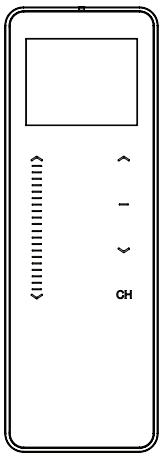
MOTORIZED ROLLER SHADES PROGRAMMING GUIDE

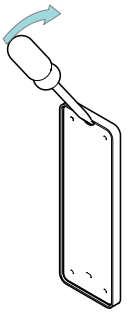
OTTO DC2



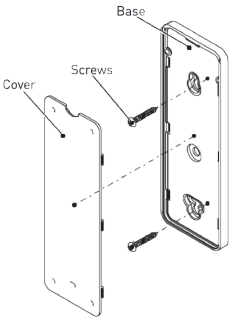
REMOTE CONTROL BASICS

Wall Mount Holder

Remove cover from base by prying with flat head screwdriver.

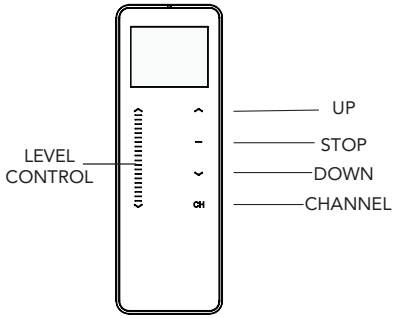


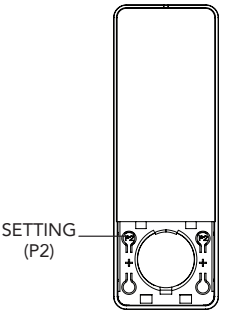
Use supplied fasteners and anchors to attach the base to wall.



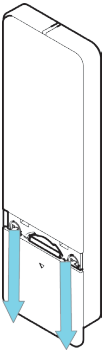
Replace cover by pressing snap latches into place.

Remote Control Functions & Battery Replacement



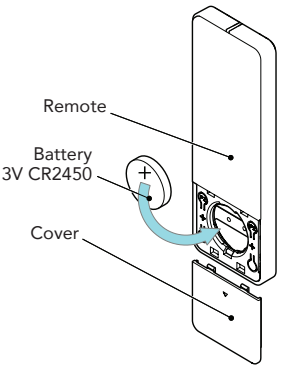


Remove cover from remote press gently in and down to disengage cover.



Slide to remove.

Install battery with positive (+) side facing up.

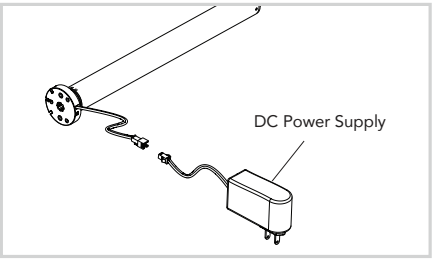


WIRING

Power Options

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.

- 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.



Ensure cable is kept clear of fabric.

Ensure antenna is kept straight and away from metal objects.

P1 BUTTON FUNCTIONS

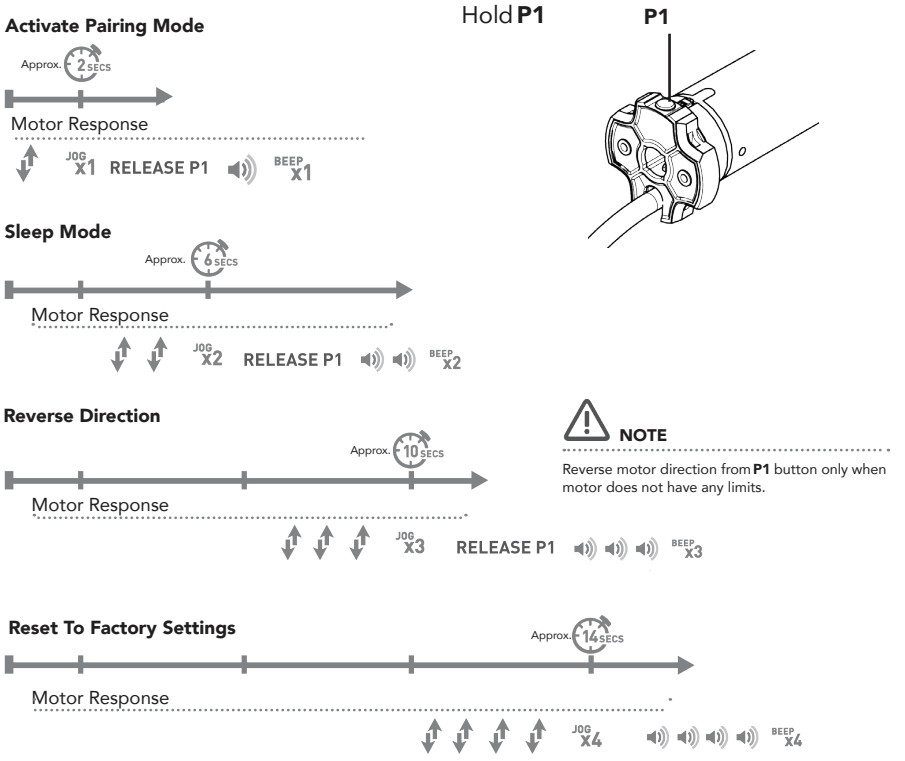
Motor state test

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

Motor configuration options

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

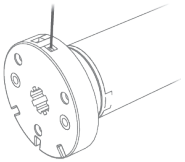


INTIAL SET-UP

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.

