AUTOMATE™ | VT 1.0
ARC™ VENETIAN BLIND TILT MOTOR

ARC
Automate Radio Communication

433 MHZ BI-DIRECTIONAL

ELECTRONIC LIMIT

FAVORITE POSITION

LEVELLING CONTROL

SELECTABLE RPM

AUTOMATE™ | ARC™ Venetian blind motor enables motorized tilting function of most 2" venetian blinds. Precisely control the openness of blind vanes or simply recall a favorite position.

FEATURES:

- Electronic Limits
- 433 MHz Bi-Directional RF Communication
- Favorite Position
- 3 x Selectable Rpm
- Jog or latch & Run Modes

INSTR. MTDCRF-TILT-1 V1.0 APRIL 2017

ROLLEASE ACMEDA
PRECISION IN MOTION

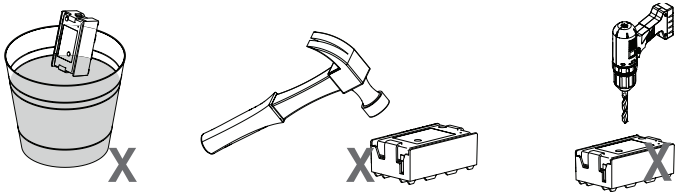
NOTES

CONTENTS

SAFTEY 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.

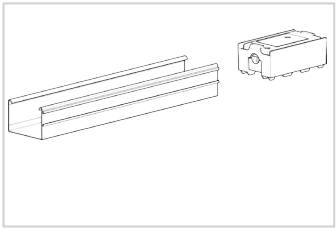
Do not dispose of in general waste.
Please recycle batteries and damaged electrical products appropriately.

Intertek
5005833

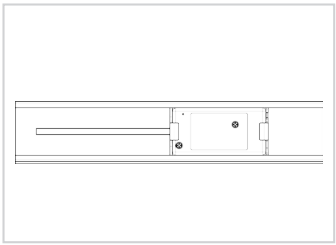
1 ASSEMBLY

The Automate Venetian Blind tily motor works with most 2" blind headrail systems.

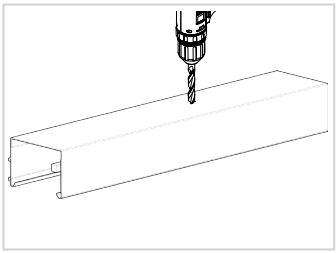
Step 1. Insert the motor / cradle assembly completely into the drive side of the 2" headrail



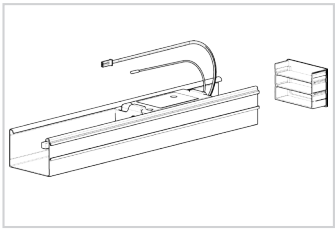
Step 2. Ensure at least ½" inch of the tilting drive Shaft is inserted into the motor.
(max depth is ¾" – Optional Shaft adapters may be required)

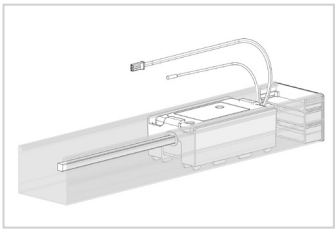


Step 3. Remove motor, mark and drill hole where **P1** button can be accessed.



Step 4. Reinstall motor, ensuring power cord and Antenna extend freely from the headrail cap.



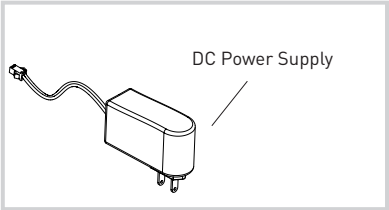


2 WIRING

2.1 Power Options

Automate DC motors are 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.



