

# AUTOMATE

## DC ARC TUBULAR MOTOR



**433 MHZ  
BI-DIRECTIONAL**



**ELECTRONIC  
LIMIT**



**SELECTABLE  
RPM**



**FAVORITE  
POSITION**



**LEVEL CONTROL**

AUTOMATE | DC ARC motors offer a low voltage easy to use and program solution to suit a large range of applications, torques and speeds.

Leveling Control allows for precise positioning of multiple shades ensuring perfect alignment.

Additionally, a favorite position can be pre-set and recalled at any time.

### FEATURES:

- Electronic Limits
- 433 MHz Bi-Directional RF Communication
- Leveling Control
- 3 x Selectable Rpm
- Favorite Position
- Roller & Tilt Modes
- Narrow Shade Options



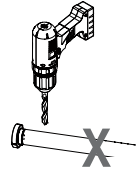
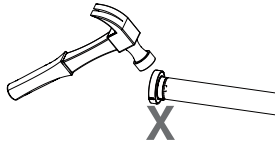
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# SAFETY INSTRUCTIONS

## 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.

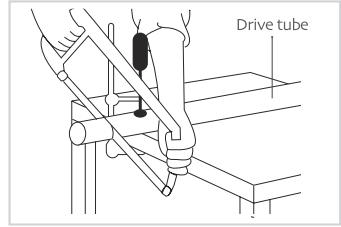
- It is important for the safety of persons to follow the enclosed instructions. Save these instructions for future reference.
- Persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge should not be allowed to use this product.
- Keep remote 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.



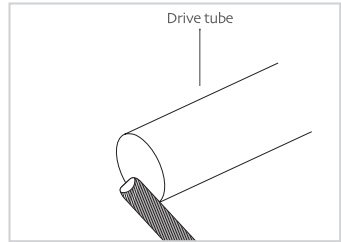
# 1 ASSEMBLY

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

**Step 1.** Cut roller tube to required length.

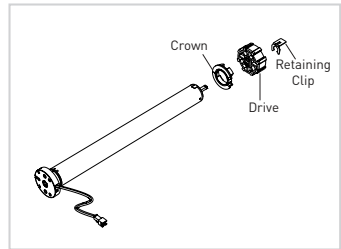


**Step 2.** Ensure roller tube is clean and free from burrs.



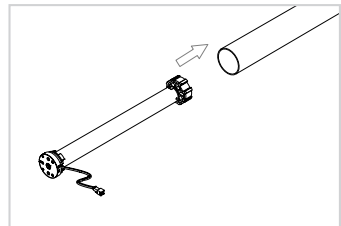
**Step 3.** Fit required crown, drive and bracket adapters.

Tube must be close fitting with chosen crown and drive adapters. Refer to Rollease Acmeda System Assembly Manual for recommended crown, drive, and bracket adapter kits.



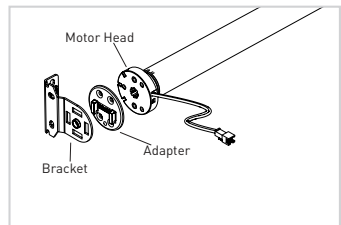
**Step 4.** Slide Motor into tube.

Insert by aligning keyway in crown and drive wheel to the tube.



**Step 5.** Mount motorized tube onto brackets.

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

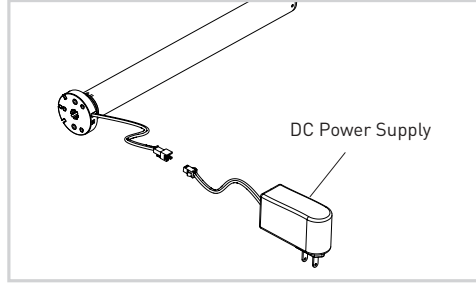


## 2 WIRING

### 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 Acmeda Rollease).

- 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
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
MTDCPS-28-35-45 Power Supply for 28/35/45mm DCRF (no Battery) Mtr 28mm DC ARC	MTDCRFQ28-2 28mm DCRF Quiet Motor, 2N/28r
	MTDCRF35-3 35mm DCRF Motor, 3N/28r
	MTDCRFQ45-3 45mm DCRF Quiet Motor, 3N/28r
	MTDCRF45-10 45mm DCRF Motor, 10N/9r
MTDCKR-28 Rechargeable Wand	MTDCRF18-0.2
	MTDCRF25-1.1
	MTDCRFQ28-2
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

