AUTOMATE DC ARC TUBULAR MOTOR

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.
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.

![DC Power Supply]

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>Motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTBWAND18-25 Battery Tube for 18/25mm DCRF (no Battery) Mtrs (inc Mt clips)</td>
<td>MTDCRF18-0.2 - 18mm DCRF Motor, .2N/80</td>
</tr>
<tr>
<td></td>
<td>MTDCRF25-1.1 25mm DCRF Motor, 1.1N/40r</td>
</tr>
<tr>
<td>MTDCPS-18-25 Power Supply for 18/25-CL/Tilt DCRF (no Bttry) Mtr</td>
<td>MTDCRF18-0.2 - 18mm DCRF Motor, .2N/80</td>
</tr>
<tr>
<td></td>
<td>MTDCRF25-1.1 25mm DCRF Motor, 1.1N/40r</td>
</tr>
<tr>
<td>MTDCPS-28-35-45 Power Supply for 28/35/45mm DCRF (no Battery) Mtr 28mm DC ARC</td>
<td>MTDCRFQ28-2 28mm DCRF Quiet Motor, 2N/28r</td>
</tr>
<tr>
<td></td>
<td>MTDCRF35-3 35mm DCRF Motor, 3N/28r</td>
</tr>
<tr>
<td></td>
<td>MTDCRFQ45-3 45mm DCRF Quiet Motor, 3N/28r</td>
</tr>
<tr>
<td></td>
<td>MTDCRF45-10 45mm DCRF Motor, 10N/9r</td>
</tr>
<tr>
<td>MTDCKR-28 Rechargeable Wand</td>
<td>MTDCRF18-0.2</td>
</tr>
<tr>
<td></td>
<td>MTDCRF25-1.1</td>
</tr>
<tr>
<td></td>
<td>MTDCRFQ28-2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Extension Cables</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTDC-CBLXT6 DC Battery Motor Cable extender 6” / 155mm</td>
<td>6 inch</td>
</tr>
<tr>
<td>MTDC-CBLXT48 DC Battery Motor Cable extender 48” / 1220mm</td>
<td>48 inches</td>
</tr>
<tr>
<td>MTDC-CBLXT96 DC Battery Motor Cable extender 96” / 2440mm</td>
<td>96 inches</td>
</tr>
</tbody>
</table>

Ensure cable is kept clear of fabric.
Ensure antenna is kept straight and away from metal objects.
### 3.1 Motor state test

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

<table>
<thead>
<tr>
<th>P1 Press</th>
<th>Condition</th>
<th>Function Achieved</th>
<th>Visual Feedback</th>
<th>Audible Feedback</th>
<th>Function Described</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Press</td>
<td>If limit is NOT set</td>
<td>None</td>
<td>No Action</td>
<td>None</td>
<td>No Action</td>
</tr>
<tr>
<td></td>
<td>If limits are set</td>
<td>Operational control of motor, run to limit. Stop if running</td>
<td>Motor runs</td>
<td>None</td>
<td>Operational control of motor after pairing and limit setting is completed first time</td>
</tr>
<tr>
<td></td>
<td>If motor is in “Sleep Mode” &amp; limits are set</td>
<td>Wake and control</td>
<td>Motor wakes and runs in a direction</td>
<td>None</td>
<td>Motor is restored from Sleep Mode and RF control is active</td>
</tr>
</tbody>
</table>

### 3.2 Motor configuration options

The P1 Button is utilized to administer motor configuration as described below and beginning in Section 3.2 Motor configuration options

#### Activate Pairing Mode

Approx. 2 SECS

Motor Response

RELEASE P1

#### Sleep Mode

Approx. 6 SECS

Motor Response

RELEASE P1

#### Reverse Direction

Approx. 10 SECS

Motor Response

RELEASE P1

#### Reset To Factory Settings

Approx. 14 SECS

Motor Response

**NOTE**

Reverse motor direction from P1 button only when motor does not have any limits.
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 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

⚠️ 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

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

To save upper limit, hold UP and STOP.

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
- **JOG** \(\times 1\)
- **EXT. BEEP** \(\times 1\)

### 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
- **JOG** \(\times 2\)
- **BEEP** \(\times 3\)
- **EXT. BEEP** \(\times 1\)
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

Approx. 2 SECS
RELEASE P1
JOG X1
EXT. BEEP X1

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

JOG X1
BEEP X1

Motor Response

JOG X1
BEEP X1

Motor Response

JOG X2
BEEP X3

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.
- Press **STOP** on controller.
- Press **STOP** on controller.

Motor Response

```
<----|--->  <----|--->  <----|--->
JOG X1  BEEP X1  BEEP X1
```

7.2 Send shade to favorite position

Hold **STOP** on controller.

Motor Response

```
<----|--->
Approx. 2 secs
```

7.3 Delete favorite position

Press **P2** on controller.
Press **STOP** on controller.
Press **STOP** on controller.

Motor Response

```
<----|--->
JOG X1  BEEP X1  EXT. BEEP X1
```

ROLLEASE ACMEDA
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:

Press **P2** on controller.

To increase speed:

Press **UP**.

Press **UP**.

To decrease speed:

Press **DOWN**.

Press **DOWN**.

Motor Response

- **JOG X1**
- **BEEP X1**

Motor Response

- **JOG X1**
- **BEEP X1**

Motor Response

- **JOG X2**
- **BEEP X1**

**IMPORTANT**

If motor does not react to speed adjustment, the maximum or minimum speed has already been reached.
9 TILT & ROLLER MODE

9.1 Enter tilt mode
For slat adjustment on venetians.

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

Motor Response

| Approx 5 secs | JOG x1 |

9.2 Enter roller mode (Default)

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

Motor Response

| Approx 5 secs | JOG x1 |

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

Motor Response

| JOG x1 | RELEASE P1 |

Exit Sleep Mode

Exit sleep mode once the shade is installed

Hold **P1** button on the motor head

Motor Response

| JOG x1 | BEEP x2 |

| JOG x1 | BEEP x1 |
## 11 TROUBLESHOOTING

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor is not responding</td>
<td>Batteries in wand are depleted</td>
<td>Replace 8 x AA alkaline batteries.</td>
</tr>
<tr>
<td></td>
<td>A/C power supply not plugged in.</td>
<td>Check motor to power cable connection and AC plug.</td>
</tr>
<tr>
<td></td>
<td>Transmitter battery is discharged</td>
<td>Replace battery</td>
</tr>
<tr>
<td></td>
<td>Battery is inserted incorrectly into transmitter</td>
<td>Check battery polarity</td>
</tr>
<tr>
<td></td>
<td>Radio interference/shielding</td>
<td>Ensure transmitter is positioned away from metal objects and the aerial on motor or receiver is kept straight and away from metal</td>
</tr>
<tr>
<td></td>
<td>Receiver distance is too far from transmitter</td>
<td>Move transmitter to a closer position</td>
</tr>
<tr>
<td></td>
<td>Power failure</td>
<td>Check power supply to motor is connected and active</td>
</tr>
<tr>
<td></td>
<td>Incorrect wiring</td>
<td>Check that wiring is connected correctly (refer to motor installation instructions)</td>
</tr>
<tr>
<td>Motor beeps 10 times when in use</td>
<td>Battery voltage is low.</td>
<td>Replace batteries in battery wand -OR- Recharge rechargable battery pack.</td>
</tr>
<tr>
<td>Cannot program a single Motor (multiple motors respond)</td>
<td>Multiple motors are paired to the same channel.</td>
<td>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 motors into sleep mode (ref to P1 button function overview - Section 3)</td>
</tr>
</tbody>
</table>