CR28DC Motor

24 V DC · Programming instructions

⚠ WARNING

STRANGULATION HAZARD — Young children can be strangled by cords. Immediately remove this product if a cord longer than 8-11/16″ [22 cm] or a loop larger than 17-5/16″ [44 cm] around becomes accessible.

Keep cords, chains and loops out of children's reach. Move cribs, beds and furniture away from window coverings.

01 Features

- ✓ Built-in radio receiver
- ✓ 24 V DC low-voltage power
- ✓ Electronic limits
- ✓ Preferred position
- ✓ Adjustable speed
- ✓ Roller and tilt modes
- ✓ Reversible rotation
- ✓ Stops if blocked
- ✓ Limits kept in memory
- ✓ Radio lock

02 Safety

Motor and shade

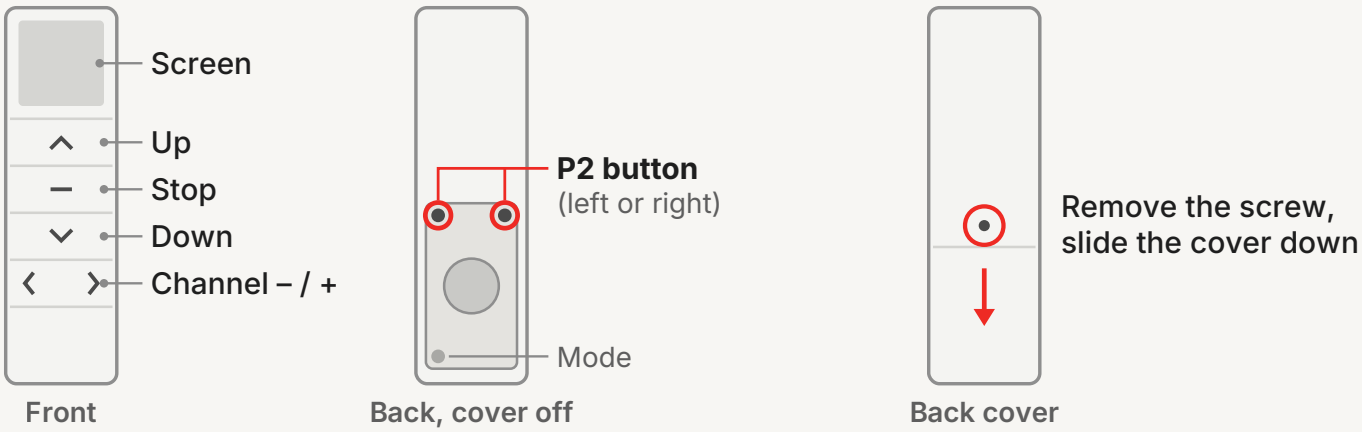
- For indoor use only. Keep the motor away from moisture and extreme temperatures.
- Do not drill into, open or repair the motor. Repairs must be done by an authorized professional.
- Mount the motor horizontally only.
- Do not let children play with the shade. Keep people clear until the shade stops.

Electrical (24 V DC)

