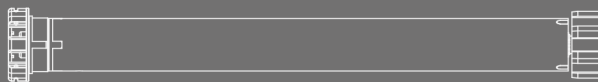


DM45LEAF/S

Instruction | A-02



Features

- Built-in Receiver
- Jog Mode
- Built-In Lithium Battery
- Sensor Compatible
- Reset to Factory Mode
- Switch Direction
- Stall Protection
- Switchable Motor Mode
- Radio Lock
- Electronic Limit
- Preferred Stop Position
- Manual/Auto Debugging
- Rollback Function

Fields of Application



For motorized zip screen.

IMPORTANT: The motor MUST BE fully charged every 6 months regardless of usage.

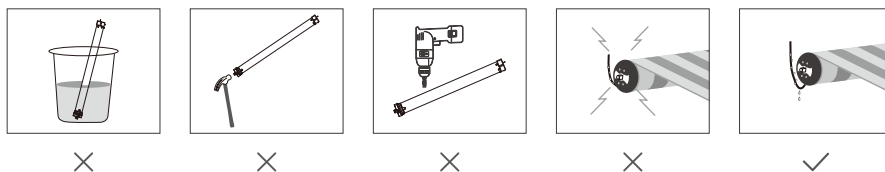
Specifications

Working Temperature: -10°C ~ +60°C	Radio Frequency: 433.92MHz
Rated Voltage: 12VDC	Max. Single Running Time: 6min

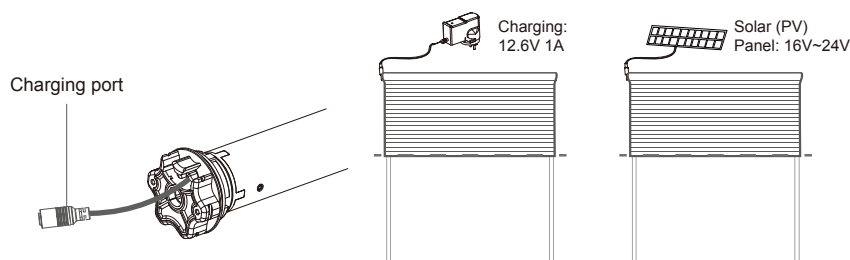
* For more motor models and specific torque, please refer to the nameplate.

Attention

Never drop, knock, drill into, or submerge the motor. Keep the power cable in the correct position as shown below. Important safety instructions to be read before installation. Incorrect installation may cause serious injury and will void the manufacturer's liability and warranty.

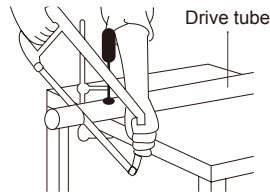


Charging Instructions



1. This motor has a 12V built in Li-ion battery pack with integrated charge management.
2. Maximum charger charging input: 12.6V 1A.
3. Before first use please charge motor for 6 hours.
4. When the motor is below a certain voltage, it will beep 10 times during continuous operation, it means low voltage alarm and need recharging.

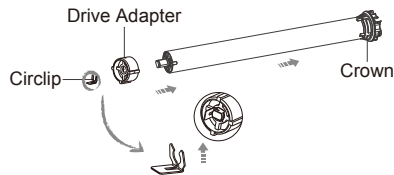
Motor Installation



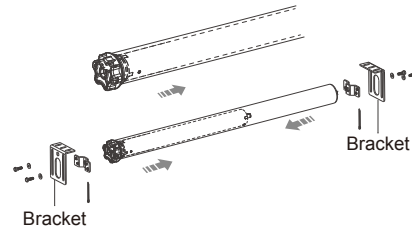
Step 1. Cut the drive tube to the required length.



Step 2. Ensure the tube edge is clean and burr-free.



Step 3. Install the correct crown and drive adapter on the motor. Ensure the drive adapter is securely installed and the crown rotates freely.



Step 4. Align the notches of the crown and drive adapter with the drive tube. Slide the motor into the drive tube and secure it. Install the tail plug bracket and travel bracket on both ends.

Caution

1. Do not expose the motor to humid or extreme temperature conditions.
2. Do not drill into motor.
3. Do not cut the antenna, and keep it away from metal objects.
4. Do not allow children to play with this device.
5. If power cable or connector is damaged, do not use.
6. Ensure the correct crown and drive adapter are used.
7. Ensure power cable and aerial is clear and protected from moving parts.
8. Cable routed through walls shall be properly isolated.
9. Motor is to be mounted in horizontal position only.
10. Before installation, remove unnecessary cords and disable equipment not needed for powered operation.
11. Installation and programming to be performed by a qualified professional, use or modification outside the scope of this instruction may void the warranty.