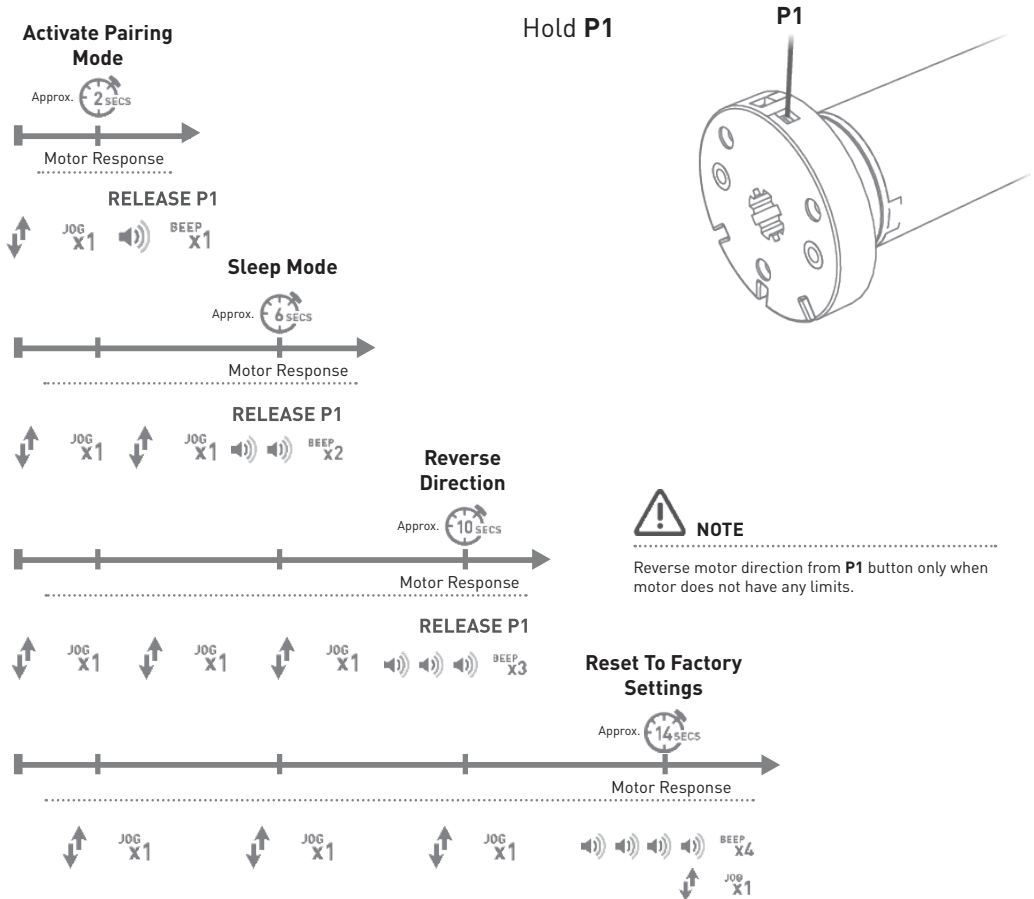
## 3.1 Motor state test

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	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

## 3.2 Motor configuration options

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



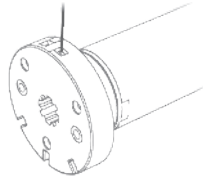
## 4 INITIAL SET-UP

### 4.1 Pair motor with controller

Select channel on controller.



Hold **P1** button on motor head.



Hold **STOP** on controller.



#### IMPORTANT

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

Motor Response



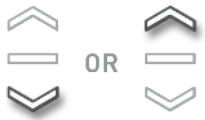
Motor Response



**Motor is now in step 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 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.



### 4.3 Set limits

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

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**.



#### **IMPORTANT**

Cycle shade up and down prior to setting limits to settle fabric

#### Motor Response

Approx.  5 SECS



#### **IMPORTANT**

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

 **Initial set-up is now complete**

# 5 ADJUSTING LIMITS

## 5.1 Adjust upper limit

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



Move shade to the desired highest position by pressing the **UP** button.



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



Motor Response



Motor Response



## 5.2 Adjust lower limit

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



Move shade to the desired lowest position by pressing the **DOWN** button.



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



Motor Response



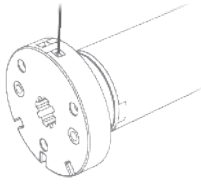
Motor Response



## 6 ADDING OR REMOVING CONTROLLERS AND CHANNELS

### 6.1 Using motor P1 button

Hold **P1** button on motor head.



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



Motor Response



Motor Response



### 6.2 Using a pre-existing controller

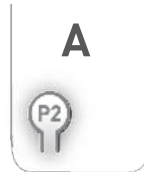
**A**= Existing controller or channel (to keep)

**B**= Controller or channel to add or remove

Press **P2** on existing controller.



Press **P2** on existing controller.



Press **P2** on new controller.



Motor Response



Motor Response



Motor Response



**IMPORTANT**

Consult user manual for your controller or sensor.