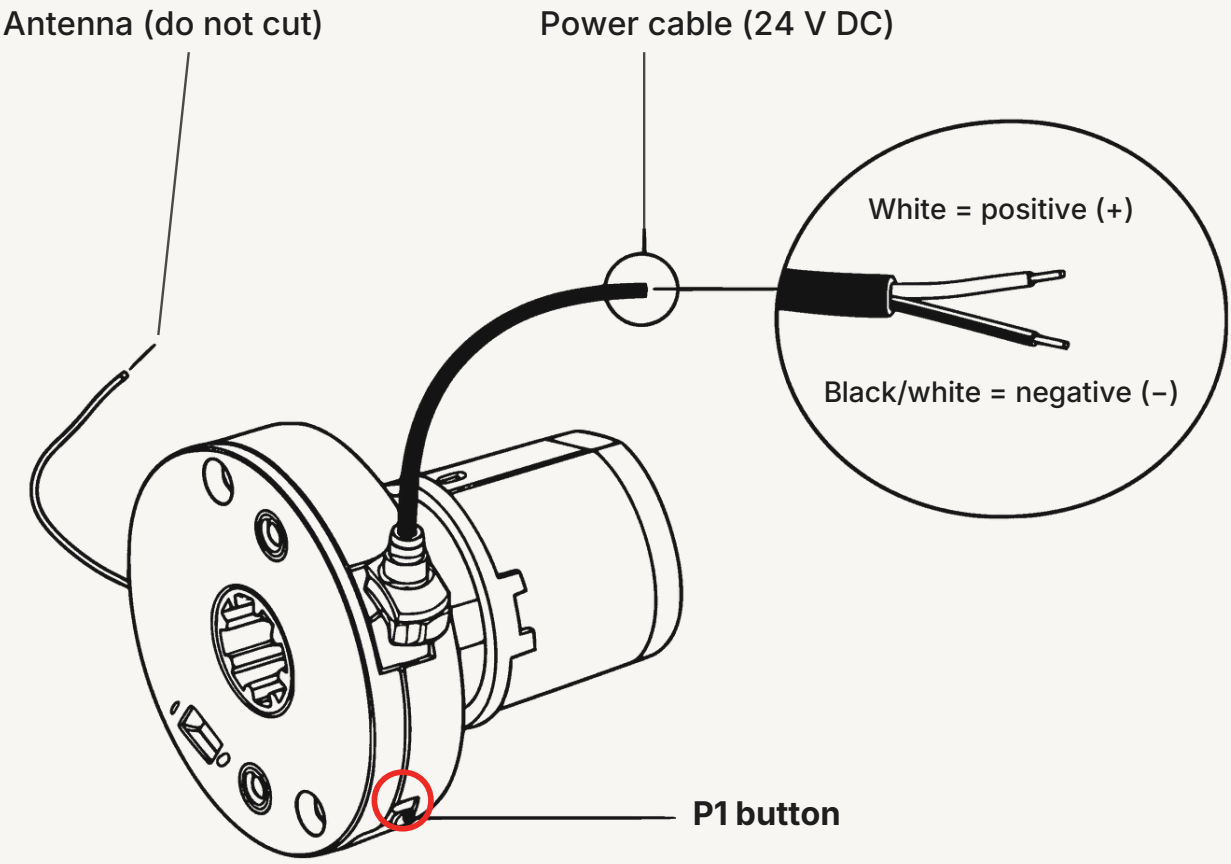
- Use only a 24 V DC power supply rated for the motor. Never connect the motor to 120 V AC mains.
- The power supply must be installed by a qualified person, following the local electrical code.
- Disconnect the power supply before connecting or disconnecting the motor.
- Keep the low-voltage cable separate from mains wiring. Do not use the motor if the cable is damaged.
- Do not cut the antenna wire, and keep it away from metal and from the power cable.

03 Product overview

Remote



Motor head and power cable



04 Setup

Complete these steps in order the first time you install the motor. The motor confirms each step with a jog (a brief back-and-forth movement) and beeps.

4.1 Wiring the motor (24 V DC)

Connect the motor to a 24 V DC power supply rated for the motor. The power supply must be installed by a qualified person, in accordance with the local electrical code. Disconnect the power supply before any wiring.

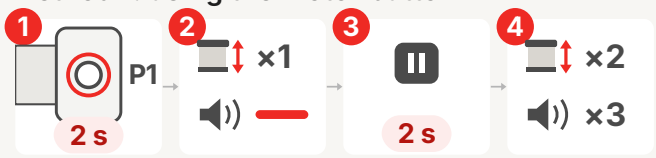
Wire	Connect to
White	Positive (+) of the 24 V DC supply
Black/white	Negative (–) of the 24 V DC supply
Antenna	Not connected. Leave it straight and exposed; do not cut or shorten it.

✓ Motor wired

Important Connect to 24 V DC only. Never connect the motor to 120 V AC mains: this damages the motor and can cause fire or electric shock. Check the polarity before switching the power on.

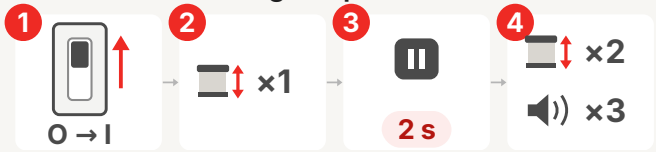
4.2 Pairing the remote

Method 1: using the motor button



1. Press P1 on the motor for 2 s
2. Motor jogs once. Release the button: it gives a long beep
3. Within 10 s, press ⏸ on the remote for 2 s
4. Motor jogs twice and beeps 3 times