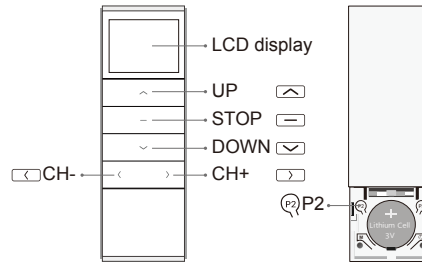
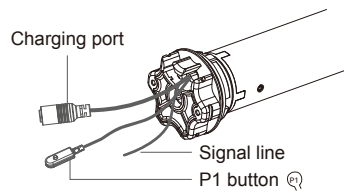
Important Safety Instructions To Be Read Prior To Operation.

Setting Notice

Please read following points of attention carefully before setting.

1. Don't operate motors when low voltage alarm.
2. Operating:
 - ①Please operate the buttons within 10 seconds. The emitter will exit the setting mode if no operation is performed within this time.
 - ②The motor will jog or beep as reminder after every setting step, please operate next step after the reminder.
3. Set limit position:
 - ①After the upper/lower limit setting, and the upper/lower limit position can't be at the same position.
 - ②After setting the limits, the motor retains power-off memory function.
 - ③Limit delete will clear all limit memory.
 - ④It will exit limit setting when program there is no operation for 2 minutes.
4. If the paired emitter is lost, pair a new one following the same steps.
5. One motor can store maximum 10 channels; after fully stored, if pairing a new channels, only the last one will be covered circularly.

Button Instructions



Functions of the P1 Button

- Cyclic operation:** Press P1 button once, the motor will run UP → STOP → DOWN → STOP... in cycles.
- Pairing or Pairing Additional Emitter or Deleting Emitter:** Press and hold the P1 button for 2 seconds, the motor jogs once, release button, the motor long beeps once, if in factory mode, motor is ready for pairing. If in user mode, motor is ready for pairing additional emitter or deleting emitter.
- Radio Lock:** Press and hold the P1 button for 6 seconds, the motor jogs twice, release button, the motor beeps twice, the motor enters radio lock status, the motor won't receive any signal; press P1 button once to disable Radio Lock.
- Switch Direction:** Press and hold the P1 button for 10 seconds, the motor jogs 3 times, release button, the motor beeps 3 times, the motor direction is switched successfully.
- Reset to Factory Mode:** Press and hold the P1 button for 14 seconds, the motor jogs 4 times and beeps 4 times, the motor resets to factory mode, all the previous settings and emitters have been deleted. At this point the motor will go into deep sleep. The motor cannot be controlled in deep sleep mode. At this time, you need to press P1 button for 2 seconds and then the motor jogs to prompt to exit deep sleep.

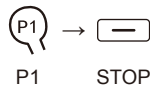


Essential Settings

The steps in factory mode must be completed to ensure proper operation.

Factory mode

1 Pairing



After the motor is powered up (1 jog and 1 long beep), or press and hold the P1 button for 2 seconds (1 jog), release button, the motor long beeps once, within 10 seconds, press STOP for 2 seconds (2 jogs and 3 beeps), the motor is paired successfully.

* If within 10 seconds, the motor doesn't receive STOP signal from the any emitter, it will exit the pairing mode automatically. After power off and power on again, if the motor has saved the emitter, there will be no jog and beep for hint, and it will not automatically enter the pairing status at this time.

2 Switch Rotating Direction (Optional)

If pressing UP makes the motor run downward, switch the direction as follows.



Press and hold the UP and DOWN buttons simultaneously for 2 seconds (1 jog), the direction is switched successfully.

* The motor needs to be in the reversing operation without limit. If the motor has already set the upper and lower limit, then you can switch direction by P1 button.

3 Setting Upper and Lower Limits

1 Set upper limit



Press and hold the UP for 2 seconds, move the motor to the desired upper limit position, press and hold the UP and STOP buttons simultaneously for 2 seconds (2 jogs and 3 beeps), the upper limit is set.

2 Set lower limit



Press and hold the DOWN for 2 seconds, move the motor to the desired lower limit position, press and hold the DOWN and STOP buttons simultaneously for 2 seconds (2 jogs and 3 beeps), the lower limit is set.

* The upper limit position and lower limit position cannot be set at the same position. After the limits have been set successfully, the motor will enter the user mode.

