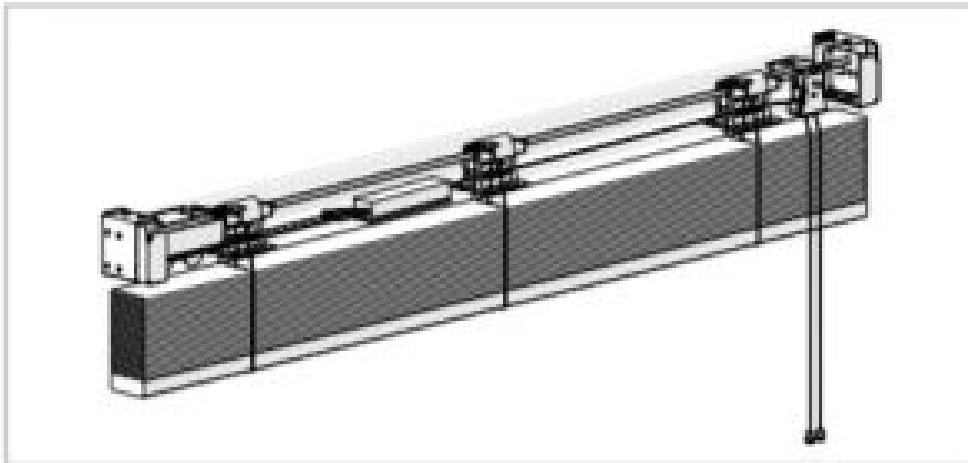
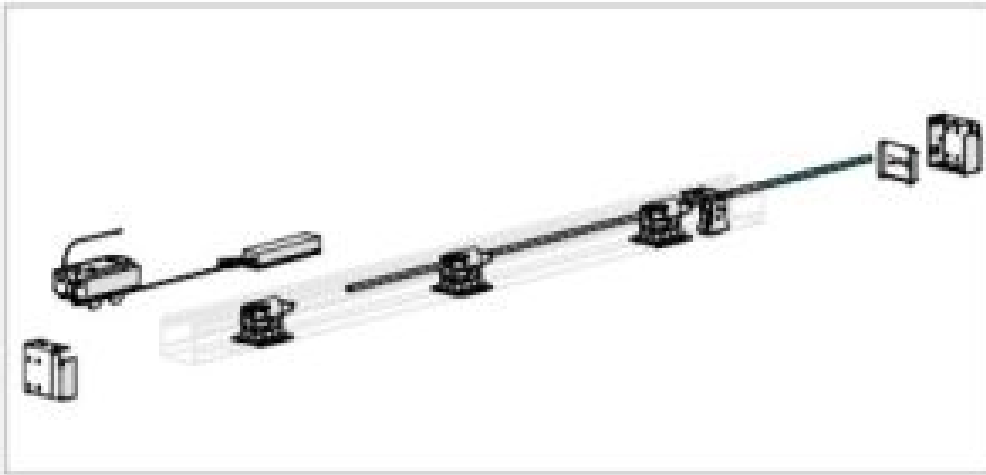




3 TILT MOTOR ASSEMBLY

- Assemble correct configuration as required
- Insert motor assembly into venetian head rail assembly
- Ensure tilt rod is engaged with the motor
- Minimum tilt rod insertion with motor is 1/2"
- Maximum tilt rod insertion\ with motor is 3/4"





4 WIRING

4.1 Power Options

Automate DC motor MTDCRF-TILT-1 is powered from a 12V DC power source. AA Battery wands, re-chargeable battery packs and A/C power supplies are available, with a variety of quick connect extension cords. For centralized installations, power supply range can be extended with 18/2 wire (not available through Rollease Acmeda).

- During operation, if voltage drops to less than 10V, the motor will beep 10 times to indicate a power supply issue.
- Motor will stop running when the voltage is lower than 7V and it will resume again when the voltage is greater

than 7.5V.