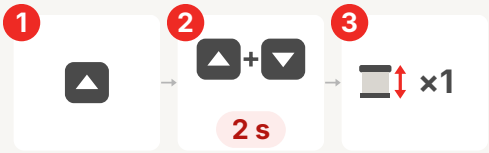
Method 2: switching the power off and on



1. Switch the 24 V power supply off (or unplug it), then back on
2. Motor jogs once
3. Within 10 s, press ⏸ on the remote for 2 s
4. Motor jogs twice and beeps 3 times

✓ Pairing complete

4.3 Reversing the rotation direction

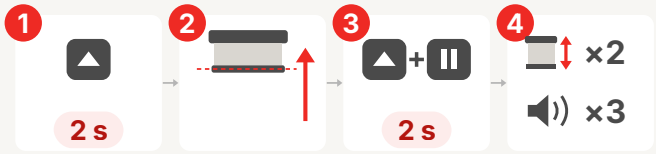


1. Press ▲ and check which way the shade moves
2. If it moves down, press ▲ + ▼ together for 2 s
3. Motor jogs once

✓ Direction reversed

Only possible before the limits are set. Once they are set, use the motor button (6.4).

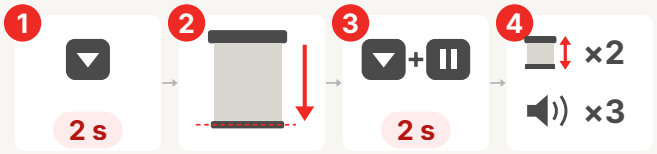
4.4 Setting the upper limit



1. Hold ▲ for 2 s: the shade starts to rise
2. Press ⏸ at the desired upper position (fine-tune with ▲ or ▼)
3. Press ▲ + ⏸ together for 2 s
4. Motor jogs twice and beeps 3 times

✓ **Upper limit set**

4.5 Setting the lower limit



1. Hold ▼ for 2 s: the shade starts to lower
2. Press ⏸ at the desired lower position (fine-tune with ▲ or ▼)
3. Press ▼ + ⏸ together for 2 s
4. Motor jogs twice and beeps 3 times

✓ **Lower limit set**

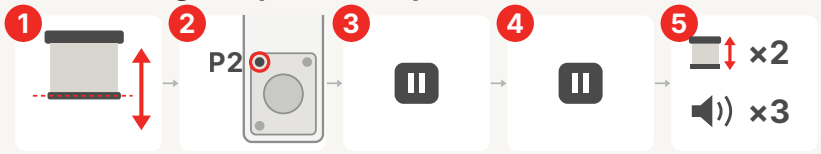
Good to know

- Wait for the motor to jog or beep before the next press. After 10 s without a press, the motor leaves the step.
- The upper and lower limits cannot be at the same position.
- If you stop partway through setting the limits, the motor keeps its previous limits.
- Limits and settings stay in memory during a power failure.
- Select the motor's channel on the remote screen (Channel – / +) before each step.
- **P2** is inside the battery compartment: remove the screw on the back and slide the cover down. Refit the cover and screw afterwards.

05 Function settings

Optional. Complete section 04 first.

5.1 Setting the preferred position

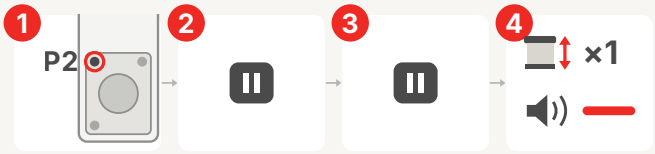


1. Run the shade to the position you want (between the two limits)
2. Press **P2** on the back of the remote. Motor jogs once and beeps once.
3. Press ⏸. Motor jogs once and beeps once.
4. Press ⏸ again
5. Motor jogs twice and beeps 3 times

✓ **Preferred position set**

To use it, press ⏸ for 2 s from any position. The shade moves to the preferred position.