3 Automatic limits setting (Only mode 1 is valid)



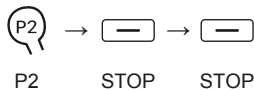
UP

The motor without limits and keep the curtain in the middle position. Press and hold the UP for 2 seconds, the motor will run continuously upward for more than 3 seconds and stop after detecting obstacle, the upper limit is set. Then the motor will run downward automatically and stop after detecting the obstacle, the curtain is pulled in reverse according to the weight of the bottom beam, after the tension is applied, the motor stops at this position, the lower limit is set.

User mode

1 Add A Preferred Position

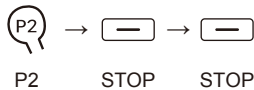
1 Set preferred position



After setting the limits, press UP or DOWN, move the product to the desired preferred position. Press P2 once (1 jog and 1 beep), press STOP once (1 jog and 1 beep), press STOP once again (2 jogs and 3 beeps), the preferred position is set.

* Press and hold the STOP for 2 seconds, the motor moves to preferred position automatically.

2 Delete preferred position



Press P2 once (1 jog and 1 beep), press STOP once (1 jog and 1 beep), press STOP once again (1 jog and 1 long beep), the preferred position is deleted.

2 Adjust Limits

1 Adjusting the upper limit position



Press and hold the UP and STOP buttons simultaneously for 5 seconds (1 jog and 1 long beep), press UP or DOWN, move the motor to the desired new upper limit position, press and hold the UP and STOP buttons simultaneously for 2 seconds (2 jogs and 3 beeps), the new upper limit is programmed successfully.

2 Adjusting the lower limit position



Press and hold the DOWN and STOP buttons simultaneously for 5 seconds (1 jog and 1 long beep), press UP or DOWN, move the motor to the desired new lower limit position, press and hold the DOWN and STOP buttons simultaneously for 2 seconds (2 jogs and 3 beeps), the new lower limit is programmed successfully.

* After the new limits are set, the original preferred position will not be deleted.
If there is no operation in the limit adjusting mode, the motor will stop for 2 minutes, and then it will jog once, and then it will automatically returns to the user mode.
When adjusting the limits, only the P1 button can be used for direction change settings, and then exit the adjusting status.
Press and hold P1 button for more than 2 seconds to exit the limit adjusting mode.

3 Switch Between Jog Mode & Continuous Running Mode



Press and hold the UP and DOWN buttons simultaneously for 5 seconds (1 jog), press STOP once, if the motor jogs once and long beeps once, the motor is switched to jog mode. If the motor jogs twice and beeps 3 times, the motor is switched to continuous running mode.

* When in jog mode, press UP or DOWN once, the motor will run in jog mode, if pressing more than 2 seconds, the motor will run continuously.

4 Motor Mode Switching



Press P2 once (1 jog and 1 beep), press UP once (1 jog and 1 beep), press UP once again, if the motor jogs twice and beeps 3 times, the motor is switched to mode 2. If the motor jogs once and long beeps once, the motor is switched to mode 1.

* Factory default mode 1;

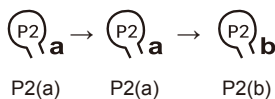
Mode 1 is applied to the zip screen motor with no self-locking structure, can automatically set the limit, without the automatic return function of the lower limit;

Mode 2 is equipped with zip screen motor with self-locking structure, and automatic return function for lower limit (automatic locking and unlocking).

If the motor is at the lower limit position, after switching to Mode 2, press the UP button, the motor will first run downward to unlock and then run upward.

5 Pairing / Deleting Additional Emitter

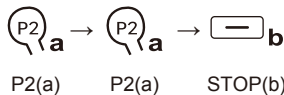
Method 1



Press P2 once (1 jog and 1 beep) and P2 once (1 jog and 1 beep) on the existing emitter, press P2 once on the new emitter (2 jogs and 3 beeps), new emitter is paired to the motor.

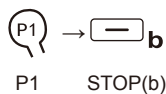
• Repeating this procedure will delete the newly paired emitter.

Method 2



Press P2 once (1 jog and 1 beep) and P2 once (1 jog and 1 beep) on the existing emitter, press and hold the STOP on the new emitter for 2 seconds (2 jogs and 3 beeps), new emitter is paired to the motor.

Method 3



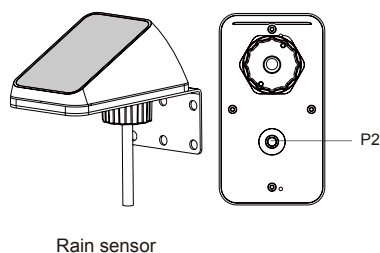
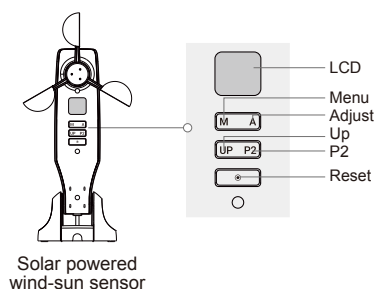
Press and hold the P1 button for 2 seconds (1 jog), release button, the motor long beeps once. Press and hold the STOP on the new emitter for 2 seconds (2 jogs and 3 beeps), new emitter is paired to the motor.