## 7 FAVORITE POSITIONING

### 7.1 Set a 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

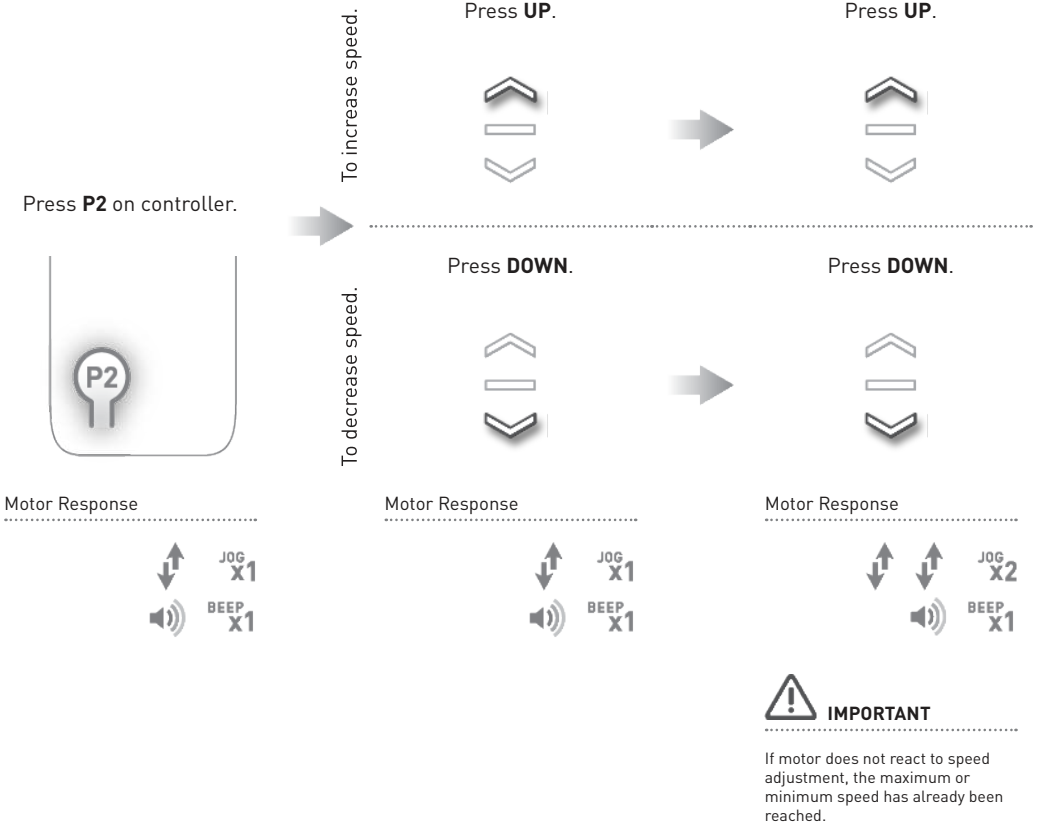


# 8 ADJUSTING MOTOR SPEED

## 8.1 Increase or decrease motor speed

To adjust motor speed, follow these three steps for each level of speed adjustment.

There are three speeds available



## 9 TILT & ROLLER MODE

### 9.1 Enter tilt mode

For slat adjustment on venetians.

Hold **UP** and **DOWN** on controller.

Press **STOP**.



Motor Response



Motor Response



### 9.2 Enter roller mode (Default)

Hold **UP** and **DOWN** on controller.

Press **STOP**.



Motor Response



Motor Response

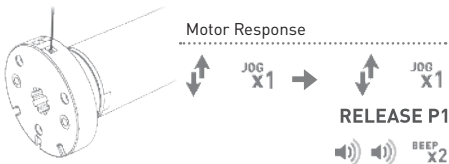


## 10 SLEEP MODE

### Enter Sleep Mode

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

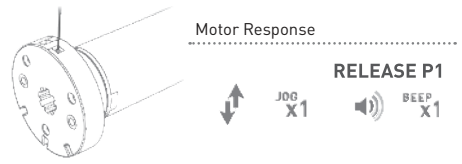
Hold **P1** button on the motor head



### Exit Sleep Mode

Exit sleep mode once the shade is installed

Hold **P1** button on the motor head



# 11 TROUBLESHOOTING

Problem	Cause	Remedy
Motor is not responding	Batteries in wand are depleted	Replace 8 x AA alkaline batteries.
	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)
Motor beeps 10 times when in use	Battery voltage is low.	Replace batteries in battery wand -OR- Recharge rechargeable battery pack.
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 controller in your multi motor projects, that provides individual control for each motor for programming purposes  Place all other motoprns into sleep mode (ref to <b>P1</b> button function overview - Section 3)

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