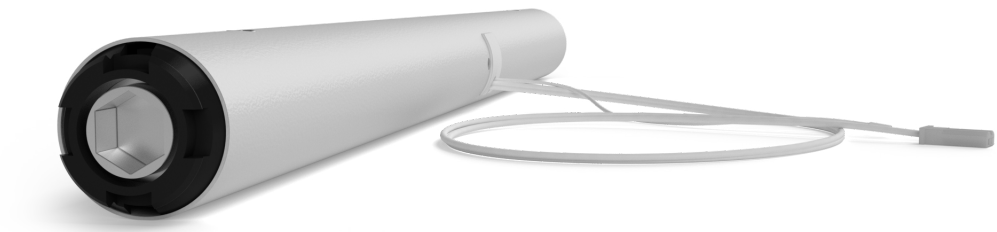
AUTOMATE®

MOTOR PROGRAMMING INSTRUCTIONS

Top Down Bottom Up Center Mount Motor



Part number	Description
MT01-3101-069004	TDBU Center Mount 12VDC Motor [2X0.6Nm/34RPM]

ARC

433.92 MHZ BI-DIRECTIONAL

ELECTRONIC LIMIT

SELECTABLE RPM

FAVORITE POSITION

LEVEL CONTROL

TDBU Center Mount Motor is a dual-shaft motor designed for independent top-down and bottom-up motion.

This low-voltage DC motor is compatible with Cellular shades and offers versatile power source options, providing flexibility for seamless integration into your shading system.

FEATURES:

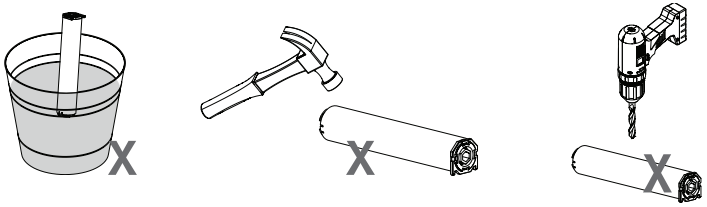
- Smart Home Control
- IOT Integration
- Electronic Limits
- 433.92 MHz Bi-Directional RF Communication
- Leveling Control
- 3 x Selectable Rpm (28-34-40)
- Favorite Position
- Roller & Tilt Modes.

CONTENTS

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.

COMPLIANCE STATEMENT

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

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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;
2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

NOTE: 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.

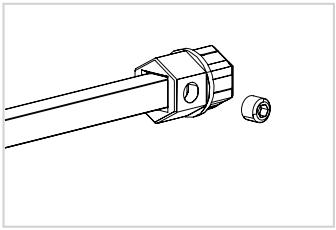
Do not dispose of in general waste.
Please recycle batteries and damaged electrical products appropriately.

1 ASSEMBLY

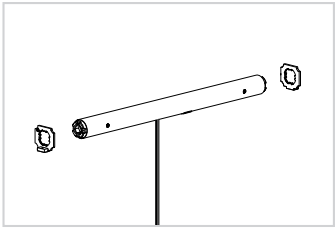
1.1 TDBU Motor

The 0.8Nm Automate Cord Lift motor can be installed at any position inside the aluminum extrusion.

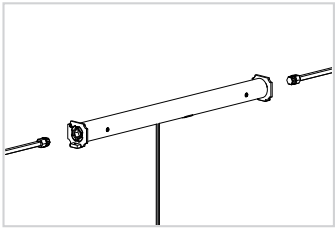
Step 1. Secure the shaft adapter to the shaft with a grub screw (2 assemblies required).



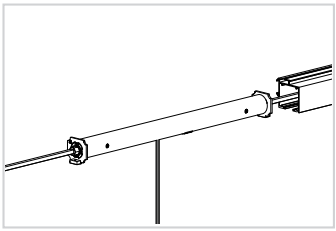
Step 2. Attach Headrail Adapters to the motor (2 each required).



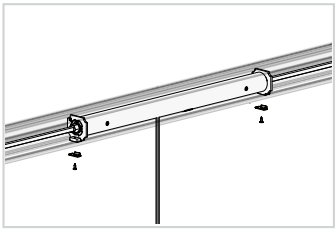
Step 3. Attach the shaft with adapter to the Motor assembly.