NOTE:

- Passthrough Tilt Motor MT01-4001-xxx002 comes supplied with a rechargeable battery pack.

| Power Supply | Compatible Motors |
|---|-------------------|
| MTBWAND18-25 Battery Tube for 18/25mm DCRF (no Battery) Mtrs (inc Mt clips) | MTDCRF-TILT-1 |
| MTDCPS-18-25 Power Supply for 18/25-CL/Tilt DCRF (no Bttry) Mtr | |
| MTBPCKR-28 Rechargeable Wand | |
| MT03-0301-069011 USB Wall Charger – 5V, 2A (AU ONLY) | MT01-4001-xxx002 |
| MT03-0301-069008 USB Wall Charger – 5V, 2A (US ONLY) | |
| MT03-0301-069007 4M (13ft) USB Micro Cable | |
| MT03-0302-067001 Solar Panel Gen2 | |

| Extension Cables | Compatible with |
|---|------------------|
| MTDC-CBLXT6 DC Battery Motor Cable extender 6" / 155mm | MTDCRF-TILT-1 |
| MTDC-CBLXT48 DC Battery Motor Cable extender 48" / 1220mm | |
| MTDC-CBLXT96 DC Battery Motor Cable extender 96" / 2440mm | |
| MT03-0301-069013 48"/1200mm 5V Cable Extender | MT01-4001-xxx002 |
| MT03-0301-069014 8"/210mm 5V Cable Extender | |
| MT03-0301-069 | |



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

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.

Activate Pairing Mode



Sleep Mode



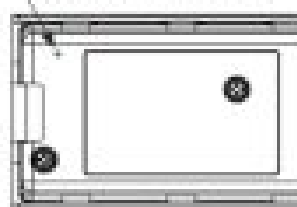
Reverse Direction



Reset To Factory Settings



P1 button on motor head.



IMPORTANT

ONLY THE FRONT-THROUGH MOTOR EMITS A SLEEPING NOISE.

IGNORE THIS ICON WHEN PROGRAMMING MTOCRP-TBLT-1.

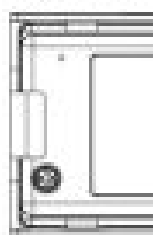
ALL OTHER PROMPTS ARE THE SAME FOR BOTH MOTORS.

6.1 Pair motor with controller

Select channel on controller.



Hold **P1** button on motor head.



Hold **STOP** on controller.



Motor is now in step mode and ready for setting limits

6.2 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 Response¹





IMPORTANT

Damage to shade may occur when operating motor prior to setting limits. Attention should be given. Reversing motor direction using this method is only possible during initial set-up.

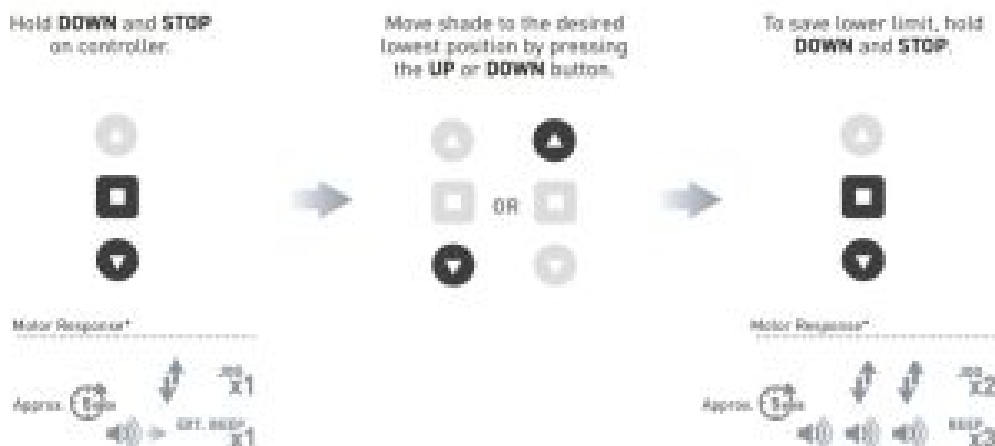
6.3 Set Limits



7.1 Adjust upper limit



7.2 Adjust lower limit





IMPORTANT

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

8 CONTROLLERS AND CHANNELS

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

A = Existing controller or channel (to keep)