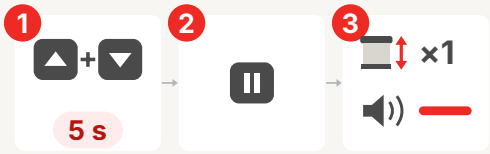
5.2 Deleting the preferred position



1. Press **P2** on the back of the remote. Motor jogs once and beeps once.
2. Press ⏸. Motor jogs once and beeps once.
3. Press ⏸ again
4. Motor jogs once and gives a long beep

✓ **Preferred position deleted**

5.3 Roller mode and tilt mode

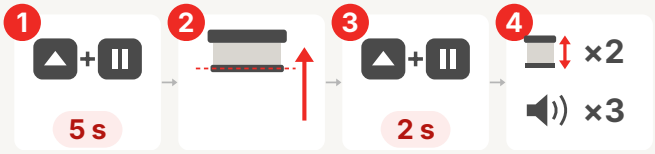


1. Press ▲ + ▼ together for 5 s. Motor jogs once.
2. Press ⏸
3. 1 jog and a long beep: tilt mode. 2 jogs and 3 beeps: roller mode

✓ **Mode changed**

- Roller mode: briefly press ▲ or ▼ and the shade runs continuously.
- Tilt mode: a brief press moves the shade in small steps. Hold for more than 2 s to run continuously.

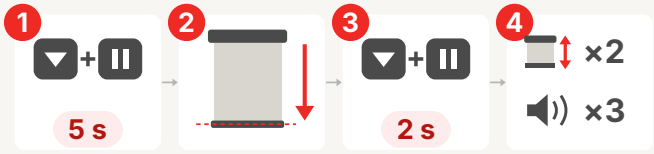
5.4 Adjusting the upper limit



1. Press ▲ + ⏸ together for 5 s. Motor jogs once and gives a long beep.
2. Move the shade to the new upper position with ▲ or ▼
3. Press ▲ + ⏸ together for 2 s
4. Motor jogs twice and beeps 3 times

✓ **Upper limit adjusted**

5.5 Adjusting the lower limit



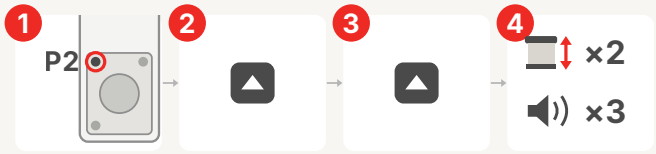
1. Press ▼ + ⏸ together for 5 s. Motor jogs once and gives a long beep.
2. Move the shade to the new lower position with ▲ or ▼
3. Press ▼ + ⏸ together for 2 s
4. Motor jogs twice and beeps 3 times

✓ **Lower limit adjusted**

The preferred position is kept. With no button press for 2 min, the motor leaves the adjustment.

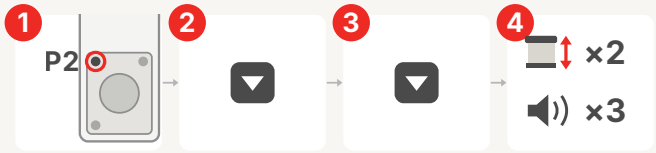
5.6 Speed

Faster



1. Press **P2**. Motor jogs once and beeps once.
2. Press ▲. Motor jogs once and beeps once.
3. Press ▲ again
4. Motor jogs twice and beeps 3 times

Slower



1. Press **P2**. Motor jogs once and beeps once.
2. Press ▼. Motor jogs once and beeps once.
3. Press ▼ again
4. Motor jogs twice and beeps 3 times

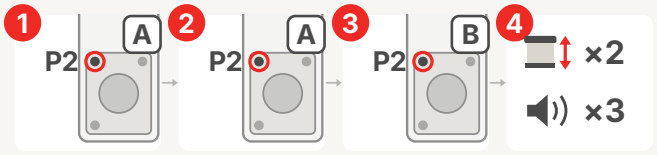
✓ Speed changed

No response means the motor is already at its highest or lowest speed.

5.7 Adding or removing a remote

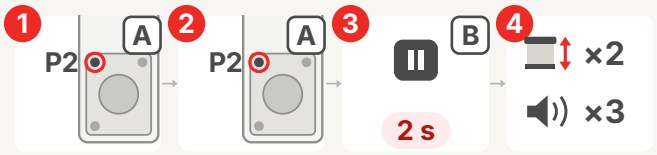
To remove a remote, repeat the same steps with that remote as B.