Power Supply	Motor
MTBWAND18-25 Battery Tube for 18/25mm DCRF (no Battery) Mtrs (inc Mt clips)	MTDCRF18-0.2 - 18mm DCRF Motor, .2N/80
	MTDCRF25-1.1 25mm DCRF Motor, 1.1N/40r
	MTDCRF-TILT-1
	MTDCRF-CL-0.6-50
MTDCPS-18-25 Power Supply for 18/25-CL/Tilt DCRF (no Bttry) Mtr	MTDCRF18-0.2 - 18mm DCRF Motor, .2N/80
	MTDCRF25-1.1 25mm DCRF Motor, 1.1N/40r
	MTDCRF-TILT-1
	MTDCRF-CL-0.6-50
MTBPCKR-28 Rechargeable Wand	MTDCRF18-0.2
	MTDCRF25-1.1
	MTDCRFQ28-2
	MTDCRF-TILT-1
	MTDCRF-CL-0.6-50

Extension Cables	Length
MTDC-CBLXT6 DC Battery Motor Cable extender 6" / 155mm	6 inch
MTDC-CBLXT48 DC Battery Motor Cable extender 48" / 1220mm	48 inches
MTDC-CBLXT96 DC Battery Motor Cable extender 96" / 2440mm	96 inches

Ensure cable is kept clear of fabric.

Ensure antenna is kept straight and away from metal objects.

3 P1 BUTTON FUNCTIONS

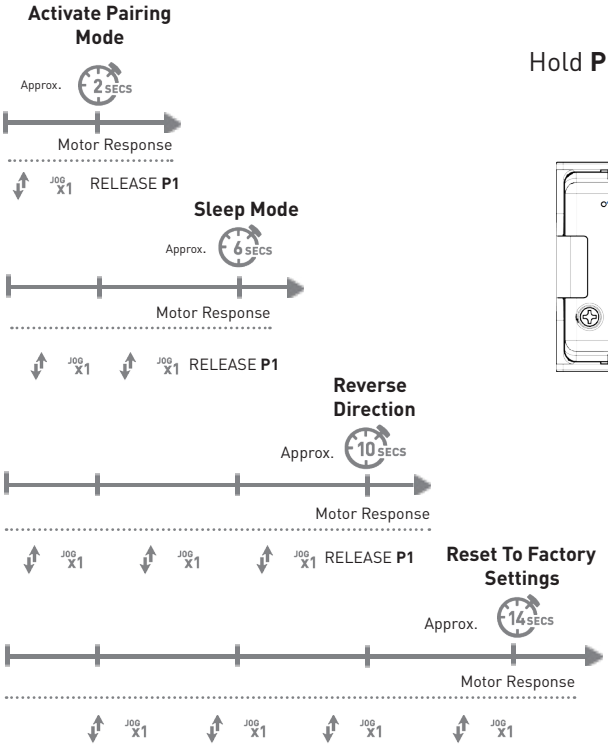
3.1 Motor State Test

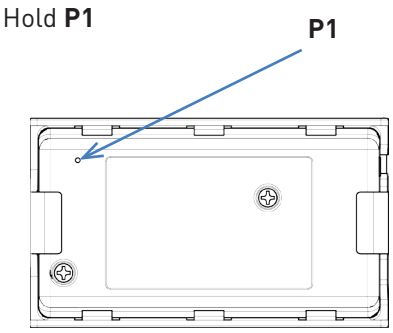
This table describes the function of a short **P1** button press/release(<2 seconds) depending on current motor configuration.

P1 Press	Condition	Function Achieved	Visual Feedback	Audible Feedback	Function Described
Short Press then Release (<2 sec)	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 (Refer to Sec.10)	Wake and control	Motor wakes and runs in a direction	None	Motor is restored from Sleep mode and RF control is active

3.2 Motor Configuration Options

The **P1** Button is utilized to administer motor configuration as described below and beginning in Section 4.





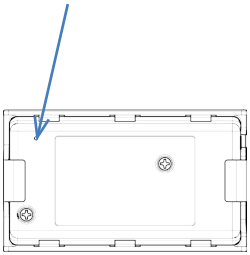
4 INTIAL SET-UP

4.1 Pair Motor with controller

Select channel on controller.