• Repeating this procedure will delete the newly paired emitter.

* (a) as existing emitter, (b) as new emitter to pair/delete; All the setting of the motor will be kept after adding the new emitter.

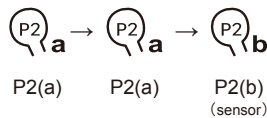


Pair With Wind-Sun Sensors and Rain Sensors



6 Adding / Deleting Sensor

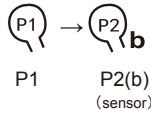
Method 1



Press P2 once (1 jog and 1 beep) and P2 once (1 jog and 1 beep) on the existing emitter, press P2 once on the new sensor (2 jogs and 3 beeps), the new sensor is paired to the motor.

• Repeating this procedure will delete the newly paired sensor.

Method 2



Press and hold the P1 button for 2 seconds (1 jog), release button, the motor long beeps once. Press P2 once on the new sensor (2 jogs and 3 beeps), the new sensor is paired to the motor.

* (a) as existing emitter, (b) as new sensor to pair/delete. Add multiple sensors only currently valid, other are covered.

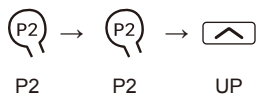
7 Enable / Disable Sensor Detection Function



Press P2 once (1 jog and 1 beep), press UP once (1 jog and 1 beep), press STOP once, if the motor jogs once and long beeps once, the sensor detection function is disabled. If the motor jogs twice and beeps 3 times, the sensor detection function is enabled.

* The sensor detection function is enabled by default.

8 Enable / Disable Sun Detection



Press P2 once (1 jog and 1 beep), press P2 once again (1 jog and 1 beep), press UP once, if the motor jogs once and long beeps once, Sun detection is disabled. If the motor jogs twice and beeps 3 times, Sun detection is enabled.

* The sun detection is enabled by default.

9 Enable / Disable Rain Detection



Press P2 once (1 jog and 1 beep), press P2 once again (1 jog and 1 beep), press DOWN once, if the motor jogs once and long beeps once, rain detection is disabled. If the motor jogs twice and beep 3 times, rain detection is enabled.

* The rain detection is enabled by default.

10 Sensor Control

When limits are set:

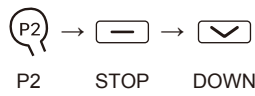
If the wind-sun sensor sends a command for strong wind and weak light, and the rain sensor sends a command for heavy rain, the motor will move to the upper limit position.

If the wind-sun sensor sends a command for strong light and the rain sensor sends a command for light rain, the motor will move to the lower limit position.

Once the motor receives a strong wind command, it cannot be controlled for 8 minutes.

The strong wind command can only be executed when the motor is idle (not in operation).

11 Manual/Auto Debugging Rollback Function (Only mode 2 is valid)



Press P2 once (1 jog and 1 beep), press STOP once (1 jog and 1 beep), press DOWN once, if the motor jogs twice and beeps 3 times, the motor is switched to manual debugging rollback function. If the motor jogs once and long beeps once, the motor is switched to auto debugging rollback function.

* The factory default setting is the auto debugging rollback function.
 After setting the limits, the motor runs to the lower limit position and then retreats a short distance in the opposite direction to tighten the fabric.
 If the motor runs upward from the retreat position, it must first run to the lower limit position and then run upward to release the fabric.

12 Downward Stall Detection Rollback Function (Sensitive stall detection)



Press P2 once (1 jog and 1 beep), press DOWN once (1 jog and 1 beep), press DOWN once again, if the motor jogs once and long beeps once, sensitive stall detection function is disabled. If the motor jogs twice and beeps 3 times, sensitive stall detection function is enabled.

* The downward stall detection rollback function is enabled by default.
 If there is a limit, the motor is in the upward direction, it will be repelled and protected. After rebounding for a certain distance, it will continue to run upwards. If it encounters resistance at the same position twice, it will stop after the second resistance rebound. If there is no limit, the motor will run upward and stop after detecting obstacle.
 If there is a limit, the motor is in the downward direction, it will be repelled and protected. After rebounding for a certain distance, it will continue to run downward. If it encounters resistance at the same position twice, it will stop after the second encounter with the rebound. If there is no limit, light resistance does not work.