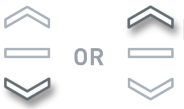
Motor Response

Motor Response

Motor is now in step mode and ready for setting limits

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 Response

IMPORANT

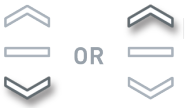
Damage to shade may occur when operating motor prior to setting limits. Attention should be given.

IMPORTANT

Reversing motor direction using this method is only possible during initial set-up.

Setting 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

IMPORTANT

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

Initial set-up is now complete

ADJUSTING LIMITS

Adjust upper limit

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

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

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

Motor Response

Motor Response

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**.

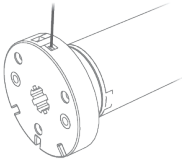
Motor Response

Motor Response

ADDING OR REMOVING CONTROLLERS AND CHANNELS

Using motor P1 button

Hold **P1** button on motor head.



Motor Response

Approx. 2 SECS — JOG x1

RELEASE P1

EXT. BEEP x1

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

Motor Response

Approx. 2 SECS — JOG x2

BEEP x3

Using a pre-existing controller

A= Exisiting controller or channel (to keep)

B= Controller or channel to add or remove

Press **P2** on existing controller.

Motor Response

JOG x1

EXT. BEEP x1

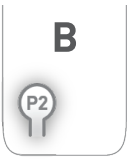
Press **P2** on existing controller.

Motor Response

JOG x1

EXT. BEEP x1

Press **P2** on new controller.



Motor Response

JOG x2

BEEP x3

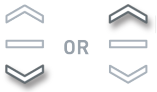
IMPORTANT

Consult user manual for your controller or sensor.

FAVORITE POSITIONING

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

Send shade to favorite position

Hold **STOP** on controller.

Delete favorite position

Press **P2** on controller.

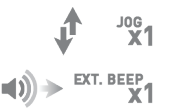
Motor Response

Press **STOP** on controller.

Motor Response

Press **STOP** on controller.

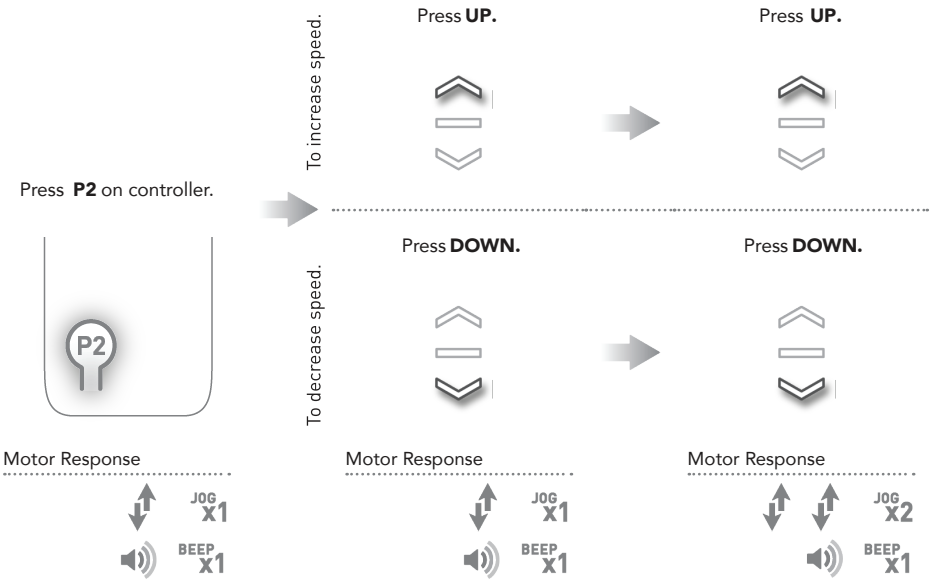
Motor Response



ADJUSTING MOTOR SPEED

Increase or descrease motor speed

To adjust motor speed, follow these three steps for each level of speed adjustment.
There are three speeds available.



IMPORTANT

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

ROLLER MODE

Enter roller mode (Default)

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

Motor Response

Approx. 5 SECS

JOG x1

Press **STOP**.

Motor Response

JOG x2

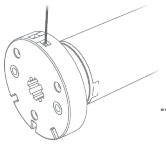
BEEP x3

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 → JOG x1

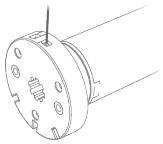
RELEASE P1

BEEP x2

Exit Sleep Mode

Exit sleep mode once the shade is installed

Hold **P1** button on the motor head



Motor Response

RELEASE P1

JOG x1 BEEP x1

TROUBLESHOOTING

Problem	Cause	Remedy
Motor is not responding	Power supply not plugged in.	Check motor to power cable connection and power 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 rechargable 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 motors into sleep mode (ref to**P1** button function overview page)