Step 4. Insert Motor assembly into the headrail. Ensure shaft adapter fully engages with the motor drive recess.



Step 5. Ensure power cord and antenna extend freely from the headrail. Anchor the Motor to the headrail where desired.

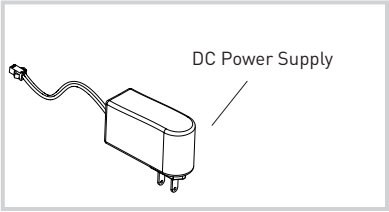


2 WIRING

2.1 Power Option

Automate DC motors are powered from a 12V DC power source. Re-chargeable battery packs and A/C Adapters 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).

- Motor will stop running when the voltage is lower than 6.5V



Power Supply	Motor
MTBWAND18-25 Battery Tube for DCRF (no Battery) Motors	MT01-3101-069004
MTDCPS-18-25 Power Supply for 18/25-CL/Tilt DCRF (no Bttry) Motor	
MT03-0305-069013 and MT03-0305-069014 Rechargeable Battery Pack.	

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

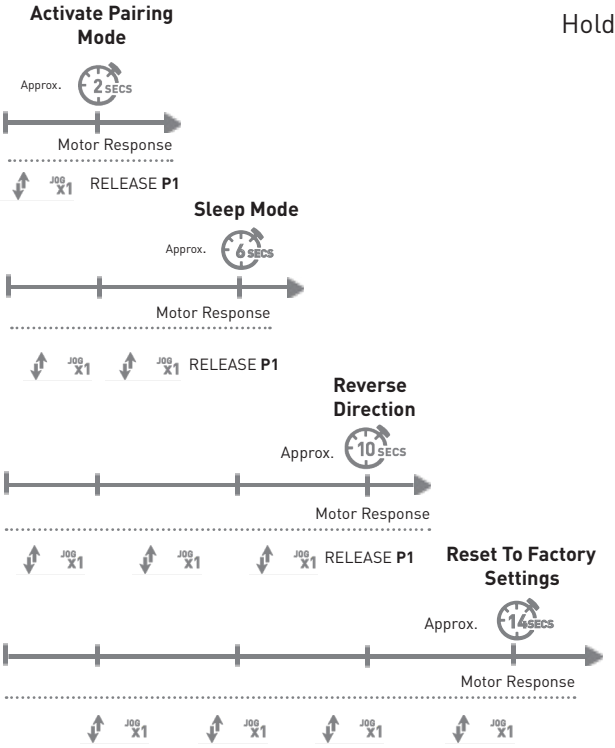
3.1 Motor State Test

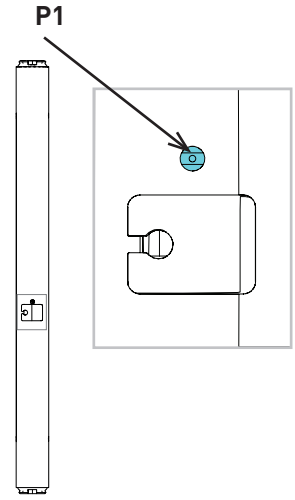
This table describes the function of a short **P1** button press/release(<2 seconds) depending on current motor configuration.

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.





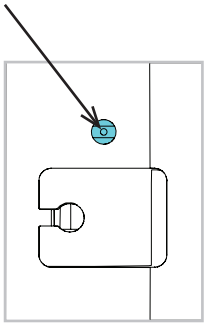
4 INITIAL SET-UP

4.1 Pair Motor with controller

Select channel on controller.

(Disregard if using single channel 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

JOG X1 RELEASE **P1**

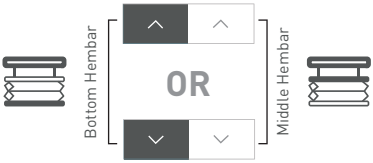
Motor Response

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.

Limits cannot be set unless both motors are in the same position. Ensure both motors are in same position when setting.

Set upper limit

Move the middle hembar to the desired top limit by pressing the right **UP** button repeatedly.

Move the bottom hembar to the desired top limit by pressing the left **UP** button repeatedly.

Then press and hold left **UP** & left **STOP** buttons together for 2 seconds to save the top limit for both rails.

Set lower limit

Move the bottom hembar to the desired bottom limit by pressing the left **DOWN** button repeatedly.