B = Controller or channel to add or remove



IMPORTANT Consult user manual for your controller or sensor

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

A = Existing controller or channel (to keep)

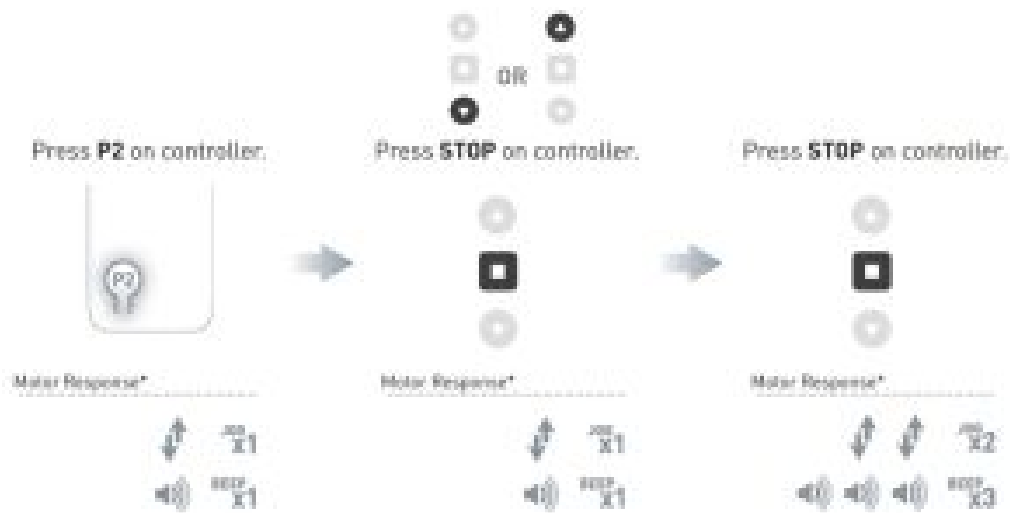
B = Controller or channel to add or remove



9 FAVORITE POSITIONING

9.1 Set a favorite position

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



9.2 Send shade to favorite position



9.3 Delete favorite position



10.1 Toggle motor to Tilt Mode

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

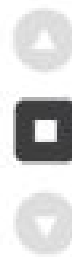
Hold **UP & DOWN** on controller.

Press **STOP** on controller.



Motor Response*

Approx. 5secs JOG X1



Motor Response*

JOG X1
 EXT. BEEP X1

10.2 Toggle Motor to Roller Mode

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



Motor Response*

Approx. 5secs JOG X1



Motor Response*

JOG X2
 BEEP X3

11 ADJUSTING SPEED

11.1 Increase Motor Speed

NOTE: Repeating this step when at the fastest speed ENTERS Soft Stop Mode in MT01-4001-069001.

Press **P2**



Motor Response*

JOG X1
 BEEP X1



Press **UP**



Motor Response*

JOG X1
 BEEP X1



Press **UP**



Motor Response*

JOG X2
 BEEP X1

11.2 Decrease Motor Speed

NOTE: Repeating this step when at the slowest speed EXITS Soft Stop Mode in MT01-4001-069001.



12 . 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



Exit Sleep Mode: Method 1

Exit sleep mode once the shade is ready.
Press and release P1 button on the motor head

Exit Sleep Mode: Method 2

Remove power and then re-power the motor.


13 TROUBLE SHOOTING

| 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 |
| | Controller battery is discharged | Replace battery |
| | Battery is inserted incorrectly into controller | 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. |

Read More About This Manual & Download PDF:

Documents / Resources

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|--|--|
|  | <p>AUTOMATE Automate Core Tilt Motor [pdf] User Manual AUTOMATE, Automate, Core Tilt Motor</p> |
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