Method 1: P2 on the new remote



1. Press **P2** on the back of a paired remote (A). Motor jogs once and beeps once.
2. Press **P2** on remote A again. Motor jogs once and beeps once.
3. Press **P2** on the new remote (B)
4. Motor jogs twice and beeps 3 times

Method 2: STOP on the new remote



1. Press **P2** on the back of a paired remote (A). Motor jogs once and beeps once.
2. Press **P2** on remote A again. Motor jogs once and beeps once.
3. Press ⏸ on the new remote (B) for 2 s
4. Motor jogs twice and beeps 3 times

✓ Remote added or removed

06 Motor button (P1) and factory reset

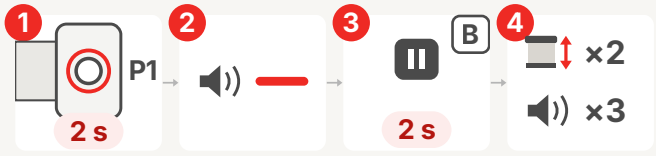
Hold P1 on the motor head until the motor confirms, then release.

6.1 Motor button (P1) at a glance

Press	Result
Briefly	Shade runs up, stops, runs down, stops (one step per press)
2 s	Pairing: add or remove a remote (4.2, 6.2)
6 s	Radio lock on or off (6.3)
10 s	Reverse direction (6.4)
14 s	Factory reset (6.5)

6.2 Adding a remote at the motor

Use this if no paired remote is at hand. Repeat to remove a remote.

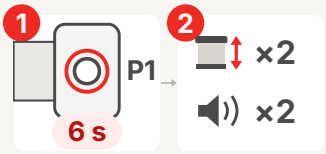


1. Press **P1** on the motor for 2 s. Motor jogs once.
2. Release the button: it gives a long beep
3. Within 10 s, press ⏸ on the new remote (B) for 2 s
4. Motor jogs twice and beeps 3 times

✓ **Remote added**

A motor stores up to 20 remote channels. When full, a new one replaces the last one added. All settings are kept.

6.3 Radio lock

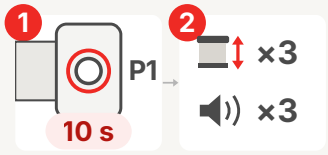


1. Press and hold **P1** on the motor for 6 s
2. Motor jogs twice. Release the button: it beeps twice

✓ **Radio lock on**

While locked, the motor ignores all remotes. To unlock, briefly press **P1**.

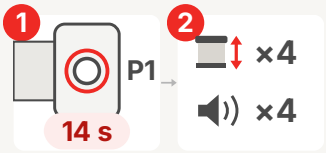
6.4 Reversing direction after the limits are set



1. Press and hold **P1** on the motor for 10 s
2. Motor jogs 3 times. Release the button: it beeps 3 times

✓ **Direction reversed**

6.5 Restoring factory settings



1. Press and hold **P1** on the motor for 14 s
2. Motor jogs 4 times. Release the button: it beeps 4 times

✓ **Factory settings restored**

All limits, remotes and settings are erased. Start again from section 04.

07 Troubleshooting

Problem	Possible cause	Solution
Motor does not respond	No power	Check the power supply, the wiring and the polarity (4.1)
	Radio lock is on	Briefly press P1 on the motor
	Remote battery low	Replace the remote battery
	Out of range or radio interference	Move closer. Keep the antenna exposed and away from metal
One remote moves several motors	Several motors are paired on the same channel	Pair each motor to its own channel
Motor runs slowly, is noisy or does not run	Shade too heavy or not installed correctly	Check the installation and the shade size
Shade stops partway	Lower limit set too high	Adjust the limit (5.5)
	Motor ran for a long time and is protecting itself from overheating	Wait 15 to 20 minutes, then try again

08 Specifications

Specification	Value
Model	CR28DC
Power supply	24 V DC
Power cable	2 wires: white (positive +), black/white (negative –)
Radio frequency	433.92 MHz

CBM

Contact
Canadian Blind Manufacturing Inc.
13040 Worster Ct, Richmond, BC V6V 2B3
604.821.1188 · sales@cblind.ca · cdnblind.com

CR28DC 24V DC Motor

Read and keep with the product instructions

01 FCC 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.

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

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 the receiver; connect the equipment to an outlet on a circuit different from the one the receiver is connected to; consult the dealer or an experienced radio/TV technician for help.

The FCC ID is printed on the product label.

02 Coin battery warning (remotes)

⚠ WARNING

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH OF CHILDREN**.
- Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body. National Battery Ingestion Hotline: 1-800-498-8666.
- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Battery: 3 V lithium coin cell; the type (for example CR2450) is marked in the battery compartment. Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- Make sure the battery is installed correctly according to polarity (+ and –).
- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the battery and keep it away from children.