Move the middle hembar to the desired bottom limit by pressing the right **DOWN** button repeatedly.

Then press and hold left **DOWN** & left **STOP** buttons together for 2 seconds to save the bottom limit for both rails.

Initial set-up is now complete

5 ADJUSTING LIMITS

5.1 Adjust upper limit

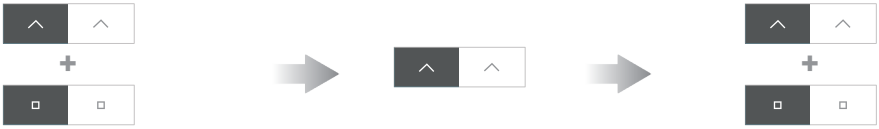
IMPORTANT

Limits cannot be set unless both motors are in the same position. Ensure both motors are in same position when setting.

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. 8 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. 8 SECS JOG x1

Motor Response

JOG x2

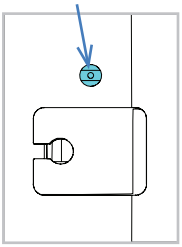
IMPORTANT

Consult user manual for your controller or sensor.

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

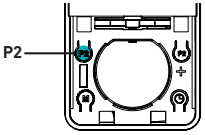
Approx. 2 SECS JOG x2

6.2 Using a pre-existing controller

A= Existing controller or channel (to keep)

B= Controller or channel or add or remove

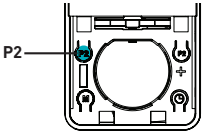
Press **P2** on existing controller.



Motor Response

JOG x1

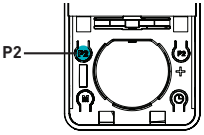
Press **P2** on existing controller.



Motor Response

JOG x1

Press **P2** on new controller.



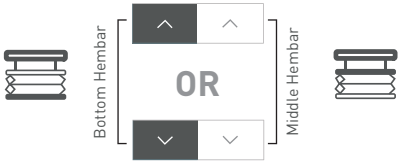
Motor Response

JOG x2

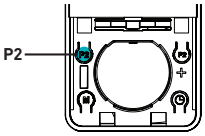
7 FAVORITE POSITIONING

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

Hold **STOP** on controller.

Motor Response

Hold **STOP** on controller.

Motor Response

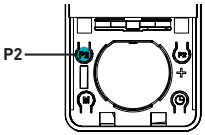
7.2 Send shade to favorite position

Hold **STOP** on controller.

Approx. 

7.3 Delete favorite position

Press **P2** on controller.



Motor Response

Hold **STOP** on controller.

Motor Response

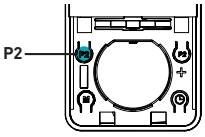
Hold **STOP** on controller.

Motor Response

8 ADJUSTING MOTOR SPEED

8.1 Increase or decrease motor speed

Press **P2** on controller.



To increase speed.

Press **DOWN**

Press **DOWN**

To decrease speed.

Press **DOWN**

Press **DOWN**

Motor Response

Motor Response

Motor Response

IMPORTANT

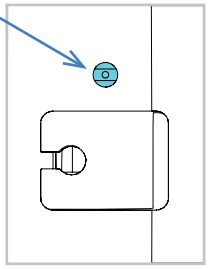
If motor does not react to speed adjustment, the maximum or minimum speed has already been reached.

9 SLEEP MODE

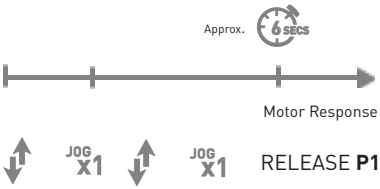
9.1 Enter sleep mode

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

Hold **P1** button on motor head.



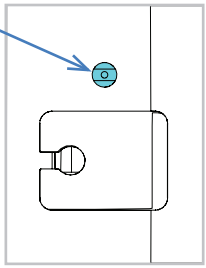
Motor Response



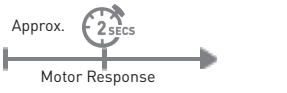
9.2 Exit sleep mode

Exit sleep mode once shade is installed.

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



Motor Response



10 TROUBLESHOOTING

Problem	Cause	Remedy
Motor is not responding	A / C Adapter not plugged in.	Check motor to power cable connection and AC plug.
	Battery in motor is 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)

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