(Disregard if using single channel controller)

Hold **P1** button on motor



Hold **STOP** on controller

IMPORTANT

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

Motor Response

JOG X1 RELEASE **P1**

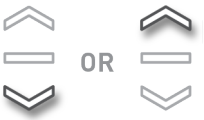
Motor Response

2 SECS JOG X2

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

4.2 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 motor responds

Motor Reponse

JOG X1

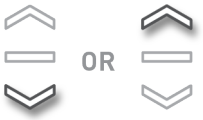
Reversing motor direction using this method is only possible during initial set-up, prior to first time limit setting, or after a re-set of motor

4.3 Set limits

IMPORTANT

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

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



Quick Press = Step
Long Press = Continuous Travel

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

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

Motor Response

Approx. 5 SECS

JOG x2

Initial set-up is now complete

5 ADJUSTING LIMITS

5.1 Adjust upper limit

Hold **UP** and **STOP** on Controller until the motor responds.

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

To save upper limit, hold **UP** and **STOP** until the motor responds.

Motor Response

Approx. 5 SECS

JOG x1

Motor Response

JOG x2

5.2 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

Approx. 5 SECS

JOG x1

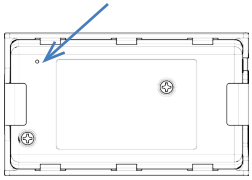
Motor Response

JOG x2

6 ADDING OR REMOVING CONTROLLERS AND CHANNELS

6.1 Using motor P1 button

Hold **P1** button on motor head.



Motor Response

JOG x1 RELEASE **P1**

Hold **STOP** on controller to add or remove

Motor Response

Approx. 2 SECS JOG x2

6.2 Using a pre-existing controller

A= Existing controller or channel (to keep)

B= Controller or channel or add or remove

Press **P2** on existing controller.

Motor Response

JOG x1

Press **P2** on existing controller.

Motor Response

JOG x1

Press **P2** on new controller.

Motor Response

JOG x2

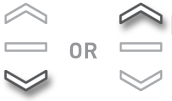
IMPORTANT

Consult user manual for your controller or sensor.

7 FAVORITE POSITIONING

7.1 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

7.2 Send shade to favorite position

Hold **STOP** on controller.

7.3 Delete favorite position

Press **P2** on controller.

Motor Response

Press **STOP** on controller.

Motor Response

Press **STOP** on controller.

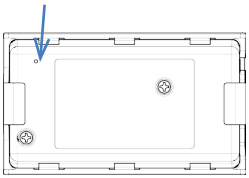
Motor Response

8 SLEEP MODE

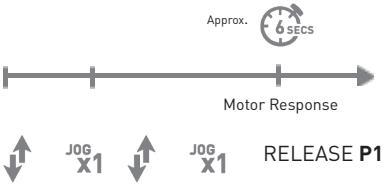
8.1 Enter sleep mode

Sleep mode is utilized to prevent a motor from moving during shipping of a fabricated shade.

Hold **P1** button on motor head.



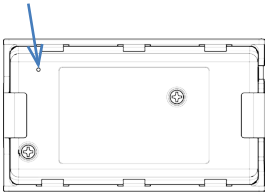
Motor Response



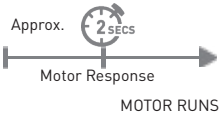
8.2 Exit sleep mode

Exit sleep mode once shade is installed.

PRESS & RELEASE **P1** button on motor head.



Motor Response



9 TROUBLESHOOTING

Problem	Cause	Remedy
Motor is not responding	A / C power supply not plugged in.	Check motor to power cable connection and AC plug.
	Battery in wand are depleted	Replace 8xAA alkaline batteries.
	Power failure	Check power supply to motor is connected and active
	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
	Incorrect wiring	Check that wiring is connected correctly (refer to motor installation instructions)
Unable to adjust or set limits.	Remote is in a locked state.	Change remote status to an unlocked state
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 3.2 and 10.1)

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.

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