Quick Index

	Settings	Steps
1	Pairing	P1 (press 2S) → Stop
2	Switch Rotating Direction	Up + Down
3	Upper and Lower Limits Setting	1 Set upper limit Up → Up + Stop
		2 Set lower limit Down → Down + Stop
		3 Automatic limits setting (Only mode 1 is valid) Up
4	Add / Delete Preferred Position	P2 → Stop → Stop
5	Adjust Limits	1 Adjusting the upper limit Up + Stop → Up or Down → Up + Stop
		2 Adjusting the lower limit Down + Stop → Up or Down → Down + Stop
6	Switch Between Jog Mode & Continuous Running Mode	Up + Down → Stop
7	Motor Mode Switching	P2 → Up → Up
8	Pairing / Deleting Additional Emitter	1 Pairing / Deleting Additional Emitter P2(a) → P2 (a) → P2(b)
		2 Pairing Additional Emitter P2(a) → P2 (a) → Stop(b)
		3 Pairing / Deleting Additional Emitter P1 (press 2S) → Stop(b)
9	Adding / Deleting Sensor	1 Adding / Deleting Sensor P2(a) → P2 (a) → P2(b) (sensor)
		2 Adding One Sensor P1 (press 2S) → P2(b) (sensor)
10	Enable / Disable Sensor Detection Function	P2 → Up → Stop
11	Enable / Disable Sun Detection	P2 → P2 → Up
12	Enable / Disable Rain Detection	P2 → P2 → Down
13	Manual/Auto Debugging Rollback Function (Only mode 2 is valid)	P2 → Stop → Down
14	Downward Stall Detection Rollback Function (Sensitive stall detection)	P2 → Down → Down

ADDITIONAL FEATURES

REGULAR FEATURES:

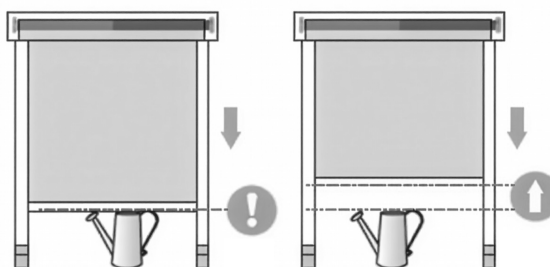
- Electric Limit
- Jog Mode
- Solar Charging
- Preferred Stop Position
- Switch Direction
- Program Button
- Radio Lock
- Built-in Receiver
- Built-in Lithium Battery
- Speed Regulation

APP CONTROL FEATURES:

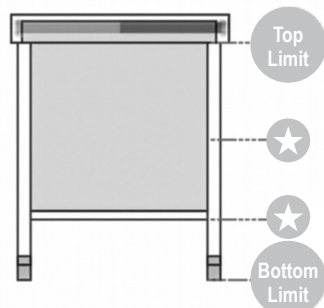
- Battery Check
- Status Feedback
- Scene Control
- Percentage Control
- Timer
- Scan & Program



**Battery Capacity
Feedback**



Super Reliable Stall Detection



Multiple Stop Positions

SAFETY NOTE

- This appliance should only be used once you have read the instructions concerning use of the appliance in a safe way and understand the hazards involved.
- Do not allow Children to play with appliance or controls. Keep the remote controls away from children.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified person in order to avoid a hazard (direct wired motors only).
- The drive shall be disconnected from its power source during cleaning, maintenance and when replacing parts.
- Only use this appliance for the purpose the appliance is intended for.
- Frequently examine the installation for imbalance and signs of wear or damage to cables and springs. Do not use if repair or adjustment is necessary.
- Working temperature is -10°C to 55°C degrees.

1. Before you install this blind please ensure the battery has been charged for minimum of 6 continuous hours.

The blind comes charged only enough to pair the remotes. If battery is not fully charged once installed or prior to installation the blind will stop. It will need to be charged for a minimum of 6 continuous hours. Thereafter the below applies.

At any of the below stages the motor on the blind needs charging:

- 1) A Buzzer is heard when the motor is running or:
- 2) A Buzzer is heard when the motor is not running or:
- 3) When a red light is frequently flashing or:
- 4) When the motor will not operate and no lights flashing

The motor MUST BE fully charged every 6 months regardless of usage.

2. Do not operate blinds when the red light is flashing, put the blind on charge.

Windoware™ only charges the battery enough to pair the remotes as per the request on the order. The limits however need to be set by the installer and the battery must be charged 6 hours either on site or before installation.



Li-ion



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